GW - 023

REPORTS

Year(s)

Closure Report 1/29/2007

Chavez, Carl J, EMNRD

From:Weathers, Stephen W [SWWeathers@dcpmidstream.com]Sent:Friday, September 12, 2008 2:15 PMTo:Chavez, Carl J,'EMNRDSubject: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 Remedation/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: <u>CarlJ.Chavez@state.nm.us</u> Website: <u>http://www.emnrd.state.nm.us/ocd/</u>index.htm (Pollution Prevention Guidance is under "Publications")

From: Weathers, Stephen W [mailto:SWWeathers@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.

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

This inbound email has been scanned by the MessageLabs Email Security System.

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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 <u>mike.bratcher@state.nm.us</u>

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

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	Santa Fe, NM 87505	office
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I hereby certify that the information above is true and complete to the be has been/will be constructed ar closed according to NMOCD guidels Date: <u>10/M/06</u> Printed Name/Title <u>Stephen</u> <u>Wegthers</u> <u>/SrEnu Spec</u> Your certification and NMOCD approval of this application/closure does	acs [2], a general permit [1], or an (attached :	a) alteruntive OCD-approved plan [].
otherwise endanger public health or the environment. Nor does it relieve regulations.		

Approval: Printed Name Title	Grotcher	AST TSigna	nure <u>Mile Are</u>	within 0	ave: 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 <u>mike.bratcher@state.nm.us</u>

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

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** TOTAL PAGE.02 **



2135 S. Loop 250West 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

Told Wells

Todd Wells Project Manager

hand larger

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 ...t •_____

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Operator: Duke Energy Field Seru Address: 1925 Illinois Camp Road Facility or well name; Artesia Gas Plant County: Eddy Surface Owner: Foderal I State I Private I Indian I		· · ·
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Date: 10/10/0.6 Printed Name/Title <u>Stephen</u> <u>Deg Mers</u> / <u>Ser</u> Your certification and NMOCD approval of this application otherwise endanger public health or the environment. Nor d regulations.	closure does not relieve the operator of liability should the	contents of the pit or tank contaminate ground water or
Approval: Printed Name/Title	Signature	

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

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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

> 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

OCTOBER 24, 2006 Ref. no. 043995 (3)

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

• * *

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 IÌ and laboratory reports are in APPENDIX A.

4.0 <u>SOIL REMEDIATION AND FINAL CONFIRMATION SAMPLING</u> <u>ACTIVITIES</u>

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.

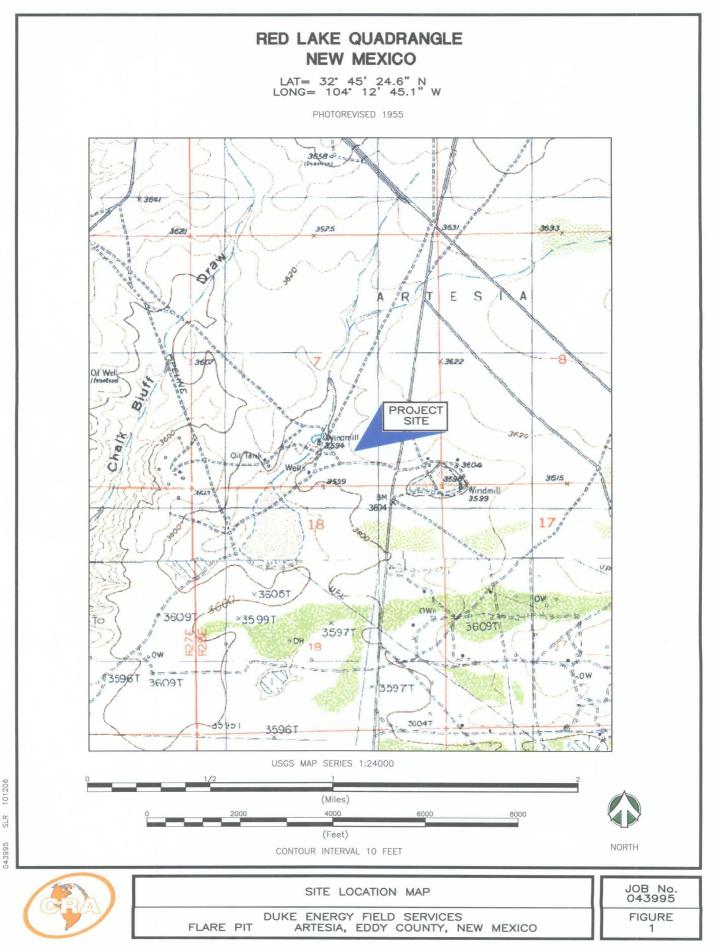
All of Which is Respectfully Submitted, Conestoga-Rovers & Associates

Tool Vells

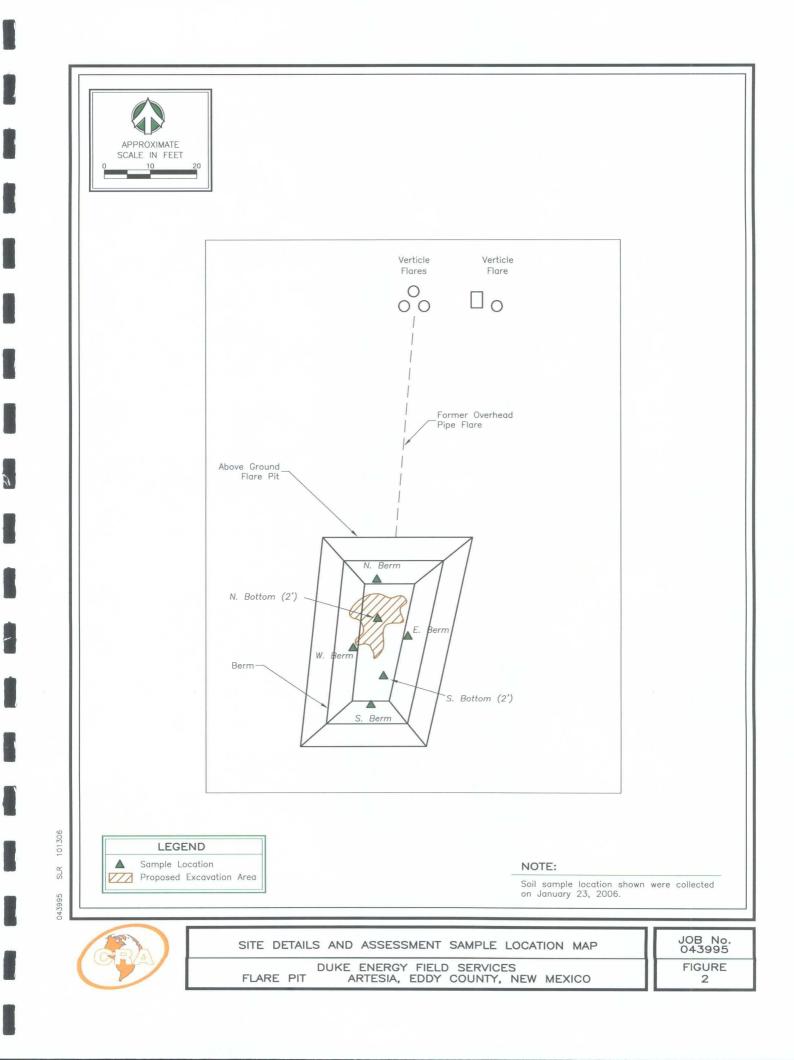
Todd Wells Project Manager

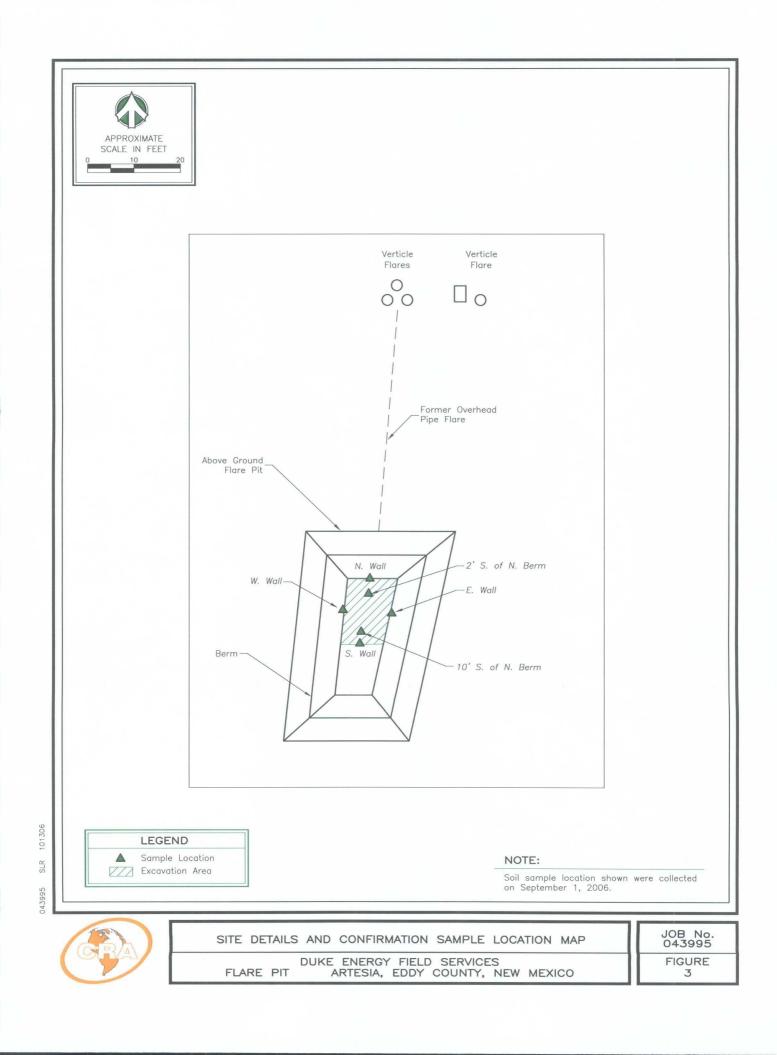
Thomas Clayon

Thomas C. Larson Operations Manager



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SUMMARY OF SOIL ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT (BTEX/TPH) DUKE ENERGY FIELD SERVICES ARTESIA FLARE PIT **TABLE I**

EDDY COUNTY, NEW MEXICO

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH DRO	TPH DRO TPH GRO	TOTAL TPH DRO/GRO
					NMOCD RRALS	RRALs			
		10^{1}				501			100^{1}
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(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.

INITIAL SOIL ASSESSMENT (TOTAL METALS) SUMMARY OF SOIL ANALYTICAL RESULTS DUKE ENERGY FIELD SERVICES **ARTESIA FLARE PIT** TABLE II

EDDY COUNTY, NEW MEXICO

.

