

# **WORK PLANS**



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May 26, 2006

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Mr. Mike Bratcher New Mexico Oil Conservation Division 1301 W. Grand Ave Artesia, NM 88210

Artesia, NM 88210 RE: Flare Pit Soil Remediation and Closure Workplan Duke Energy Field Services Artesia Gas Plant Section 7, T18S, R28E Eddy County, NM

Dear Mr. Bratcher:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review, a copy of the Flare Pit Soil Remediation and Closure Report for the DEFS Artesia Gas Plant located in Eddy County, New Mexico (Section 7, Township 18 South, Range 28 East).

Upon your approval, DEFS will move forward with the closure activities. One hard copy of the workplan will also be mailed next week.

If you have any questions regarding these reports, please call at 303-605-1718 or an in a sweathers@duke-energy.com .

Sincerely

**Duke Energy Field Services, LP** 

Stephen Weathers, PG Sr. Environmental Specialist

cc: Boyd Fortin, DEFS Midland Office Environmental Files

## FLARE PIT SOIL REMEDIATION AND CLOSURE WORKPLAN

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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 WORKPLAN

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

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May 23, 2006 Ref. no. 043995 (1)

#### TABLE OF CONTENTS

1.0	INTROD	UCTION	1
2.0	REGULA	TORY FRAMEWORK AND SITE CLASSIFICATION	2
3.0	INITIAL	SOIL SAMPLING RESULTS	3
4.0	SOIL REN TASK 1	MEDIATION WORKPLAN	
	TASK 1 TASK 2	EXCAVATION PLAN	5
	TASK 3 TASK 4	SOIL-STAGING AND HAULING ACTIVITIES	
	TASK 4 TASK 5	WASTE MANAGEMENT	6
	TASK 6	SITE RESTORATION	
	TASK 7	SITE CLOSURE REPORT	6

#### LIST OF FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	SITE DETAILS AND SAMPLE LOCATION MAP

#### LIST OF TABLES

- TABLE I
   SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT
- TABLE II
   SUMMARY OF SOIL ANALYTICAL RESULTS-TOTAL METALS

#### LIST OF APPENDICES

- APPENDIX A LABORATORY ANALYTICAL REPORTS
- APPENDIX B FORM C-144 PIT OR BELOW-GRADE TANK REGISTRATION OR CLOSURE
- APPENDIX C ARTESIA AERATION LLC PERMIT

APPENDIX D FORM C-138 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE AND CERTIFICATE OF WASTE STATUS

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#### 1.0 INTRODUCTION

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Conestoga-Rovers & Associates (CRA) has prepared this Flare Pit Soil Remediation and Closure Workplan 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.

The purpose of this document is to provide information for New Mexico Oil Conservation Division (NMOCD) consideration and ultimate approval of Closure Plan information contained in this report. Closure Plan elements include:

- procedures utilized to assess the extent of contamination;
- procedures utilized to manage, remediate and dispose of all contaminated soil and wastes; and
- schedules for submission of closure reports for the subject flare pit.

This document presents the results of initial soil sampling results performed at the Site, a regulatory framework for existing and proposed activities as well as a soil remediation and closure workplan designed to facilitate Site closure. Site details, sampling locations and the proposed remedial excavation area are presented as FIGURE 2. Appendices are provided to include laboratory analytical reports, NMOCD regulatory forms C-138 and C-144 for use in association with proposed project activities, and signed approval by Edward Martin of the NMOCD classifying the waste as RCRA non exempt for disposal at the Artesia Aeration Landfarm.

1

#### 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 is required to perform an assessment to evaluate the extent to which soils and/or groundwater may have been impacted by its operation. Assessment results will form the basis of any required remediation. Remediation should be performed in accordance to NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993.

This project is 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 shall not be 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 are determined by ranking criteria on a site-by-site basis, as outlined in the NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993. The ranking criteria are 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 sites' 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) are proposed for remediation at the Site.

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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 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 and submitted to TraceAnalysis Inc. (Trace) of Lubbock, Texas. A Site Details and Sample Location Map is provided as FIGURE 2 presenting the soil sample locations. The samples were analyzed for BTEX utilizing EPA Method 8021B, TPH using EPA 8015 Modified for diesel range organics/gasoline range organics (DRO/GRO), and total metals using EPA Method S 6010B/7471.

The analytical results collected and submitted for analysis at the flare pit are summarized in TABLES I and II. The results indicate all the samples were below NMOCD RRALS for closure with the exception of the North Bottom 2' sample which had a TPH concentration of 682 mg/Kg (in the DRO). Laboratory reports are presented in APPENDIX A.

#### 4.0 SOIL REMEDIATION WORKPLAN

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This Soil Remediation Workplan proposes tasks to remove hydrocarbon-affected soils and perform restoration activities at the Site. The workplan is based upon existing Site conditions and associated NMOCD guidance documents.