Sample ID	Date	Total Silver	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Selenium
					NMOCI	NMOCD RRALs			
		3911	3.91	54501	391	10,0001	6.111	4001	3911
		(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:									

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

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

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Sample ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH DRO	TPH DRO TPH GRO	TOTAL TPH DRO/GRO
					NMOCD STANDARDS	ANDARDS			
		10^{1}	-	-	-	20_{1}			100^{1}
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
2' S. of N. Berm	00/01/00	<0.0100	0.0268	0.0110	0.0499	0.0877	<50.0	<1.00	<50.0
10' S. of N. Berm	90/01/00	<0.0100	0.0192	<0.0100	0.0263	0.0455	<50.0	<1.00	<50.0
S. Wall	00/01/06	<0.0100	0.0177	<0.0100	0.0235	0.0412	<50.0	<1.00	<50.0
E. Wall	90/01/00	<0.0100	0.0183	<0.0100	0.0245	0.0428	<50.0	<1.00	<50.0
W. Wall	00/01/06	<0.0100	0.0186	<0.0100	0.0220	0.0406	<50.0	<1.00	<50.0
N. Wall	90/01/00	<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

Results shown in mg/Kg
 BTEX analysis by EPA Method 8021B; TPH DRO/GRO by EPA Method 8015B modified.

4. Shaded areas indicated detection above regulatory limits.

APPENDIX A

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LABORATORY ANALYTICAL REPORTS

Summary Report

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

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Report Date: January 31, 2006

Work Order: 6012505

Project Location:Eddy County,NMProject Name:Duke-Artesia Flare PitProject Number:043995

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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

		1	BTEX	MTBE	TPH DRO	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(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	\mathbf{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 ...

Report Date: January 31, 2006	Work Order: 6012505	Page Number: 2 of 3
043995	Duke-Artesia Flare Pit	Eddy County,NM

sample 83010 continued ...

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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	\mathbf{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	\mathbf{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	Work Order: 6012505	Page Number: 3 of 3
043995	Duke-Artesia Flare Pit	Eddy County,NM

Sample: 83014 - S. Bottom

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Param	\mathbf{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.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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.

Michael about

Dr. Blair Leftwich, Director

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Analytical Report

Sample: 83009 - E. Berm

Analysis: BTEX		Analytical Method:		S 8021B		Prep Method: S 5035 Analyzed By: MT	
QC Batch: 24210	QC Batch: 24210		Date Analyzed: 2				
Prep Batch: 21279		Sample Pre	eparation:	2006-01-25		Prepared By: M	
		RI	- -				
Parameter	Flag	Resul	t	Units	D	ilution	RL
MTBE		< 0.010	0	mg/Kg		10	0.00100
Benzene		< 0.010	0	mg/Kg		10	0.00100
Toluene		< 0.010	0	mg/Kg		10	0.00100
Ethylbenzene		< 0.010	0	mg/Kg		10	0.00100
Xylene		< 0.010	0	mg/Kg		10	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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 Meta QC Batch: 24236	ls	Analytical Method: Date Analyzed:	S 6010B 2006-01-27	Prep Method: Analyzed By:	S 3050B RR
Prep Batch: 21286		Sample Preparation:	2006-01-26	Prepared By:	DS
Analysis: Total 8 Meta	ls	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch: 24289		Date Analyzed:	2006-01-30	Analyzed By:	ТР
Prep Batch: 21346		Sample Preparation:	2006-01-30	Prepared By:	ТР
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Total Silver		1.54	mg/Kg	1	0.200
Total Arsenic		<1.00	mg/Kg	l	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: QC Batch: Prep Batch:	Batch: 24274 Date Ana		: Mod. 8015B 2006-01-28 n: 2006-01-27	Analy	Method: N/A zed By: DS red By: DS
		RL			
Parameter	Flag	g Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Report Date: January 31, 2006 043995

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Work Order: 6012505 Duke-Artesia Flare Pit

Surrogate	Flag	Result	Units	т	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	-	173	mg/Kg		1	150	115	50 - 150
				<u> </u>				
Sample: 8300	09 - E. Berm							
Analysis:	TPH GRO		Analytica	al Method:	S 8015B		Prep Me	ethod: S 503
QC Batch:	24211		Date Ana		2006-01-25		Analyze	
Prep Batch:	21279		Sample F	Preparation:	: 2006-01-25		Prepare	d By: MT
			RL					
Parameter	Flag		Result		Units		Dilution	R
GRO			<1.00		mg/Kg		10	0.10
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue			0.902	mg/Kg	10	0.100	90	68 - 129.6
4-Bromofluor	robenzene (4-BFB)		0.784	mg/Kg	10	0.100	78	71.9 - 123.
Sample: 830	10 - S. Berm							
Analysis:	Analysis: BTEX			Method:	S 8021B		Prep M	
QC Batch:	24210		Date Analy		2006-01-25		Analyze	
Prep Batch:	21279		Sample Pre	eparation:	2006-01-25		Prepare	d By: MT
			RI					
		-	D ocui	t	Units		Dilution	R
	Flag		Resul			-		
MTBE	Flag		< 0.010	0	mg/Kg		10	
Parameter MTBE Benzene	Flag		<0.0100 <0.0100	0 0	mg/Kg mg/Kg		10 10	0.0010
MTBE Benzene Toluene			<0.0100 <0.0100 <0.0100	0 0 0	mg/Kg mg/Kg mg/Kg		10 10 10	0.0010 0.0010
MTBE Benzene Toluene Ethylbenzene			<0.0100 <0.0100 <0.0100 <0.0100	0 0 0 0	mg/Kg mg/Kg mg/Kg mg/Kg		10 10 10 10	0.0010 0.0010 0.0010
MTBE Benzene		<u>,</u>	<0.0100 <0.0100 <0.0100	0 0 0 0	mg/Kg mg/Kg mg/Kg		10 10 10	0.0010 0.0010 0.0010
MTBE Benzene Toluene Ethylbenzene Xylene			<0.0100 <0.0100 <0.0100 <0.0100 <0.0100	0 0 0 0 0	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Spike	10 10 10 10 10 10 Percent	0.0010 0.0010 0.0010 0.0010 Recovery
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate		Flag	<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result	0 0 0 0 0 0 Units	mg/Kg mg/Kg mg/Kg mg/Kg Dilution	Spike Amount	10 10 10 10 10 10 Percent Recovery	0.0010 0.0010 0.0010 0.0010 Recovery Limits
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue	ene (TFT)		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934	0 0 0 0 0 Units mg/Kg	mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10	Spike Amount 0.100	10 10 10 10 10 10 Percent Recovery 93	Limits 40.8 - 133.
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue			<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result	0 0 0 0 0 0 Units	mg/Kg mg/Kg mg/Kg mg/Kg Dilution	Spike Amount	10 10 10 10 10 10 Percent Recovery	0.0010 0.0010 0.0010 0.0010 Recovery Limits
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue	ene (TFT) robenzene (4-BFB)		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934	0 0 0 0 0 Units mg/Kg	mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10	Spike Amount 0.100	10 10 10 10 10 10 Percent Recovery 93	0.0010 0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133.
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue 4-Bromofluor	ene (TFT) robenzene (4-BFB)		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934 0.676	0 0 0 0 0 Units mg/Kg	mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10 10	Spike Amount 0.100	10 10 10 10 10 10 Percent Recovery 93	0.0010 0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133. 40.8 - 140.
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue 4-Bromofluor Sample: 830 Analysis:	ene (TFT) robenzene (4-BFB) 10 - S. Berm		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934 0.676	0 0 0 0 0 0 Units mg/Kg mg/Kg	mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10 10	Spike Amount 0.100	10 10 10 10 10 10 Percent Recovery 93 68	0.0010 0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133. 40.8 - 140.
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue 4-Bromofluor Sample: 830 Analysis: QC Batch:	ene (TFT) robenzene (4-BFB) 10 - S. Berm Total 8 Metals		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934 0.676 Analytic Date Ar	0 0 0 0 0 0 Units mg/Kg mg/Kg	mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10 10 10	Spike Amount 0.100	10 10 10 10 10 Percent Recovery 93 68 Prep Met	0.0010 0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133. 40.8 - 140.
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue 4-Bromofluor Sample: 830 Analysis: QC Batch: Prep Batch:	ene (TFT) robenzene (4-BFB) 10 - S. Berm Total 8 Metals 24236		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934 0.676 Analytic Date Ar Sample	0 0 0 0 0 0 <u>Units</u> mg/Kg mg/Kg cal Method nalyzed:	mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10 10 : S 6010B 2006-01-27 n: 2006-01-26	Spike Amount 0.100	10 10 10 10 10 Percent Recovery 93 68 Prep Met Analyzed	0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133. 40.8 - 140. hod: S 30501 By: RR By: DS
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue 4-Bromofluor Sample: 830 Analysis: QC Batch: Prep Batch: Analysis:	ene (TFT) robenzene (4-BFB) 10 - S. Berm Total 8 Metals 24236 21286		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934 0.676 Analytic Date Ar Sample	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10 10 : S 6010B 2006-01-27 n: 2006-01-26	Spike Amount 0.100	10 10 10 10 10 Percent Recovery 93 68 Prep Met Analyzed Prepared	0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133. 40.8 - 140. hod: S 3050 By: RR By: DS hod: N/A
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue 4-Bromofluor Sample: 830 Analysis: QC Batch: Prep Batch: Analysis: QC Batch:	ene (TFT) robenzene (4-BFB) 10 - S. Berm Total 8 Metals 24236 21286 Total 8 Metals		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934 0.676 Analytic Date Ar Sample Analytic Date Ar	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10 10 : S 6010B 2006-01-27 n: 2006-01-26 : S 7471A 2006-01-30	Spike Amount 0.100	10 10 10 10 10 Percent Recovery 93 68 Prep Met Analyzed Prepared Prep Met	0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133. 40.8 - 140. hod: S 3050 By: RR By: DS hod: N/A By: TP
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue 4-Bromofluor Sample: 830 Analysis: QC Batch: Prep Batch: Analysis: QC Batch:	ene (TFT) robenzene (4-BFB) 10 - S. Berm Total 8 Metals 24236 21286 Total 8 Metals 24289 21346	_ Flag	<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934 0.676 Analytic Date Ar Sample Analytic Date Ar Sample R	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10 10 10 : S 6010B 2006-01-27 n: 2006-01-26 : S 7471A 2006-01-30 n: 2006-01-30	Spike Amount 0.100 0.100	10 10 10 10 10 Percent Recovery 93 68 Prep Met Analyzed Prepared Prepared	0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133. 40.8 - 140. hod: S 3050 By: RR By: DS hod: N/A By: TP
MTBE Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue 4-Bromofluor Sample: 830 Analysis: QC Batch: Prep Batch: Analysis: QC Batch:	ene (TFT) robenzene (4-BFB) 10 - S. Berm Total 8 Metals 24236 21286 Total 8 Metals 24289 21346		<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Result 0.934 0.676 Analytic Date Ar Sample Analytic Date Ar Sample	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Dilution 10 10 : S 6010B 2006-01-27 n: 2006-01-26 : S 7471A 2006-01-30	Spike Amount 0.100 0.100	10 10 10 10 10 Percent Recovery 93 68 Prep Met Analyzed Prepared Prep Met Analyzed	0.0010 0.0010 0.0010 Recovery Limits 40.8 - 133. 40.8 - 140. hod: S 3050 By: RR By: DS hod: N/A By: TP

sample 83010 continued ...

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		RL			
Parameter	Flag	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: QC Batch: Prep Batch:	TPH DRO 24274 21330		Analytical Method: Date Analyzed: Sample Preparation	2006-01-28	3	Analy	Method: N/A zed By: DS red By: DS
Parameter	Fla	a	RL Result	Units		Dilution	RL
DRO	ria	g	<50.0	mg/Kg		1	50.0
Surrogate n-Triacontan	Flag	Result 172	Units D mg/Kg	Pilution	Spike Amount 150	Percent Recovery 114	Recovery Limits 50 - 150

Sample: 83010 - S. Berm

Analysis: QC Batch: Prep Batch:	TPH GRO 24211 21279		Date Ana	l Method: lyzed: reparation:	S 8015B 2006-01-25 2006-01-25		Prep Ma Analyza Prepare	ed By: MT
			RL					
Parameter	Flag		Result		Units	I	Dilution	RL
GRO			<1.00		mg/Kg		10	0.100
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ana (TET)	Tiag	0.929	mg/Kg	10	0.100	<u>93</u>	<u>68 - 129.6</u>
	probenzene (4-BFB)		0.781	mg/Kg mg/Kg	10	0.100	93 78	71.9 - 129.0

Sample: 83011 - W. Berm

Analysis: QC Batch: Prep Batch:	2		Analytical Method: Date Analyzed: Sample Preparation:	А	rep Method: S 5035 nalyzed By: MT repared By: MT	
			RL			
Parameter		Flag	Result	Units	Dilution	RL
MTBE			< 0.0100	mg/Kg	10	0.00100
					continued	

sample 83011 continued...

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		R	L				
Parameter F	lag	Resu	lt	Units	Ľ	Dilution	RL
Benzene		< 0.010	0	mg/Kg		10	0.00100
Toluene		< 0.010	0	mg/Kg		10	0.00100
Ethylbenzene <0.01		< 0.010	< 0.0100	mg/Kg		10	
Xylene		<0.010	0	mg/Kg		10	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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		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:	ТР
Prep Batch:	21346		Sample Preparation:	2006-01-30	Prepared By:	ТР
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Total Silver			1.20	mg/Kg	1	0.200
Total Arsenie	c		<1.00	mg/Kg	1	1.00
Total Barium	n		430	mg/Kg	1	1.00

Total Dallulli	430	mg/ Kg	L	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: QC Batch: Prep Batch:	TPH DRO 24274 21330		Analytical Metho Date Analyzed: Sample Preparat	2006-01-	28	Anal	Method: N/A yzed By: DS ared By: DS
_			RL				
Parameter	Fla	g	Result	Unit	s	Dilution	RL
DRO		· ·	<50.0	mg/Kg	g	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	205	mg/Kg	1	150	136	50 - 150

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043995	Duke-Artesia Flare Pit	Eddy County,NM
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Sample: 83011 - W. Berm

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Analysis: QC Batch: Prep Batch:	TPH GRO 24211 21279		Analytical Date Anal Sample Pi		S 8015B 2006-01-25 2006-01-25		•	ethod: S 5035 ed By: MT d By: MT
			RL					
Parameter	Flag		Result		Units	I	Dilution	RL
GRO	-		<1.00		mg/Kg		10	0.100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	iene (TFT)		0.932	mg/Kg	10	0.100	93	68 - 129.6
4-Bromofluc	orobenzene (4-BFB)		0.950	mg/Kg	10	0.100	95	71.9 - 123.7

Sample: 83012 - N. Berm

Analysis:BTEXQC Batch:24210Prep Batch:21279		Analytical Method: Date Analyzed: Sample Preparation:		S 8021B 2006-01-25 2006-01-25		Prep Method: Analyzed By: Prepared By:	
		RI	L				
Parameter	Flag	Resul	lt	Units	D	vilution	RL
MTBE	· · ·	< 0.010	0	mg/Kg		10	0.00100
Benzene		< 0.010	0	mg/Kg		10	0.00100
Toluene		< 0.010	0	mg/Kg		10	0.00100
Ethylbenzene		< 0.010	0	mg/Kg		10	0.00100
Kylene		<0.0100		mg/Kg		10	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	1.01	mg/Kg	10	0.100	101	40.8 - 133.7	
4-Bromofluorobenzene (4-	0.872	mg/Kg	10	0.100	87	40.8 - 140.1	

Sample: 83012 - N. Berm

QC Batch: 2 Prep Batch: 2 Analysis: 2 QC Batch: 2	Total 8 Metals 24236 21286 Total 8 Metals 24289 21346		Analytical Method: Date Analyzed: Sample Preparation: Analytical Method: Date Analyzed: Sample Preparation:	S 6010B 2006-01-27 2006-01-26 S 7471A 2006-01-30 2006-01-30	Prep Method: Analyzed By: Prepared By: Prep Method: Analyzed By: Prepared By:	DS N/A
			RL			
Parameter		Flag	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 Cadmiun	n		< 0.500	mg/Kg	1	0.500
Total Chromiu	ım		12.4	mg/Kg	1	1.00
Total Mercury	,		<0.0400	mg/Kg	1	0.0400

continued ...

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sample 83012 continued ...

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		RL			
Parameter	Flag	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: QC Batch: Prep Batch:	TPH DRO 24274 21330		Analytical Met Date Analyzed Sample Prepara	: 2006-01	-28	Analy	Method: N/A zed By: DS red By: DS
			RL				
Parameter	Fla	g	Result	Unit	s	Dilution	RL
DRO			<50.0	mg/K	g	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	;	197	mg/Kg	1	150	131	50 - 150

Sample: 83012 - N. Berm

Analysis: TPH GR QC Batch: 24211 Prep Batch: 21279	0		Date Ana	l Method: lyzed: reparation:	S 8015B 2006-01-25 2006-01-25		Prep Me Analyze Prepare	ed By: MT
			RL					
Parameter	Flag		Result		Units	I	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-Bromofluorobenzen	e (4-BFB)		1.01	mg/Kg	10	0.100	101	71.9 - 123.7

Sample: 83013 - N Bottom

Analysis: B7	ГЕХ	Analytical Method:	S 8021B	Prep M	ethod: S 5035
QC Batch: 24	210	Date Analyzed:	2006-01-25	Analyz	ed By: MT
Prep Batch: 21	279	Sample Preparation:	2006-01-25	Prepare	d By: MT
		RL			
Parameter	Flag	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		RI Resul		Units	D	oilution	RL	
Xylene	U		<0.0500		mg/Kg	50		0.00100	
~			.	TT 1 .		Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)		2	1.12	mg/Kg	50	0.100	22	40.8 - 133.7	
4-Bromofluorobenzene (4-BFI	3)	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:	ТР
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Total Silver			<0.200	mg/Kg	1	0.200
Total Arsenio	c		4.56	mg/Kg	1	1.00
Total Darium			50 5	ma/Ka	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

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Analysis: QC Batch:	TPH DRO 24292		Analytical Me Date Analyzed				Method: N/A yzed By: DS
Prep Batch:	21349		Sample Prepar	ration: 2006-01	-30	Prepa	ared By: DS
			RL				
Parameter	Fla	g	Result	Uni	ts	Dilution	RL
DRO	· ·		682	mg/K	g	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	e 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.

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			RL						
Parameter	Flag		Result		Units		Dilution	RL	
GRO	5		<5.00		mg/Kg	50		0.100	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)		6	1.17	mg/Kg	50	0.100	23	68 - 129.6	
4-Bromofluorobenzene (4-B	FB)	7	1.17	mg/Kg	50	0.100	23	71.9 - 123.7	

Sample: 83014 - S. Bottom

Analysis:BTEXQC Batch:24210Prep Batch:21279		Analytical Date Analy Sample Pre	/zed:	S 8021B 2006-01-25 2006-01-25	Prep Metho Analyzed I Prepared B		ed By: MT
		R	Ĺ				
Parameter Flag	ç	Resu	lt	Units	Ľ	Dilution	RL
MTBE		< 0.010	0	mg/Kg		10	0.00100
Benzene		< 0.010	0	mg/Kg		10	0.00100
Toluene		< 0.010	0	mg/Kg		10	0.00100
Ethylbenzene		< 0.010	0	mg/Kg		10	0.00100
Xylene		< 0.010	0	mg/Kg		10	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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 Meta	ls	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 Meta	ls	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch: 24289		Date Analyzed:	2006-01-30	Analyzed By:	ТР
Prep Batch: 21346		Sample Preparation:	2006-01-30	Prepared By:	ТР
		RL			
Parameter	Flag	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	I	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.

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Sample: 83014 - S. Bottom

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Analysis: QC Batch: Prep Batch:	QC Batch: 24274		Analytical Metho Date Analyzed: Sample Preparatio	2006-01-2	28	Analy	Method: N/A zed By: DS red By: DS
Daramatar	Flo	~	RL Result	Units		Dilution	RL
Parameter	Fla	<u>g</u>					
DRO			<50.0	mg/Kg	5	I	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	e	198	mg/Kg	1	150	132	50 - 150

Sample: 83014 - S. Bottom

Analysis: QC Batch: Prep Batch:	C Batch: 24211 Date Analyzed:		lyzed:	S 8015B 2006-01-25 2006-01-25		ethod: S 5035 ed By: MT d By: MT			
			RL						
Parameter Flag		Result		Units	Dilution		RL		
GRO			<1.00				10		
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotolu	ene (TFT)	1 145	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

			MD	L			
Parameter	Flag		Resu	lt	Units	5	RL
MTBE			< 0.015	2	mg/Kg		
Benzene	< 0.00333			mg/K	g	0.001	
Toluene	< 0.00353			mg/K	g	0.001	
Ethylbenzene	< 0.00339			mg/K	0.001		
Xylene		<0.0103			mg/K	0.001	
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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

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

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		Smilto	Darcont	Decevery

					бріке	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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

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		MDL		
Parameter	Flag	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

				MDL				
Parameter		Flag		Result	U	nits	RL	
DRO				<12.0		mg/Kg		
					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
n-Triacontane		185	mg/Kg	1	150	123	50 - 150	

Method Blank (1) QC Batch: 24289

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

Method Blank (1) QC Batch: 24292

				MDL			
Parameter Flag			Result	τ	Units		
DRO				<10.9	m	50	
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		144	mg/Kg	1	150	96	57.5 - 139

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

Report Date: Janu 043995		Work Order: 6012505 Duke-Artesia Flare Pit					Page Number: 12 of 18 Eddy County,NM			
D	LCS	LCSD	T T 1 4-	D:1	Spike	Matrix	D		Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	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

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	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	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

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
DRO	246	248	mg/Kg	1	250	<12.0	98	1	70 - 130	20
Percent reco	very is based or	the snike re	esult RPD is	based on	the spike and	snike dunlica	te result			

continued ...