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

The primary objectives of this Soil Remediation Workplan are to remove the affected soils from the Site that exhibit hydrocarbon concentrations above NMOCD regulatory guidelines and obtain written acknowledgement from the NMOCD regarding the implemented soil remediation workplan activities. Upon completion of these work plan activities, obtain a written no further action warranted letter from the NMOCD (as appropriate). Excavated soils are scheduled for transportation to Artesia Aeration in Hobbs, New Mexico.

This Remedial Workplan includes the following tasks:

- Task 1 Site Preparation
- Task 2 Excavation Plan
- Task 3 Soil-Staging and Hauling Activities
- Task 4 Confirmation Soil Sampling Plan
- Task 5 Waste Management
- Task 6 Site Restoration
- Task 7 Site Closure Report

The following sections outline the general tasks proposed for this Soil Remediation Workplan. The findings of the remediation activities will be submitted to the NMOCD District 2 office on Form C-144 (APPENDIX B), with attachments as Site closure documentation.

#### Task 1 – Site Preparation

Upon notification to proceed with the Soil Remediation Workplan activities by the NMOCD and DEFS, CRA will initiate Site preparation activities for the Artesia Flare Pit project.

A project specific Health and Safety Plan (HASP) will be prepared by CRA prior to conducting the soil excavation, removal, and backfilling (as appropriate) activities. Safety and health issues associated with this project include working around

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excavations, heavy equipment, hydrocarbon-affected soils, and underground utilities such as pipelines. The CRA representative will implement the HASP in the field.

Field activities will require 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 will be implemented prior to beginning field activities in accordance with HASP objectives – including communication and review of DEFS site-specific safety requirements.

Pre-approval of waste management activities including waste characterization, transportation and disposal/treatment of impacted soils are also proposed (see Task 5 – Waste Management).

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

#### Task 2 – Excavation Plan

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Subsequent to the completion of the Site preparation task, excavation activities will be implemented at the "proposed remedial excavation area" identified in FIGURE 2. Excavation walls will be sloped or benched in accordance to the Occupational Safety and Health Administration (OSHA) guidelines. Based on the initial soil sampling results for the Site, excavation activities are anticipated to be limited in nature and are not anticipated to exceed 10-feet bgs. Heavy equipment will be utilized to remove affected soils for staging adjacent to the remedial excavation.

Soil samples will periodically be collected within the excavations 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 will be field screened utilizing a photoionization detector (PID) calibrated to a 100-ppm isobutylene standard. Each soil sample will be placed in resealable plastic bags leaving a headspace for volatile organic compounds (VOCs) to collect. After sufficient time has passed to allow for volatilization, the headspace in each bagged sample will be measured using the PID. Visual observation of soil conditions will also be utilized to determine the limits of the excavation. Areas exhibiting excessive VOC concentrations and/or visual impacts will be over-excavated and re-sampled until reduced concentrations and/or limited visual impacts are documented.

#### Task 3 - Soil-Staging and Hauling Activities

Hydrocarbon-affected soils removed from the remedial excavation area will be staged adjacent to the excavation on a poly liner. The waste materials are identified for offsite transport to the Artesia Aeration landfarm facility (see Task 5 - Waste Management). The materials will be loaded into a trailer or dump trucks at the prescribed staging area. Appropriate documentation including manifests and/or bills-of-lading will be maintained for all soils transported offsite and onsite.

#### Task 4 - Confirmation Sampling Plan

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The NMOCD District 2 Artesia office will be notified at least 48 hours in advance of planned confirmation sampling activities. Excavation sidewall/floor areas are identified for confirmation soil sampling activities. The grab sample locations will be based on the geometry of the remedial excavation. For planning purposes, 5 sidewall/floor samples in the remedial excavation are anticipated. Site-specific NMOCD ranking criteria cleanup levels of 10 mg/Kg Benzene, 50 mg/Kg total BTEX and 100 mg/Kg TPH are adopted for remedial and closure activities at the Site.

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

#### Task 5 - Waste Management

Hydrocarbon-affected soils removed from the Site are identified for offsite disposal/treatment at the Artesia Aeration facility located near Hobbs, New Mexico. The soils are 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 C). CRA understands that Artesia Aeration is a DEFS-approved facility. The estimated volume of soils targeted for transport to the facility is approximately 10 cubic yards. Manifests and bills-of-lading documentation will be maintained to track the actual amount of soil removed from the Site.

Analytical soil samples were submitted under proper chain-of-custody to Trace for waste profiling purposes - including RCRA (8) Metals, BTEX, and TPH (GRO/DRO) analyses. The laboratory analysis supports a non-hazardous classification for the respective analytes (TABLES I and II). Subsequently, a NMOCD-Request for Approval to Accept Solid Waste Form C-138 and Certificate of Waste Status Form (APPENDIX C) was submitted to the NMOCD along with the waste characterization analytical data in order to obtain pre-approval of 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 D) will need to be completed and signed by DEFS prior to disposal of any waste at the landfarm.

#### Task 6 – Site Restoration

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).

#### Task 7 – Site Closure Report

A document summarizing the findings of the Soil Remediation and Closure Workplan activities is proposed for submittal to the DEFS Artesia District 2 office on the NMOCD Form C-144 "*Pit or Below-Grade Tank Registration or Closure*". A Soil Remediation and Site Closure report attachment to the form will summarize soil excavation/staging activities, confirmation sampling results, as well as provide waste management documentation and Site restoration activities. Site figures, certified laboratory reports, manifests, bills-of-lading, and other relevant project information will be provided in the report. The report will be submitted to the DEFS approximately three weeks subsequent to (CRA) receiving final laboratory analytical reports on the confirmation sampling activities.

CRA is prepared to begin work on this project subsequent to NMOCD notification to proceed. If you have any questions, comments, or require additional information, please contact us at (432) 686-0086.

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

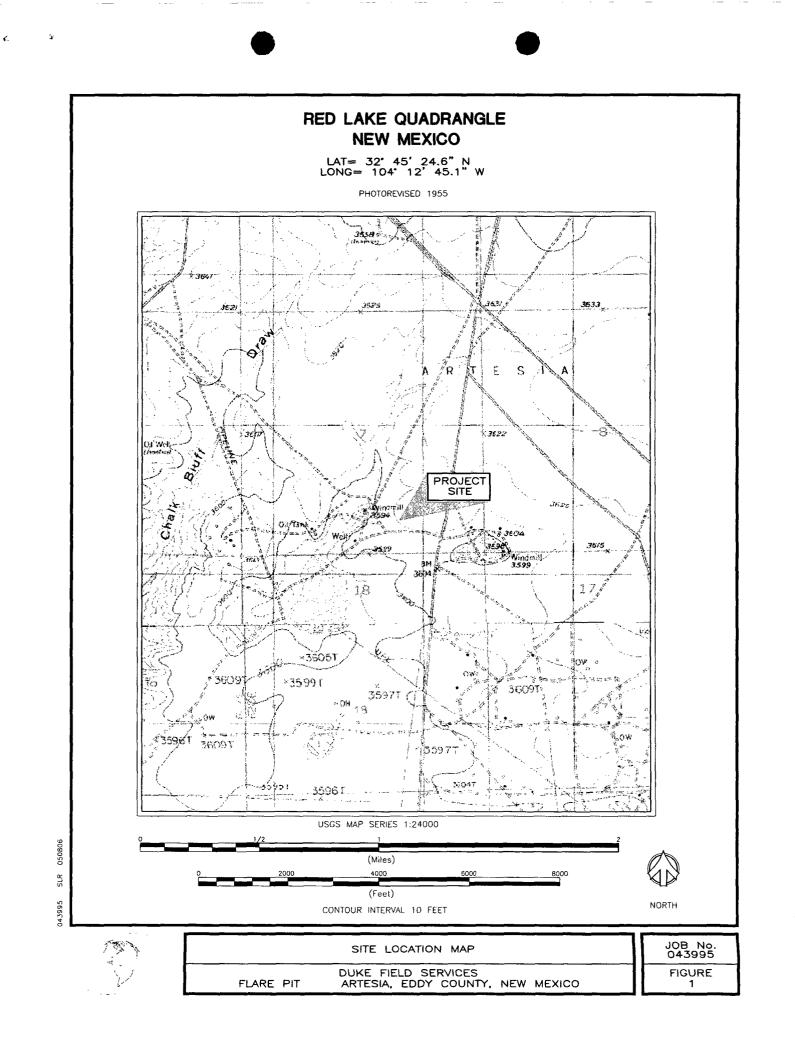
leff Kindlev **Project Manager** 

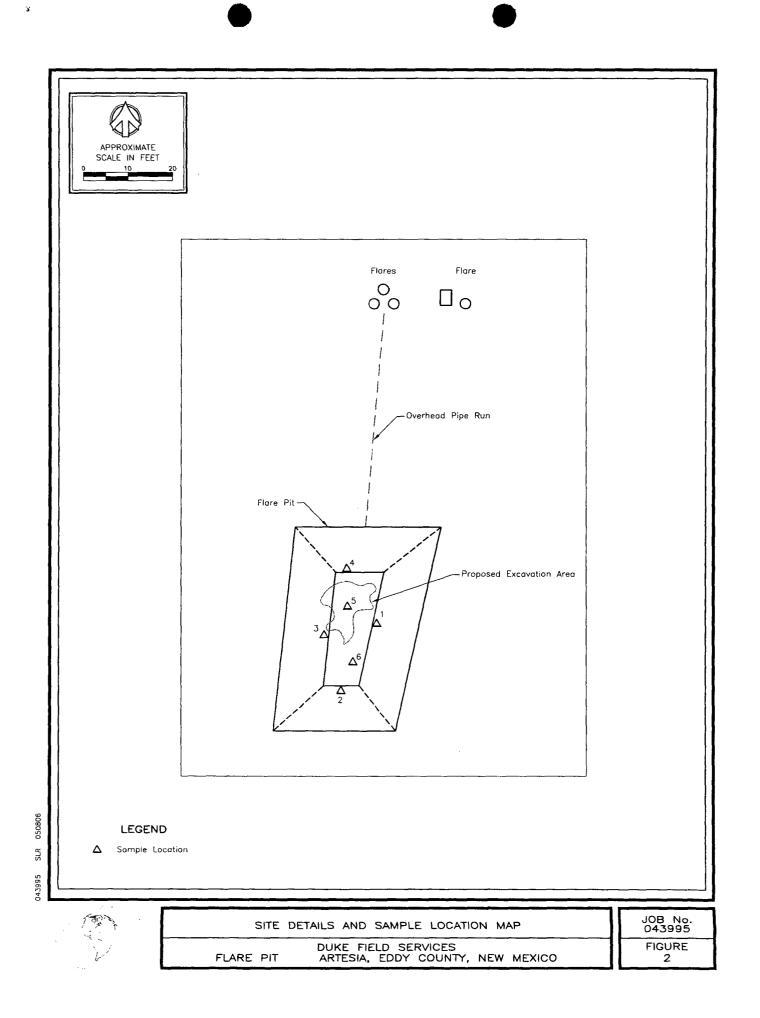
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Thomas C. Larson Operations Manager