Report Date: January 043995	7 31, 2006			rder: 60125 rtesia Flare		Page Number: 13 of 18 Eddy County,NM			
control spikes continu	ued LCS	LCSD			Spike	LCS	LCSD	Rec.	
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit	
	LCS	LCSD			Spike	LCS	LCSD	Rec.	
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit	
n-Triacontane	186	189	mg/Kg	1	150	124	126	50 - 150	

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

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	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	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

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	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

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	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:

		MS	MSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	191	208	mg/Kg	1	150	127	139	50 - 150

Matrix Spike (MS-1)

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QC Batch: 24289 Spiked Sample: 82895

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	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.

MS Result 595	MSD				Ec	ldy County,NI
Result	MSD		Spike	MS	MSD	Rec.
595	Result Ur	nits Dil.	Amount	Rec.	Rec.	Limit
575	598 mg	/Kg 1	150	397	399	57.5 - 13
atch: 24210						
	ICVs	ICVs	ICVs	Perc	ent	
	True	Found	Percent	Reco	very	Date
Units	Conc.	Conc.	Recovery	Lin	nits	Analyzed
mg/Kg	0.100	0.0895	90	85 -	115	2006-01-2
	0.100	0.0987	99	85 -	115	2006-01-2
		0.103	103	85 -	115	2006-01-2
		0.100				2006-01-2
						2006-01-2
Batch: 24210						
	CCVs	CCVs	CCVs	Perc	ent	
	True	Found	Percent	Reco	very	Date
Units	Conc.	Conc.	Recovery	Lin	nits	Analyzed
mg/Kg		0.0957				2006-01-2
						2006-01-2
						2006-01-2
						2006-01-2
						2006-01-2
aten. 24211	ICVs	ICVs	ICVs	Perce	nt	
						Date
Linite						Analyzed
mg/L	1.00	0.938	90	85 - 1	15	2006-01-2
Batch: 24211						
	CCVs	CCVs	CCVs	Perce	nt	
	True	Found	Percent	Recov		Date
					,	
Units	Conc.	Conc.	Recovery	Limi	ts	Analyzed
	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ICVs True Units Conc. mg/Kg 0.100 mg/Kg 0.300 Batch: 24210 CCVs True Units Conc. mg/Kg 0.100 mg/Kg 0.300 Batch: 24211 Batch: 24211	ICVs ICVs True Found Units Conc. Conc. mg/Kg 0.100 0.0895 mg/Kg 0.100 0.103 mg/Kg 0.100 0.103 mg/Kg 0.100 0.103 mg/Kg 0.100 0.100 mg/Kg 0.300 0.301 Batch: 24210 Batch: 24210 CCVs CCVs Mg/Kg 0.100 0.0957 mg/Kg 0.100 0.0957 mg/Kg 0.100 0.0968 mg/Kg 0.100 0.0968 mg/Kg 0.100 0.0981 mg/Kg 0.300 0.294 Found Units Conc. Conc. Img/L I.00 0.958 Batch: 24211	ICVs ICVs ICVs Percent Units Conc. Conc. Recovery mg/Kg 0.100 0.0895 90 mg/Kg 0.100 0.0987 99 mg/Kg 0.100 0.103 103 mg/Kg 0.100 0.100 100 mg/Kg 0.300 0.301 100 Batch: 24210 CCVs CCVs CCVs Batch: 24210 Conc. Conc. Recovery mg/Kg 0.100 0.0957 96 mg/Kg 0.100 0.0957 96 mg/Kg 0.100 0.0957 96 mg/Kg 0.100 0.0968 97 mg/Kg 0.100 0.0981 98 mg/Kg 0.300 0.294 98 watch: 24211 ICVs ICVs ICVs Batch: 24211 1.00 0.958 96	ICVs ICVs ICVs ICVs Percent Reco Units Conc. Conc. Recovery Lim mg/Kg 0.100 0.0895 90 85 - mg/Kg 0.100 0.0987 99 85 - mg/Kg 0.100 0.103 103 85 - mg/Kg 0.100 0.100 100 85 - mg/Kg 0.300 0.301 100 85 - mg/Kg 0.100 0.0957 96 85 - mg/Kg 0.100 0.0957 96 85 - mg/Kg 0.100 0.0968 97 85 - mg/Kg 0.100 0.0981 98 85 - mg/Kg 0.100 </td <td>ICVs ICVs ICVs ICVs Percent Recovery Units Conc. Conc. Recovery Limits mg/Kg 0.100 0.0895 90 85 - 115 mg/Kg 0.100 0.0987 99 85 - 115 mg/Kg 0.100 0.103 103 85 - 115 mg/Kg 0.100 0.100 100 85 - 115 mg/Kg 0.300 0.301 100 85 - 115 Batch: 24210 CCVs CCVs Percent Recovery Units Conc. Conc. Recovery Limits mg/Kg 0.100 0.0957 96 85 - 115 mg/Kg 0.100 0.0981 98 85 - 115 mg/Kg 0.100 0.0981 98 85 -</td>	ICVs ICVs ICVs ICVs Percent Recovery Units Conc. Conc. Recovery Limits mg/Kg 0.100 0.0895 90 85 - 115 mg/Kg 0.100 0.0987 99 85 - 115 mg/Kg 0.100 0.103 103 85 - 115 mg/Kg 0.100 0.100 100 85 - 115 mg/Kg 0.300 0.301 100 85 - 115 Batch: 24210 CCVs CCVs Percent Recovery Units Conc. Conc. Recovery Limits mg/Kg 0.100 0.0957 96 85 - 115 mg/Kg 0.100 0.0981 98 85 - 115 mg/Kg 0.100 0.0981 98 85 -

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¹²High surrogate recovery due to peak interference.
 ¹³High surrogate recovery due to peak interference.

Report Date: January 31, 2006		c Order: 601250	Page Number: 16 of 18		
043995		e-Artesia Flare P	Eddy County,NM		
standard continued	ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date

			nue	rouna	reicent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

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			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

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

Standard (CCV-1) QC Batch: 24274

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

Standard (ICV-1) QC Batch: 24289

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

Standard (CCV-1) QC Batch: 24289

Report Date: January 31, 2006 043995			Work Order: 6012505 Duke-Artesia Flare Pit			Page Number: 17 of 18 Eddy County,NM		
				CCVs	CCVs	CCVs Demost	Percent	Date
Param		Flag	Units	True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed
Total Mer	cury	1 lug	mg/L	0.00500	0.00493	99	80 - 120	2006-01-30
Standard	(ICV-1)	QC Bate	h: 24292					
				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag		Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO			ng/Kg	250	247	99	57.5 - 139	2006-01-30
Standard	(CCV-1)	QC Bate	ch: 24292					
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag		Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	ng/Kg	250	248	99	57.5 - 139	2006-01-30

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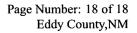
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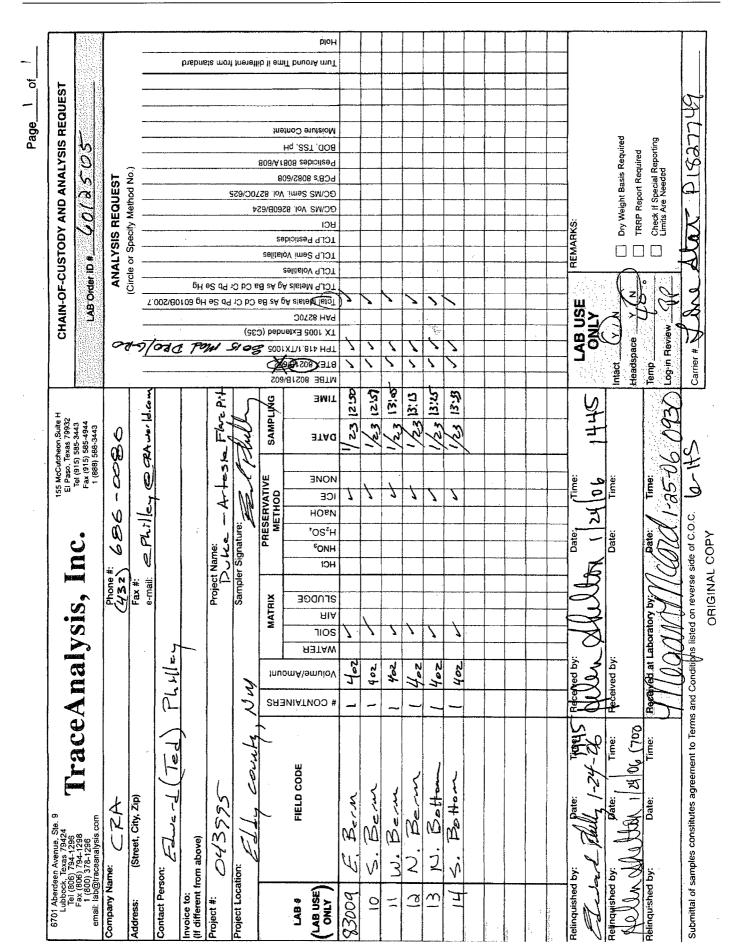
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Summary Report

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

Report Date: February 17, 2006

Work Order: 6012505

Project Location:Eddy County,NMProject Name:Duke-Artesia Flare PitProject Number:043995

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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	$\rm mm/yr$	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 \bullet

Report Date: February 17, 2006 043995		Work Order: 6012505 Duke-Artesia Flare Pit	Page Number: 2 of 2 Eddy County,NM	
Param	Flag	\mathbf{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

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Param	Flag	Result	Units	RL
Reactivity		non-reactive		0.00
Hydrogen Sulfide		< 10.0	m 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	\mathbf{Flag}	Result	Units	\mathbf{RL}
Reactivity		non-reactive		0.00
Hydrogen Sulfide		< 10.0	mg/Kg	10.0
Hydrogen Cyanide		$<\!\!2.50$	mg/Kg	2.50
Corrosivity		${f non-corrosive}$	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,NMProject Name:Duke-Artesia Flare PitProject Number:043995

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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.

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Dr. Blair Leftwich, Director

Report Date: February 17, 2006 043995

Work Order: 6012505 Duke-Artesia Flare Pit

Analytical Report

Sample: 83009 - E. Berm

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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

		RL			
Parameter	Flag	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

		RL			
Parameter	Flag	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

		RL			
Parameter	Flag	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 •

Report Date: February 17, 2006	Work Order: 6012505	Page Number: 3 of 5
043995	Duke-Artesia Flare Pit	Eddy County,NM

sample 83011 continued...

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		RL			
Parameter	Flag	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	Analy	yzed By: SD
Prep Batch: 21688	Sample Preparation:	2006-02-16	Prepa	red 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
		RL		
Parameter	Flag H	Result Units	Dilution	RL
Reactivity	non-rea	ictive	1	0.00
Hydrogen Sulfide		<10.0 mg/Kg	1	10.0
Hydrogen Cyanide	•	<2.50 mg/Kg	1	2.50
Corrosivity	non-cori	osive mm/yr	1	0.00
рН	4	7.00 s.u.	1	0.00
Ignitability	non-igni	table	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

		RL			
Parameter	Flag	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

³ ph taken by ph paper due to sample conditions
 ⁴ ph taken by ph paper due to sample conditions
 ⁵ ph taken by ph paper due to sample conditions

Report Date: February 17, 2006	Work Order: 6012505	Page Number: 4 of 5
043995	Duke-Artesia Flare Pit	Eddy County,NM

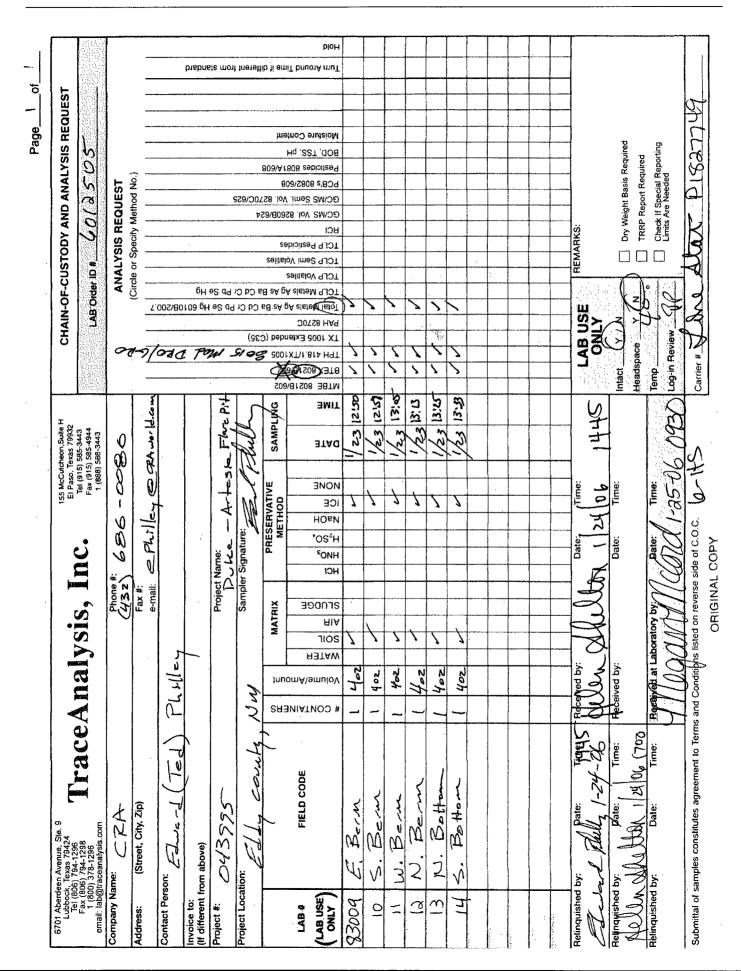
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Reactivity		non-reactive		1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
pH	6	7.00	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Duplicate (1) QC Batch: 24682

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		Duplicate	Sample				RPD
Param		Result	Result	Units	Dilution	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
рН	7	7.00	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 •



Summary Report

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

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Report Date: September 7, 2006

Work Order: 6090504

Project Location:Eddy County, NMProject Name:Duke Artesia Flair PitProject Number:043995

a 1		36.1.1	Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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

		I	BTEX	MTBE	TPH DRO	TPH GRO	
	Benzene	Toluene	Ethylbenzene	MTBE	DRO	GRO	
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(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, NMProject Name:Duke Artesia Flair PitProject Number:043995

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

		-	Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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.

Michael about

Dr. Blair Leftwich, Director

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Analytical Report

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

Analysis:BTEXQC Batch:29719Prep Batch:25912		Analytical I Date Analy Sample Pre	zed:	S 8021B 2006-09-06 2006-09-05		Prep Meth Analyzed Prepared I	By: LO
		RI					
Parameter Flag		Resul	t	Units	Di	ilution	RL
Benzene		< 0.0100)	mg/Kg		1	0.0100
Toluene		0.0268	8	mg/Kg		1	0.0100
Ethylbenzene		0.011)	mg/Kg		1	0.0100
Xylene		0.049	9	mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.792	mg/K	g 1	1.00	79	75 - 125
4-Bromofluorobenzene (4-BFB)		0.923	mg/K	g 1	1.00	92	75 - 125

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

Analysis:	TPH DRO		Analytical M	ethod: Mod. 80	15B	Prep I	Method: N/A
QC Batch:	29717		Date Analyze	ed: 2006-09	-05	Analy	zed By: AG
Prep Batch:	25911		Sample Prepa	aration: 2006-09	-05	Prepa	red By: AG
			RL				
Parameter	Fla	g	Result	Uni	ts	Dilution	RL
DRO			<50.0	mg/K	g	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontand	e1	220	mg/Kg	1	150	147	70 - 130

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

Analysis: QC Batch: Prep Batch:	TPH GRO 29722 25912		Analytical Date Anal Sample Pr	yzed:	S 8015B 2006-09-05 2006-09-05		Prep Meth Analyzed Prepared I	•
			RL					
Parameter	Flag		Result		Units	D	vilution	RL
GRO			<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	iene (TFT)		0.695	mg/Kg	1	1.00	70	70 - 130
4-Bromofluc	orobenzene (4-BFB)		1.27	mg/Kg	1	1.00	127	70 - 130

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

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

Analysis:BTEXQC Batch:29719Prep Batch:25912			Analytical M Date Analyz Sample Prep	zed:	S 8021B 2006-09-06 2006-09-05		Prep Meth Analyzed Prepared I	By: LO
			RL					
Parameter	Flag		Result	t	Units	Di	lution	RL
Benzene			< 0.0100)	mg/Kg		1	0.0100
Toluene			0.0192	2	mg/Kg		1	0.0100
Ethylbenzene			< 0.0100)	mg/Kg		1	0.0100
Xylene			0.0263	i	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.828	mg/Kg	g 1	1.00	83	75 - 125
4-Bromofluorobenzene (4-E	BFB)		0.886	mg/Kg	g 1	1.00	89	75 - 125

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

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Analysis: QC Batch: Prep Batch:	TPH DRO 29717 25911		Analytical Me Date Analyzed Sample Prepar	l: 2006-09-	.05	Analy	Method: N/A zed By: AG red By: AG
			RL				
Parameter	Fla	ng	Result	Unit	S	Dilution	RL
DRO			<50.0	mg/K	g	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	e 2	234	mg/Kg	1	150	156	70 - 130

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

Analysis: QC Batch: Prep Batch:	QC Batch: 29722		Analytical Date Analy Sample Pre	zed:	S 8015B 2006-09-05 2006-09-05		od: S 5035 By: LO By: LO	
			RL			_		
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)	3	0.690	mg/Kg	1	1.00	69	70 - 130
	robenzene (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.

043995	Date: September 7, 2006				ler: 6090504 esia Flair Pit			umber: 4 of 13 y County, NN	
Sample: 101	981 - S. Wall								
Analysis:	BTEX			Analytical N	lethod:	S 8021B		Prep Met	hod: S 5035
QC Batch:	29719			Date Analyz		2006-09-06		Analyzed	
Prep Batch:	25912			Sample Prep		2006-09-05		Prepared	
				RL					
Parameter		Flag		Result		Units]	Dilution	RI
Benzene				< 0.0100		mg/Kg		1	0.0100
Toluene				0.0177		mg/Kg		1	0.0100
Ethylbenzene	;			<0.0100		mg/Kg		1	0.010
Xylene				0.0235		mg/Kg		1	0.0100
a				. .	 .		Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue				0.786	mg/Kg		1.00	79	75 - 125
4-Bromotluor	robenzene (4-1	BFB)		0.883	mg/Kg	1	1.00	88	75 - 125
	TPH DRO				l Method:	Mod. 8015B		Prep M	
QC Batch:	TPH DRO 29717 25911			Date Ana Sample P		2006-09-05		Prep N Analyz Prepare	ed By: AG
QC Batch: Prep Batch:	29717	Flag		Date Ana Sample P RL	lyzed:	2006-09-05		Analyz Prepare	zed By: AG ed By: AG
QC Batch: Prep Batch: Parameter	29717	Flag		Date Ana Sample P	lyzed:	2006-09-05 : 2006-09-05		Analyz	zed By: AG ed By: AG RI
QC Batch: Prep Batch: Parameter	29717	Flag		Date Ana Sample P RL Result	lyzed:	2006-09-05 2006-09-05 Units	Spike	Analyz Prepare Dilution	ed By: AG
QC Batch: Prep Batch: Parameter DRO	29717		Result	Date Ana Sample P RL Result	lyzed: reparation	2006-09-05 2006-09-05 Units		Analyz Prepare Dilution	zed By: AG ed By: AG RI 50.0
QC Batch: Prep Batch: Parameter DRO Surrogate	29717 25911 Flag		Result 236	Date Ana Sample P RL Result <50.0	lyzed: reparation	2006-09-05 : 2006-09-05 Units mg/Kg	Spike	Analyz Prepare Dilution I Percent	red By: AG ed By: AG RI 50.0 Recovery
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 101 Analysis: QC Batch:	29717 25911 Flag			Date Ana Sample P RL Result <50.0 Units	lyzed: reparation E Wethod: yzed:	2006-09-05 2006-09-05 Units mg/Kg Dilution 1 S 8015B 2006-09-05	Spike Amount	Analyz Prepare Dilution I Percent Recovery	ed By: AG ed By: AG RI 50.0 Recovery Limits 70 - 130 hod: S 503: By: LO
Analysis: QC Batch: Prep Batch:	29717 25911 Flag 25911 981 - S. Wall TPH GRO 29722	3		Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL	lyzed: reparation E Wethod: yzed:	2006-09-05 2006-09-05 Units mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05	Spike Amount 150	Analyz Prepard Dilution 1 Percent Recovery 157 Prep Met Analyzed Prepared	ed By: AG ed By: AG <u>RI</u> 50.0 Recovery Limits 70 - 130 hod: S 503: By: LO By: LO
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontance Sample: 101 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	29717 25911 Flag 25911 981 - S. Wall TPH GRO 29722			Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result	lyzed: reparation E Wethod: yzed:	2006-09-05 2006-09-05 Units mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05 2006-09-05 Units	Spike Amount 150	Analyz Prepard Dilution 1 Percent Recovery 157 Prep Met Analyzed Prepared Dilution	ed By: AG ed By: AG RI 50. Recover Limits 70 - 130 hod: S 503 By: LO By: LO By: LO
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 101 Analysis: QC Batch:	29717 25911 Flag 25911 981 - S. Wall TPH GRO 29722	3		Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL	lyzed: reparation E Wethod: yzed:	2006-09-05 2006-09-05 Units mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05	Spike Amount 150	Analyz Prepard Dilution 1 Percent Recovery 157 Prep Met Analyzed Prepared Dilution 1	ed By: AG ed By: AG RI 50.0 Recovery Limits 70 - 130 hod: S 503: By: LO By: LO By: LO RI 1.0
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 101 Analysis: QC Batch: Prep Batch: Parameter GRO	29717 25911 Flag 25911 981 - S. Wall TPH GRO 29722	3	236	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result <1.00	lyzed: reparation E Wethod: yzed:	2006-09-05 2006-09-05 Units mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05 2006-09-05 Units	Spike Amount 150 Spike	Analyz Prepard Dilution 1 Percent Recovery 157 Prep Mett Analyzed Prepared Dilution 1 Percent	ed By: AG ed By: AG RI 50.0 Recovery Limits 70 - 130 hod: S 503: By: LO By: LO RI 1.0 Recovery
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontance Sample: 101 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	29717 25911 Flag 3 4 981 - S. Wall TPH GRO 29722 25912	3		Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result	lyzed: reparation E Method: yzed: eparation:	2006-09-05 2006-09-05 Units mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05 2006-09-05 Units mg/Kg	Spike Amount 150	Analyz Prepard Dilution 1 Percent Recovery 157 Prep Met Analyzed Prepared Dilution 1	ed By: AG ed By: AG RI 50. Recover Limits 70 - 130 hod: S 503 By: LO By: LO By: LO R C R 1.0