### **FIGURES**

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### TABLES

**TABLE I** 

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# SUMMARY OF SOIL ANALYTICAL RESULTS-BTEX/MTBE/TPH DUKE ENERGY FIELD SERVICES EDDY COUNTY, NEW MEXICO ARTESIA FLARE PIT

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH DRO	TPH GRO	TOTAL TPH DRO/GRO	MTBE
					NMOC	NMOCD STANDARDS	RDS			
		101	1	1		501	1	1	1001	:
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/L)
E Berm	01/23/06	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00	<50.0	<0.0100
S. Berm	01/23/06	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00	<50.0	<0.0100
W. Berm	01/23/06	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00	<50.0	<0.0100
N. Berm	01/23/06	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00	<50.0	<0.0100
N. Bottom (2')	01/23/06	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	682	<5.00	682	<0.0500
S. Bottom (2')	01/23/06	<0.0100	<0.0100	<0.00100	<0.0100	<0.0100	<50.0	<1.00	<50.0	<1.00
Notes:										

1. New Mexico Oil Conservation Division Guidelines for Remediation of Leaks, Spills and Releases

2. Results shown in mg/Kg

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.

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**TABLE II** 

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# SUMMARY OF SOIL ANALYTICAL RESULTS-TOTAL METALS DUKE ENERGY FIELD SERVICES EDDY COUNTY, NEW MEXICO **ARTESIA FLARE PIT**

Sample ID	Date	Total Silver	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Selenium
					NMOCD ST	NMOCD STANDARDS			
		166	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:									

Notes:

1. New Mexico Environmental Department Hazardous Waste Bureau Voluntary Remediation Program for Residential Soils

2. Total Metals by EPA Method S 6010 B

3. Bolded areas indicate detection above laboratory standards.

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#### APPENDIX A

#### LABORATORY ANALYTICAL REPORTS

Report Date: January 31, 2006 043995 Work Order: 6012505 Duke-Artesia Flare Pit Page Number: 1 of 3 Eddy County,NM

#### Summary Report

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

Report Date: January 31, 2006

Work Order: 6012505

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

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

		]	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	$\mathbf{Flag}$	$\operatorname{Result}$	$\mathbf{Units}$	$\operatorname{RL}$
Total Silver		1.54	mg/Kg	0.200
Total Arsenic		<1.00	m mg/Kg	1.00
Total Barium		398	m 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	m 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 ...

Param	Flag	Result	Units	RL
Param	Flag	Result	$\mathbf{Units}$	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	$\operatorname{RL}$
Total Silver		1.20	mg/Kg	0.200
Total Arsenic		<1.00	mg/Kg	1.00
Total Barium		430	mg/Kg	1.00
Total Cadmium		< 0.500	mg/Kg	0.500
Total Chromium		40.1	mg/Kg	1.00
Total Mercury		< 0.0400	mg/Kg	0.0400
Total Lead		1.95	mg/Kg	1.00
Total Selenium		<1.00	mg/Kg	1.00

#### Sample: 83012 - N. Berm

Param	Flag	Result	Units	$\mathbf{RL}$
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	$\operatorname{RL}$
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

Param	$\mathbf{F}\mathbf{lag}$	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

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Report Date: January 31, 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 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

Dr. Blair Leftwich, Director

Report Date: January 31, 2006 043995

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Work Order: 6012505 Duke-Artesia Flare Pit Page Number: 2 of 18 Eddy County,NM

#### **Analytical Report**

Sample: 83009 - E. Berm

Analysis:BTEXQC Batch:24210Prep Batch:21279		Analytical Date Analy Sample Pre	yzed:	S 8021B 2006-01-25 2006-01-25		Prep M Analyz Prepare	ed By: MT
		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
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-E	BFB)	0.671	mg/Kg	10	0.100	67	40.8 - 140.1