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

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	Work Order: 6090504 Duke Artesia Flair Pit			Page Number: 5 of 12 Eddy County, NM			
82 - E. Wall							
BTEX		Analytical N	Method:	S 8021B		Prep Meth	od: S 5035
29719		Date Analyz	zed:	2006-09-06		Analyzed	By: LO
25912		Sample Prep	paration:	2006-09-05		Prepared I	By: LO
		RL	<i>.</i>				
Flag				Units	Di	lution	RI
	-	< 0.0100)	mg/Kg		1	0.010
		0.0183	3	mg/Kg		1	0.0100
		< 0.0100)	mg/Kg		1	0.0100
		0.0245	5	mg/Kg	.	1	0.010
					Spike	Percent	Recover
	Flag	Result	Units	Dilution	Amount	Recovery	Limits
e (TFT)		0.786	mg/Kg	1	1.00	79	75 - 125
benzene (4-BFB)		0.883	mg/Kg	1	1.00	88	75 - 125
	BTEX 19719 15912 Flag e (TFT)	BTEX 19719 15912 Flag Flag e (TFT)	BTEX Analytical M 19719 Date Analytical M 19719 Sample Prep 15912 Sample Prep RI Flag Result <0.0100 0.0183 <0.0100 0.0245 Flag Result e (TFT) 0.786	BTEX Analytical Method: 19719 Date Analyzed: 15912 Sample Preparation: RL Flag Result <0.0100 0.0183 <0.0100 0.0245 Flag Result Units e (TFT) 0.786 mg/Kg	BTEX Analytical Method: S 8021B 19719 Date Analyzed: 2006-09-06 15912 Sample Preparation: 2006-09-05 RL Flag Result Units <0.0100	BTEX Analytical Method: S 8021B 19719 Date Analyzed: 2006-09-06 15912 Sample Preparation: 2006-09-05 RL Image: Constraint of the state of the st	BTEXAnalytical Method:S $8021B$ Prep Method:9719Date Analyzed: $2006-09-06$ Analyzed5912Sample Preparation: $2006-09-05$ Prepared HRLFlagResultUnitsDilution<0.0100

n-Triacontane	e ⁵	227	mg/Kg	1	150	151	70 - 130
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
					Spike	Percent	Recovery
DRO			<50.0	mg/K	g	1	50.0
Parameter	Fla	ıg	Result	Unit	S	Dilution	RL
			RL				
Prep Batch:	25911		Sample Prepar	ation: 2006-09-	-05	Prepar	red By: AG
QC Batch:	29717		Date Analyzed	: 2006-09-	-05	•	zed By: AG
Analysis:	IPHDKU		Analytical Met	mou, mou, ou	150	перт	Methou. IN/A

Sample: 101982 - E. Wall

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Analysis: QC Batch: Prep Batch:	TPH GRO 29722 25912		Analytical Date Analy Sample Pr	yzed:	S 8015B 2006-09-05 2006-09-05		Prep Meth Analyzed Prepared I	By: LO
I			RL	- P		5	ľ	5
Parameter	Fla	ng	Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.773	mg/Kg	1	1.00	77	70 - 130
	orobenzene (4-BFB)	1.21	mg/Kg	1	1.00	121	70 - 130

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

Report Date: 043995	September	r 7, 2006				er: 6090504 esia Flair Pit			mber: 6 of 12 y County, NM
Sample: 101	983 - W. W	Vall							
Analysis:	BTEX			Analytical M	Aethod:	S 8021B		Prep Meth	nod: S 5035
QC Batch:	29719			Date Analyz	zed:	2006-09-06		Analyzed	By: LO
Prep Batch:	25912			Sample Prep	paration:	2006-09-05		Prepared 1	By: LO
				RL	,				
Parameter		Flag		Result	t [.]	Units]	Dilution	RI
Benzene				< 0.0100		mg/Kg		1	0.0100
Toluene				0.0186		mg/Kg		1	0.010
Ethylbenzene	e			<0.0100		mg/Kg		1	0.0100
Xylene				0.0220)	mg/Kg		1	0.010
							Spike	Percent	Recover
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)			0.782	mg/Kg	1	1.00	78	75 - 125
4-Bromofluor	robenzene	(4-BFB)		0.870	mg/Kg	1	1.00	87	75 - 125
-								D. M	
•	TPH DRC				al Method: alvzed:	Mod. 8015B 2006-09-05		Prep M Analyz	
Analysis: QC Batch:				Date Ana		2006-09-05		Prep M Analyz Prepare	ed By: AG
Analysis: QC Batch:	TPH DRC 29717)		Date Ana Sample P RL	lyzed:	2006-09-05 2006-09-05		Analyz Prepare	ed By: AG
Analysis: QC Batch: Prep Batch: Parameter	TPH DRC 29717			Date Ana Sample P RL Result	lyzed:	2006-09-05 2006-09-05 Units		Analyz	ed By: AG ed By: AG RI
Analysis: QC Batch: Prep Batch: Parameter	TPH DRC 29717)		Date Ana Sample P RL	lyzed:	2006-09-05 2006-09-05		Analyz Prepare	ed By: AG ed By: AG
Analysis: QC Batch: Prep Batch: Parameter	TPH DRC 29717 25911) Flag		Date Ana Sample P RL Result	ilyzed: reparation:	2006-09-05 2006-09-05 Units mg/Kg	Spike	Analyz Prepare Dilution 1 Percent	ed By: AG ed By: AG RI 50.0 Recover
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate	TPH DRC 29717 25911	Flag Flag	Result	Date Ana Sample P RL Result <50.0 Units	ilyzed: reparation:	2006-09-05 2006-09-05 <u>Units</u> mg/Kg	Spike Amount	Analyz Prepare Dilution 1 Percent Recovery	ed By: AG ed By: AG RI 50.0 Recover Limits
Sample: 101 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane	TPH DRC 29717 25911) Flag	Result 231	Date Ana Sample P RL Result <50.0	ilyzed: reparation:	2006-09-05 2006-09-05 Units mg/Kg	Spike	Analyz Prepare Dilution 1 Percent	ed By: AG ed By: AG RI 50.0 Recover
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane	TPH DRC 29717 25911 	Flag Flag 6		Date Ana Sample P RL Result <50.0 Units	ilyzed: reparation:	2006-09-05 2006-09-05 <u>Units</u> mg/Kg	Spike Amount	Analyz Prepare Dilution 1 Percent Recovery	ed By: AG ed By: AG RI 50.1 Recover Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 101 Analysis:	TPH DRC 29717 25911 He 983 - W. W TPH GRC	Flag Flag 6 Valt		Date Ana Sample P RL Result <50.0 Units mg/Kg	lyzed: Preparation: D	2006-09-05 2006-09-05 Units mg/Kg vilution 1 S 8015B	Spike Amount	Analyz Prepare Dilution 1 Percent Recovery 154 Prep Meth	ed By: AG ed By: AG RI 50.0 Recover Limits 70 - 130
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 101 Analysis: QC Batch:	TPH DRC 29717 25911 H e 983 - W. W TPH GRC 29722	Flag Flag 6 Valt		Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal	lyzed: Preparation: D	2006-09-05 2006-09-05 Units mg/Kg hilution 1 S 8015B 2006-09-05	Spike Amount	Analyz Prepard Dilution 1 Percent Recovery 154 Prep Meth Analyzed	ed By: AG ed By: AG RI 50. Recover Limits 70 - 130 nod: S 503 By: LO
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 101 Analysis: QC Batch:	TPH DRC 29717 25911 He 983 - W. W TPH GRC	Flag Flag 6 Valt		Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal	lyzed: Preparation: D	2006-09-05 2006-09-05 Units mg/Kg vilution 1 S 8015B	Spike Amount	Analyz Prepare Dilution 1 Percent Recovery 154 Prep Meth	ed By: AG ed By: AG Rl 50. Recover Limits 70 - 130 nod: S 503 By: LO
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 101	TPH DRC 29717 25911 H e 983 - W. W TPH GRC 29722	Flag Flag 6 Valt		Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL	lyzed: Preparation: D	2006-09-05 2006-09-05 Units mg/Kg vilution 1 S 8015B 2006-09-05 2006-09-05	Spike Amount	Analyz Prepare Dilution 1 Percent Recovery 154 Prep Meth Analyzed Prepared	ed By: AG ed By: AG RI 50.0 Recover Limits 70 - 130 nod: S 503 By: LO
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 101 Analysis: QC Batch:	TPH DRC 29717 25911 H e 983 - W. W TPH GRC 29722	Flag Flag 6 Valt		Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr	lyzed: Preparation: D	2006-09-05 2006-09-05 Units mg/Kg hilution 1 S 8015B 2006-09-05	Spike Amount	Analyz Prepard Dilution 1 Percent Recovery 154 Prep Meth Analyzed	ed By: AG ed By: AG RI 50.0 Recover Limits 70 - 130 nod: S 503 By: LO

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.