#### Sample: 83009 - E. Berm

Analysis: QC Batch: Prep Batch: Analysis:	Total 8 Metals 24236 21286 Total 8 Metals	Analytical Method: Date Analyzed: Sample Preparation: Analytical Method:	S 6010B 2006-01-27 2006-01-26 S 7471A	Prep Method: Analyzed By: Prepared By: Prep Method:	S 3050B RR DS N/A
QC Batch:	24289	Date Analyzed:	2006-01-30	Analyzed By:	TP
Prep Batch:	21346	Sample Preparation:	2006-01-30	Prepared By:	TP
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Total Silver		1.54	mg/Kg	1	0.200
Total Arsenic	;	<1.00	mg/Kg	1	1.00
Total Barium	i i i i i i i i i i i i i i i i i i i	398	mg/Kg	1	1.00
Total Cadmiu	ım	<0.500	mg/Kg	1	0.500
Total Chromi	ium	52.1	mg/Kg	1	1.00
Total Mercur	у	< 0.0400	mg/Kg	1	0.0400
Total Lead		<1.00	mg/Kg	1	1.00
Total Seleniu	m	<1.00	mg/Kg	1	1.00

#### Sample: 83009 - E. Berm

Analysis: QC Batch: Prep Batch:	TPH DRO 24274 21330		Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2006-01-28 2006-01-27		Prep Method: Analyzed By: Prepared By:	DS
<b>D</b>			RL	<b>.</b>			
Parameter		Flag	Result	Units	Dilution		RL
DRO			<50.0	mg/Kg	1		50.0

Report Date 043995	: January 31, 2006			Work Orde Duke-Artes				Number: 3 of 18 ddy County,NM
Surrogate n-Triacontan	Flag	Result	Units mg/Kg		ilution	Spike Amount 150	Percent Recovery 115	Recovery Limits 50 - 150
Sample: 83	)09 - E. Berm							
Analysis:	TPH GRO			al Method:	S 8015B		Prep M	
QC Batch:	24211		Date Ana		2006-01-25		Analyz	
Prep Batch:	21279		Sample F	reparation:	2006-01-25		Prepare	d By: MT
			RL					
Parameter	Flag		Result		Units		Dilution	RL
GRO			<1.00		mg/Kg		10	0.100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.902	mg/Kg	10	0.100	90	68 - 129.6
	probenzene (4-BFB)		0.784	mg/Kg	10	0.100	78	71.9 - 123.7
QC Batch: Prep Batch:	24210 21279		Date Analy Sample Pre		2006-01-25 2006-01-25		Analyz Prepare	•
			RI					
Parameter	Flag	5	Resul		Units	I	Dilution	RL
MTBE Benzene			<0.0100		mg/Kg		10 10	0.00100 0.00100
Toluene			< 0.0100	-	mg/Kg mg/Kg		10	0.00100
Ethylbenzen	e		< 0.0100		mg/Kg		10	0.00100
Xylene	-		< 0.0100		mg/Kg		10	0.00100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	· /		0.934	mg/Kg	10	0.100	93	40.8 - 133.7
4-Bromofluc	robenzene (4-BFB)		0.676	mg/Kg	10	0.100	68	40.8 - 140.1
Sample: 830	)10 - S. Berm							
Analysis:	Total 8 Metals		•	al Method:	S 6010B		Prep Met	
QC Batch:	24236		Date Ar		2006-01-27		Analyzed	•
Prep Batch:	21286			Preparation:			Prepared	
Analysis:	Total 8 Metals			al Method:	S 7471A		Prep Met	
QC Batch:	24289		Date An		2006-01-30		Analyzed	
Prep Batch:	21346		Sample	Preparation:	2006-01-30		Prepared	By: TP

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RLParameterFlagResultUnitsDilutionRLTotal Silver1.15mg/Kg10.200

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Report Date: January 31, 2006 043995		Work Order Duke-Artes		Page Number: 4 of 18 Eddy County,NM		
sample 83010	continued					
		RL				
Parameter	Flag	Result	Units	Dilution	RL	
Total Arsenic	<u> </u>	<1.00	mg/Kg	1	1.00	
Total Barium		266	mg/Kg	1	1.00	
Total Cadmiur	m	0.542	mg/Kg	1	0.500	
Total Chromiu	mu	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 Seleniun	n	<1.00	mg/Kg	1	1.00	
Sample: 8301	10 - S. Berm					
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep	Method: N/A	
QC Batch:	24274	Date Analyzed:	2006-01-28	Anal	yzed By: DS	
Prep Batch:	21330	Sample Preparation:	2006-01-27	Prepa	ared By: DS	

_			RL			~		
Parameter	Flag	5	Result	Unit	ts	Dilution	RL	
DRO			<50.0	mg/K	g	1	50.0	
					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
n-Triacontane		172	mg/Kg	1	150	114	50 - 150	

#### Sample: 83010 - S. Berm

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Analysis: QC Batch: Prep Batch:	TPH GRO 24211 21279		Date Ana	l Method: lyzed: reparation:	S 8015B 2006-01-25 2006-01-25		Prep Me Analyze Prepare	ed By: MT
			RL					
Parameter	Fla	g	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	ene (TFT)		0.929	mg/Kg	10	0.100	93	68 - 129.6
4-Bromofluc	robenzene (4-BFB)	1	0.781	mg/Kg	10	0.100	78	71.9 - 123.7

#### Sample: 83011 - W. Berm

Analysis: QC Batch: Prep Batch:	BTEX 24210 21279		Analytical Method: Date Analyzed: Sample Preparation:	S 8021B 2006-01-25 2006-01-25	Aı	rep Method: S 5035 nalyzed By: MT repared By: MT
			RL			
Parameter		Flag	Result	Units	Dilution	RL
MTBE			< 0.0100	mg/K.g	10	0.00100
					continued	

Report Date: January 31, 2006	Work Order: 6012505	Page Number: 5 of 18
043995	Duke-Artesia Flare Pit	Eddy County,NM

sample 83011 continued ...

		R	Ĺ				
Parameter H	Flag	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		< 0.010	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)		0.956	mg/Kg	10	0.100	96	40.8 - 133.7
4-Bromofluorobenzene (4-BFB	5)	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:	TP	
Prep Batch:	21346		Sample Preparation:	2006-01-30	Prepared By:	TP	
			RL				
Parameter		Flag	Result	Units	Dilution	RL.	

Flag	Result	Units	Dilution	RL
	1.20	mg/Kg	1	0.200
	<1.00	mg/Kg	1	1.00
	430	mg/Kg	1	1.00
	< 0.500	mg/Kg	1	0.500
	40.1	mg/Kg	1	1.00
	< 0.0400	mg/Kg	1	0.0400
	1.95	mg/Kg	1	1.00
	<1.00	mg/Kg	1	1.00
	Flag	1.20 <1.00 430 <0.500 40.1 <0.0400 1.95	1.20         mg/Kg           <1.00	1.20         mg/Kg         1           <1.00

#### Sample: 83011 - W. Berm

Analysis:	TPH DRO		Analytical Method:	Mod. 80151	В	Prep	Method: N/A
QC Batch:	24274		Date Analyzed:	2006-01-28		Anal	yzed By: DS
Prep Batch:	21330		Sample Preparation:	2006-01-27		Prepa	ared By: DS
			RL				
Parameter	F	lag	Result	Units		Dilution	RL
DRO			<50.0	mg/Kg		1	50.0
	•				Spike	Percent	Recovery
Surrogate	Flag	Result	Units D	ilution	Amount	Recovery	Limits
n-Triacontan	e	205	mg/Kg	1	150	136	50 - 150

Report Date: January 31, 2006 043995	Work Order: 6012505 Duke-Artesia Flare Pit				Page Number: 6 of 1 Eddy County,NN			
Sample: 83011 - W. Berm								
Analysis: TPH GRO	alysis: TPH GRO Analytical Method:			S 8015B		Prep M	ethod: S 5035	
QC Batch: 24211		Date An	alyzed:	2006-01-25		Analyz	ed By: MT	
Prep Batch: 21279				2006-01-25		Prepared By: MT		
		RL						
Parameter Flag		Result		Units	Ι	Dilution	RL	
GRO		<1.00		mg/Kg		10	0.100	
					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)		0.932	mg/Kg	10	0.100	93	68 - 129.6	
4-Bromofluorobenzene (4-BFB)		0.950	mg/Kg	10	0.100	95	71.9 - 123.7	

	Analytical	memou.	S 8021B		Prep Me	ethod: S 5035
3		zed:	2006-01-25 Analy			ed By: MT
	Sample Pre	paration:	2006-01-25		Prepare	d By: MT
	RI					
ç.	Resul	t	Units	Ľ	Dilution	RL
	<0.0100	00	mg/K.g		10	0.00100
	< 0.0100	0	mg/Kg		10	0.00100
	< 0.0100	0	mg/Kg		10	0.00100
	< 0.0100	0	mg/Kg		10	0.00100
<u></u>	< 0.0100	00	mg/Kg		10	0.00100
				Spike	Percent	Recovery
Flag	Result	Units	Dilution	Amount	Recovery	Limits
	1.01	mg/Kg	10	0.100	101	40.8 - 133.7
	0.872	mg/Kg	10	0.100	87	40.8 - 140.1
	Flag	Sample Pre RI 20.0100 20.0100 20.0100 20.0100 20.0100 Flag Result 1.01	<0.0100 <0.0100 <0.0100 <0.0100 <0.0100 Flag Result Units 1.01 mg/Kg	Sample Preparation:         2006-01-25           RL         Units           <	Sample Preparation:         2006-01-25           RL         Units         D           g         Result         Units         D           <0.0100	Sample Preparation:         2006-01-25         Prepare           RL         Units         Dilution $< 0.0100$ mg/Kg         10 $< 1.01$ mg/Kg         10