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043995	eport Date: September 7, 2006 43995			Work Ord Duke Art	Page Number: 7 of 13 Eddy County, NM			
Sample: 101	1984 - N. Wall							
Analysis:	BTEX		Analytical M	lethod:	S 8021B		Prep Metl	hod: S 503
QC Batch:	29719		Date Analyz		2006-09-06		Analyzed	
Prep Batch:	25912		Sample Prep		2006-09-05		Prepared	
			RL					
Parameter		Flag	Result		Units	I	Dilution	R
Benzene			< 0.0100		mg/Kg		1	0.010
Toluene			0.0177		mg/Kg		1	0.010
Ethylbenzen	e		< 0.0100	I	mg/Kg		1	0.010
Xylene			0.0214	· · · · ·	mg/Kg		1	0.010
						Spike	Percent	Recover
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	· · ·		0.782	mg/Kg	1	1.00	78	75 - 12
4-Bromofluo	orobenzene (4-BF	FB)	0.878	mg/Kg	1	1.00	88	75 - 12:
Duan Dataha	25911		Sample P	reparation	2006-09-05		Prepare	ed By: AC
Parameter	1	Flag	RL Result		Units		Dilution	
Parameter]	Flag			Units mg/Kg		Dilution 1	
Parameter DRO			Result <50.0		mg/Kg	Spike	l Percent	50. Recover
Parameter DRO Surrogate	Flag	Result	Result <50.0 Units	Ē		Spike Amount	l Percent Recovery	50. Recover Limits
Parameter DRO Surrogate	Flag		Result <50.0	E	mg/Kg	Spike	l Percent	50. Recover Limits
Parameter DRO Surrogate n-Triacontan	Flag	Result	Result <50.0 Units	E	mg/Kg	Spike Amount	l Percent Recovery	50. Recover Limits
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis:	Flag e 7	Result	Result <50.0 Units		mg/Kg	Spike Amount	l Percent Recovery	50. Recover Limits 70 - 130
Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis:	Flag re 7 1984 - N. Wall TPH GRO 29722	Result	Result <50.0 Units mg/Kg Analytical Date Anal	Method:	mg/Kg Dilution 1 S 8015B 2006-09-05	Spike Amount	1 Percent Recovery 151	50. Recover Limits 70 - 130 hod: S 503
Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis: QC Batch:	Flag te 7 1984 - N. Wall TPH GRO	Result	Result <50.0 Units mg/Kg Analytical	Method:	mg/Kg Dilution 1 S 8015B	Spike Amount	l Percent Recovery 151 Prep Met	50. Recover Limits 70 - 130 hod: S 503 By: LO
Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis: QC Batch: Prep Batch:	Flag 7 1984 - N. Wall TPH GRO 29722 25912	Result 226	Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL	Method:	mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05	Spike Amount 150	l Percent Recovery 151 Prep Met Analyzed Prepared	50. Recover Limits 70 - 130 hod: S 503 By: LO By: LO
Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	Flag 7 1984 - N. Wall TPH GRO 29722 25912	Result	Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result	Method:	mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05 Units	Spike Amount 150	l Percent Recovery 151 Prep Meth Analyzed Prepared Dilution	50. Recover Limits 70 - 13(hod: S 503 By: LO By: LO By: LO
Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	Flag 7 1984 - N. Wall TPH GRO 29722 25912	Result 226	Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL	Method:	mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05	Spike Amount 150	l Percent Recovery 151 Prep Met Analyzed Prepared	50. Recover Limits 70 - 13(hod: S 503 By: LO By: LO By: LO
Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	Flag 7 1984 - N. Wall TPH GRO 29722 25912	Result 226	Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result <1.00	Method: yzed: eparation:	mg/Kg Dilution 1 \$ 8015B 2006-09-05 2006-09-05 Units mg/Kg	Spike Amount 150 Spike	I Percent Recovery 151 Prep Meth Analyzed Prepared Dilution 1 Percent	50. Recover Limits 70 - 130 hod: S 503 By: LO By: LO By: LO Recover
Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate	Flag 7 1984 - N. Wall TPH GRO 29722 25912	Result 226	Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result <1.00 Result	Method: yzed: eparation: Units	mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05 Units mg/Kg Dilution	Spike Amount 150 Spike Amount	l Percent Recovery 151 Prep Meth Analyzed Prepared Dilution 1 Percent Recovery	By: LO By: LO R 1.0 Recover Limits
Parameter DRO Surrogate n-Triacontan Sample: 101 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu	Flag 7 1984 - N. Wall TPH GRO 29722 25912	Result 226 Flag Flag	Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result <1.00	Method: yzed: eparation:	mg/Kg Dilution 1 S 8015B 2006-09-05 2006-09-05 2006-09-05 Units mg/Kg Dilution 1	Spike Amount 150 Spike	I Percent Recovery 151 Prep Meth Analyzed Prepared Dilution 1 Percent	50. Recover Limits 70 - 130 hod: S 503 By: LO By: LO By: LO Recover

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

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Report Date: September 043995			rder: 6090504 rtesia Flair Pit			umber: 8 of 1 y County, NM	
Method Blank (1) Q	C Batch: 29717						
QC Batch: 29717		Date An	alvzed:	2006-09-05		Analyz	zed By: AG
Prep Batch: 25911		QC Prep	•	2006-09-05		Prepar	-
			м	DI			
Parameter	Flag		MI Res		Un	its	RI
DRO	1 mg			3.0	mg/		50
					-		
					Spike	Percent	Recover
	lag Result	Units		Dilution	Amount	Recovery	Limits
n-Triacontane	142	mg/Kg		1	150	95	70 - 130
Method Blank (1) Q	C Batch: 29719						
QC Batch: 29719		Date An	alvzed·	2006-09-06		Analy	zed By: LO
Prep Batch: 25912		QC Prep	•	2006-09-00		•	red By: LC
Tep Baten. 25912		QUIN				Пера	cu by. Ec
Parameter	Flag			MDL Result	IJ	nits	RL
Benzene	1 146			00270		/Kg	0.0
Toluene				00320	-	/Kg	0.0
Ethylbenzene			<0.0	00340	-	/Kg	0.0
Xylene			0	0.0190	mg	/Kg	0.0
					Spike	Percent	Recover
Surrogate	Flag	Result	Units			Recovery	Limits
Trifluorotoluene (TFT)		0.806	mg/K	-	1.00	81	75 - 125
4-Bromofluorobenzene (4	1-BFB)	0.811	mg/K	.g 1	1.00	81	75 - 125
Method Blank (1) Q	C Batch: 29722						
QC Batch: 29722			alyzed:			Analy	zed By: LC
Prep Batch: 25912		QC Prep	aration:	2006-09-05		Prepar	red By: LC
				DL			
Parameter	Flag		Res		Un		R
GRO			2	.76	mg/	Kg	1
					Spike	Percent	Recover
Surrogate	Flag	Result	Units			Recovery	Limits
Trifluorotoluene (TFT)		0.968	mg/K		1.00	97	70 - 130
4-Bromofluorobenzene (4	(DED)	1.11	mg/K	~ 1	1.00	111	70 - 130

Laboratory Control Spike (LCS-1)

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QC Batch:	29717	Date Analyzed:	2006-09-05	Analyzed By:	AG
Prep Batch:	25911	QC Preparation:	2006-09-05	Prepared By:	AG

Report Date: September 7, 043995	2006		Work Order: 6090504 Duke Artesia Flair Pit							Page Number: 9 of 13 Eddy County, NM		
Param		LCS Resul		Units	Dil.	Spik Amo		Matrix Result	Rec.		Rec. Limit	
DRO		242		mg/Kg	1	250		<15.4	97		70 - 13	
Percent recovery is based of	n the spike	e result. RPD	is base		oike and spi	ke duplica						
		LCSD		-	-	-		р			זתמ	
Param		Result	Units	Dil.	Spike Amount	Matr			ec. mit	RPD	RPI	
DRO		227	mg/Kg		250	Resu <15			· 130	6	Lim 20	
Percent recovery is based or	n the spike						• •	,0	150	0		
	-			u on the sp	Jine and opt	-						
~	LCS	LCSD				Spik		LCS	LCSD		Rec.	
Surrogate	Result	Result		Units	Dil.	Amou		Rec.	Rec.		Limit	
n-Triacontane	121	118		mg/Kg	1	150)	81	79		70 - 13	
Laboratory Control Spike	(LCS-1)											
QC Batch: 29719				Analyzed:	2006-09-				Ana	lyzed I	By: LO	
Prep Batch: 25912			QC P	reparation:	2006-09-	-05			Prep	ared B	By: LO	
		LCS				Spike		latrix			Rec.	
Param		Result		Units	Dil.	Amoun		esult	Rec	•	Limi	
Benzene		0.974		mg/Kg	1	1.00		.00270	97		70 - 13	
Toluene		0.926		mg/Kg	1	1.00		.00320	93		70 - 13	
Ethylbenzene		0.910		mg/Kg	1	1.00		.00340	91		70 - 13	
Xylene		2.73		mg/Kg	1	3.00).0104	91		70 - 13	
Percent recovery is based of	1 the spike	e result. RPD	is base	ed on the sp	oike and spi	ke duplica	ate result.					
		LCSD			Spike	Matr	ix	F	Rec.		RP	
Param		Result	Units	Dil.	Amount	Resu	lt Rea	c. L	imit	RPD	Lim	
Benzene		0.965	mg/Kg	1	1.00	< 0.002	270 97	70	- 130	1	20	
Toluene		0.917	mg/Kg	1	1.00	< 0.002	320 93	70	- 130	1	20	
Ethylbenzene		0.902	mg/Kg	1	1.00	< 0.00	340 91	70	- 130	1	20	
Xylene			mg/Kg	1	3.00	< 0.01		70	- 130	1	20	
Percent recovery is based of	n the spike	e result. RPD	is base	ed on the sp	oike and spi	ke duplica	ate result.					
		LCS	L	CSD			Spike	LCS	LCS	D	Rec.	
Surrogate		Result		esult	Units	Dil.	Amount	Rec.	Rec		Limi	
Trifluorotoluene (TFT)		0.810	0	.809	mg/Kg	1	1.00	81	81		70 - 13	
4-Bromofluorobenzene (4-E	BFB)	0.882	0	.879	mg/Kg	1	1.00	88	88		70 - 13	
Laboratory Control Spike QC Batch: 29722 Prep Batch: 25912	(LCS-1)			Analyzed: reparation:	2006-09- 2006-09-					lyzed I ared B	•	
		LCS				C	~ ``	latri			Det	
Param		Resul		Units	Dil.	Spik Amou		Aatrix Asult	Dac		Rec.	
GRO		8.28	L	mg/Kg	1	Amot		Result (0.829	Rec. 83		Limit 70 - 13	
(ARE)				marka								

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			Duker	Artesia Flair	Pit				ounty, NN
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limi
GRO	7.82	mg/Kg		10.0	<0.829	83	70 - 130	6	20
Percent recovery is based on th						eult			
creent recovery is based on a	ie spike result. K		u on the s	pike and spik	te duplicate i	Jourt.			
	L	CS L	CSD		-			LCSD	Rec.
Surrogate			esult					Rec.	Limit
Trifluorotoluene (TFT)				mg/Kg				113	70 - 130
I-Bromofluorobenzene (4-BFE	B) 1.	20	1.20	mg/Kg	1 1.	00	120	120	70 - 130
Matrix Spike (MS-1) Spike	ed Sample: 1019	81							
QC Batch: 29717		Date A	Analyzed:	2006-09-0)5		A	Analyzed H	By: AG
Prep Batch: 25911			reparation		05			Prepared B	•
		ì	-					-	
		40			C 11				D
Daman		MS	I Inita	Dil	Spike	Mat			Rec.
Param DRO		esult 139	Units mg/Kg	Dil.	Amount 250	Res		Rec. 376	Limit 70 - 13
				1			.4 .	570	70 - 13
Percent recovery is based on the	ne spike result. F	PD is base	ed on the s	pike and spik	te duplicate r	esult.			
	MSD			Spike	Matrix		Rec.		RPE
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Lim
DRO	⁹ 531	mg/Kg		250	<15.4	212	70 - 130	56	20
Surrogate	Result	MSD Result	Units	Dil.	Spike Amoun		ec. F	ISD Rec.	Rec. Limit
n-Triacontane	282	206	mg/Kg	1	150	18	8 1	37	70 - 13
Matrix Spike (MS-1) Spike QC Batch: 29719 Prep Batch: 25912	ed Sample: 1019	Date	Analyzed: reparation					Analyzed 1 Prepared E	•
	M		I Inita	Dil	Spike	Matr		Daa	Rec.
Param Benzene	Re: 0.8		Units mg/Kg	Dil.	Amount 1.00	Resu <0.002		Rec. 85	Limit 70 - 13
Foluene	0.8		mg/Kg mg/Kg	1	1.00	<0.00. 0.026		85 79	70 - 13
Ethylbenzene	0.7		mg/Kg	1	1.00	0.020		79 78	70 - 13
Kylene	2.1		ng/Kg	1	3.00	0.049		78 78	70 - 13
Percent recovery is based on the						•	-		
	MSD			Spike	Matrix		Rec.		RPI
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Lim
Benzene	0.769	mg/Kg	1	1.00	< 0.00270	77	70 - 130		20
	0 704	mg/Kg	1	1.00	0.0268	76	70 - 130	4	20
Foluene continued	0.784								

¹⁰High surrogate recovery due to peak interference. ¹¹High surrogate recovery due to peak interference.

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Report Date: September 7, 2006 043995

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Work Order: 6090504 Duke Artesia Flair Pit

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit		
Ethylbenzene	0.776	mg/Kg	1	1.00	0.011	76	70 - 13		20
Xylene	2.34	mg/Kg	1	3.00	0.0499	76	70 - 13	30 2	20
Percent recovery is based on	the spike result.	RPD is base	ed on the sp	pike and spik	e duplicate	e result.			
		MS I	MSD			Spike	MS	MSD	Rec.
Surrogate	Ā		Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)).800	mg/Kg	1	1	95	80	70 - 130
4-Bromofluorobenzene (4-BF).893	mg/Kg	1	1	90	89	70 - 130
Matrix Spike (MS-1) Spil	ced Sample: 101	979							
QC Batch: 29722		Date	Analyzed:	2006-09-0	15			Analyzed	By: LO
Prep Batch: 25912			reparation:					Prepared	
		X							
		MS			Spike	М	atrix		Rec.
Param		Result	Units	Dil.	Amoun	t R	esult	Rec.	Limit
GRO	12	6.76	mg/Kg	1	10.0	<	0.829	63	70 - 130
Param GRO	MSI Resu 13 6.97	lt Units		Spike Amount 10.0	Matrix Result <0.829	Rec.	Rec. Limit 70 - 13		RPD Limi 20
		0.	-						
Percent recovery is based on									
Percent recovery is based on		MS	MSD			Spike	MS	MSD	Rec.
		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate Trifluorotoluene (TFT)	14 15			Units mg/Kg	Dil.	Spike Amount 1	MS Rec. 65	MSD Rec. 66	Limit
Surrogate		Result	Result			-	Rec.	Rec.	
Surrogate Trifluorotoluene (TFT)		Result 0.646	Result 0.661	mg/Kg	1	Amount 1	Rec. 65	Rec. 66	Limit 70 - 130
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF		Result 0.646 1.24	Result 0.661	mg/Kg	1	Amount 1	Rec. 65	Rec. 66	Limit 70 - 130 70 - 130
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Standard (ICV-1)		Result 0.646 1.24 Date J	Result 0.661 1.26 Analyzed:	mg/Kg mg/Kg 2006-09-05 CVs	1 1 5 ICVs	Amount 1	Rec. 65 124 Percent	Rec. 66 126	Limit 70 - 130 70 - 130 By: AG
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Standard (ICV-1) QC Batch: 29717	έ Β)	Result 0.646 1.24 Date J ICVs True	Result 0.661 1.26 Analyzed: IC Fo	mg/Kg mg/Kg 2006-09-05 CVs pund	1 1 5 ICVs Percent	Amount 1 1	Rec. 65 124 Percent Recovery	Rec. 66 126 Analyzed	Limit 70 - 130 70 - 130 By: AG Date
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Standard (ICV-1)		Result 0.646 1.24 Date J	Result 0.661 1.26 Analyzed: IC Fo	mg/Kg mg/Kg 2006-09-05 CVs	1 1 5 ICVs	Amount 1 1	Rec. 65 124 Percent	Rec. 66 126 Analyzed	Limit 70 - 130 70 - 130 By: AG

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

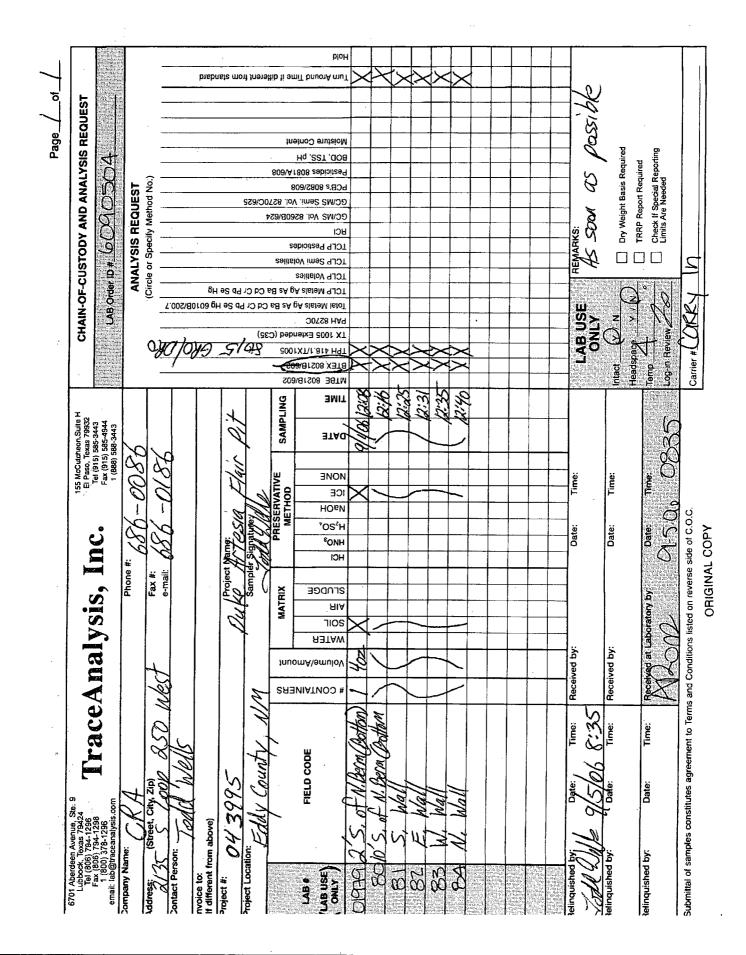
¹³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

- ¹⁴Surrogate out due to peak interference.
- ¹⁵Surrogate out due to peak interference.

Report Date: 043995	September 7,	2006		Work Order: 609 Duke Artesia Fla			Number: 12 of 13 ddy County, NM
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	218	87	85 - 115	2006-09-05
Standard (IC	CV-1)						
QC Batch:	29719		Date Anal	yzed: 2006-09	-06	Ana	alyzed By: LO
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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	e	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 (C	CCV-1)						
QC Batch:	29719		Date Anal	yzed: 2006-09	-06	Ana	alyzed By: LO
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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	e	mg/Kg	0.100	0.0847	85	85 - 115	2006-09-06
Xylene		mg/Kg	0.300	0.260		85 - 115	2006-09-06
Standard (I	CV-1)						
QC Batch:	29722		Date Anal	yzed: 2006-09	-05	Ana	alyzed By: LO
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.04	104	85 - 115	2006-09-05
Standard (C	CCV-1)						
QC Batch:	29722		Date Anal	yzed: 2006-09	-05	Ana	alyzed By: LO
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.07	107	85 - 115	2006-09-05

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APPENDIX B

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ARTESIA AERATION LLC PERMIT

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

DIL 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 Acration 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

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

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CERTIFICATE OF WASTE STATUS

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	3. Originating Site (name): Artesia Gas Plant	Location of Waste (Street address & for ULSTR): PSMIT NM-01-0030 P. D. Box 310 Multramal, NM Hobbs, NM
	4. Source and Description of Waste Flair pit Soil	N/2 of Section 7, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico

Curis R. Jule 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-bazandous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate box)

____MSDS Information

Other (description)

RCRA Hazardous Waste Analysis

- Other (description)

Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occuring Radioactive Material (NORM) pursuant to 20 NRIAC 3.1 subpart 1403.C and B.

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