#### Sample: 83012 - N. Berm

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Analysis:	Total 8 Metals		Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	24236		Date Analyzed:	2006-01-27	Analyzed By:	RR
Prep Batch:	21286		Sample Preparation:	2006-01-26	Prepared By:	DS
Analysis:	Total 8 Metals		Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	24289		Date Analyzed:	2006-01-30	Analyzed By:	TP
Prep Batch:	21346		Sample Preparation:	2006-01-30	Prepared By:	TP
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Total Silver			1.31	mg/Kg	1	0.200
Total Arsenic	2		<1.00	mg/Kg	1	1.00
Total Barium	t		310	mg/Kg	1	1.00
Total Cadmiu	ım		< 0.500	mg/Kg	1	0.500
Total Chromi	ium		12.4	mg/Kg	1	1.00
Total Mercur	у		<0.0400	mg/Kg	1	0.0400

continued ...

Report Date: 043995	: January 31, 200	6			Work Order: 6012505 Duke-Artesia Flare Pit				Page Number: 7 of 18 Eddy County,NM		
sample 8301.	2 continued										
Parameter		Flag	I Res	RL	Units		Dilution		RL		
Total Lead		I lag		.83	mg/Kg		1		1.00		
Total Seleniu	ım		<1.		mg/Kg		1		1.00		
Sample: 830	012 - N. Berm										
Analysis:	TPH DRO		Analytic	al Method:	: Mod. 8015B		Prep	Method:	N/A		
QC Batch:	24274		Date Ana		2006-01-28			yzed By:	DS		
Prep Batch:	21330		Sample I	Preparation	n: 2006-01-27		Prepa	ared By:	DS		
Danamatar	F	lag	RL Bogult		Linita		Dilution		DI		
Parameter DRO	F	lag	Result <50.0		Units mg/Kg	······································	Dilution 1		RL 50.0		
							1				
Surrogate	Flag	Result	Units	т	Dilution	Spike Amount	Percent Recovery		overy mits		
			mg/Kg			150	131		- 150		
Sample: 830 Analysis:	)12 - N. Berm TPH GRO	177	Analytica	l Method:	S 8015B		Prep Ma		5035		
<b>Sample: 830</b> Analysis: QC Batch:	)12 - N. Berm	197	Analytica Date Ana	l Method:	2006-01-25		Prep Mo Analyza Prepare	ed By: N	5035 4T 4T		
Analysis: QC Batch: Prep Batch:	<b>)12 - N. Berm</b> TPH GRO 24211 21279		Analytica Date Ana Sample P RL	l Method: lyzed:	2006-01-25 : 2006-01-25		Analyze Prepare	ed By: N	4T 4T		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter	<b>)12 - N. Berm</b> TPH GRO 24211 21279	lag	Analytica Date Ana Sample P RL Result	l Method: lyzed:	2006-01-25 : 2006-01-25 Units		Analyze Prepare Dilution	ed By: M d By: M	1T 1T RL		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter	<b>)12 - N. Berm</b> TPH GRO 24211 21279		Analytica Date Ana Sample P RL	l Method: lyzed:	2006-01-25 : 2006-01-25		Analyze Prepare	ed By: M d By: M	4T		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter GRO	<b>)12 - N. Berm</b> TPH GRO 24211 21279	ag	Analytica Date Ana Sample P RL Result <1.00	l Method: lyzed: reparation:	2006-01-25 : 2006-01-25 Units mg/Kg	Spike	Analyze Prepare Dilution 10 Percent	ed By: M d By: M Reco	4T 4T <u>RL</u> 0.100 very		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate	012 - N. Berm TPH GRO 24211 21279 Fl		Analytica Date Ana Sample P RL Result <1.00 Result	l Method: lyzed: reparation: Units	2006-01-25 : 2006-01-25 Units mg/Kg Dilution	Amount	Analyze Prepare Dilution 10 Percent Recovery	ed By: M d By: M Reco Lin	AT AT 0.100 very nits		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu	012 - N. Berm TPH GRO 24211 21279 Fl	lag Flag	Analytica Date Ana Sample P RL Result <1.00	l Method: lyzed: reparation:	2006-01-25 : 2006-01-25 Units mg/Kg		Analyze Prepare Dilution 10 Percent	ed By: M d By: M Reco	4T 4T 0.100 very nits 29.6		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo	<b>)12 - N. Berm</b> TPH GRO 24211 21279 Fl Tene (TFT)	lag Flag	Analytica Date Ana Sample P RL Result <1.00 Result 0.989	l Method: lyzed: reparation: Units mg/Kg	2006-01-25 : 2006-01-25 Units mg/Kg Dilution 10	Amount 0.100	Analyze Prepare Dilution 10 Percent Recovery 99	ed By: M d By: M Reco Lin 68 - 1	4T 4T 0.100 very nits 29.6		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo Sample: 830	D12 - N. Berm TPH GRO 24211 21279 Fl ene (TFT) probenzene (4-BFI	lag Flag	Analytica Date Ana Sample P RL Result <1.00 Result 0.989	l Method: lyzed: reparation: Units mg/Kg mg/Kg	2006-01-25 : 2006-01-25 Units mg/Kg Dilution 10	Amount 0.100	Analyze Prepare Dilution 10 Percent Recovery 99	ed By: M d By: M Reco Lin 68 - 1 71.9 -	4T 4T 0.100 very hits 29.6 123.7		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo Sample: 830 Analysis:	012 - N. Berm TPH GRO 24211 21279 Fl ene (TFT) probenzene (4-BFl 013 - N Bottom	lag Flag	Analytica Date Ana Sample P RL Result <1.00 Result 0.989 1.01	l Method: lyzed: reparation: Units mg/Kg mg/Kg Method:	2006-01-25 : 2006-01-25 Units mg/Kg Dilution 10 10	Amount 0.100	Analyze Prepare Dilution 10 Percent Recovery 99 101	ed By: M d By: M Reco Lin 68 - 1 71.9 -	4T 4T 0.100 very hits 29.6 123.7		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo	D12 - N. Berm TPH GRO 24211 21279 Fl ene (TFT) probenzene (4-BFl D13 - N Bottom BTEX	lag Flag	Analytica Date Ana Sample P RL Result <1.00 Result 0.989 1.01	l Method: lyzed: reparation: Units mg/Kg mg/Kg Method: zed:	2006-01-25 : 2006-01-25 Units mg/Kg Dilution 10 10 10	Amount 0.100	Analyze Prepare Dilution 10 Percent Recovery 99 101 Prep M	ed By: M d By: M Reco Lin 68 - 1 71.9 -	4T 4T 0.100 very 1its 29.6 123.7		
Sample: 830 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo Sample: 830 Analysis: QC Batch: Prep Batch:	012 - N. Berm         TPH GRO         24211         21279         Fi         ene (TFT)         orobenzene (4-BFI         013 - N Bottom         BTEX         24210         21279	lag Flag B)	Analytica Date Ana Sample P RL Result <1.00 Result 0.989 1.01 Analytical I Date Analy Sample Pre	l Method: lyzed: reparation: Units mg/Kg mg/Kg Method: zed: paration:	2006-01-25 2006-01-25 Units mg/Kg Dilution 10 10 S 8021B 2006-01-25 2006-01-25	Amount 0.100 0.100	Analyze Prepare Dilution 10 Percent Recovery 99 101 Prep M Analyze Prepare	ed By: M d By: M Reco Lin 68 - 1 71.9 -	4T 4T 0.100 very 123.7 5035 4T 4T		
Sample: 830 Analysis: QC Batch: Prep Batch: Prep Batch: GRO Surrogate Trifluorotolu 4-Bromofluo Sample: 830 Analysis: QC Batch: Prep Batch: Prep Batch:	012 - N. Berm         TPH GRO         24211         21279         Fi         ene (TFT)         orobenzene (4-BFI         013 - N Bottom         BTEX         24210         21279	lag Flag	Analytica Date Ana Sample P RL Result <1.00 Result 0.989 1.01 Analytical I Date Analy Sample Pre RL Result	I Method: lyzed: reparation: Units mg/Kg mg/Kg Method: zed: paration:	2006-01-25 2006-01-25 Units mg/Kg Dilution 10 10 S 8021B 2006-01-25 2006-01-25 2006-01-25 Units	Amount 0.100 0.100	Analyze Prepare Dilution 10 Percent Recovery 99 101 Prep Ma Analyze Prepare	ed By: M d By: M Reco Lin 68 - 1 71.9 -	4T 4T 0.100 very 123.7 5035 4T 4T RL		
Sample: 830 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo Sample: 830 Analysis: QC Batch:	012 - N. Berm         TPH GRO         24211         21279         Fi         ene (TFT)         orobenzene (4-BFI         013 - N Bottom         BTEX         24210         21279	lag Flag B)	Analytica Date Ana Sample P RL Result <1.00 Result 0.989 1.01 Analytical I Date Analy Sample Pre	I Method: lyzed: reparation: Units mg/Kg mg/Kg mg/Kg Method: zed: paration:	2006-01-25 : 2006-01-25 Units mg/Kg Dilution 10 10 S 8021B 2006-01-25 2006-01-25 2006-01-25 Units mg/Kg	Amount 0.100 0.100	Analyze Prepare Dilution 10 Percent Recovery 99 101 Prep M Analyze Prepare	ed By: M d By: M Reco Lin 68 - 1 71.9 - ethod: S ed By: M d By: M	4T 4T 4T 0.100 very hits 29.6 123.7 5035 4T 4T 4T RL 00100		
Sample: 830 Analysis: QC Batch: Prep Batch: Prep Batch: GRO Surrogate Trifluorotolu 4-Bromofluo Sample: 830 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter MTBE	012 - N. Berm         TPH GRO         24211         21279         Fi         ene (TFT)         orobenzene (4-BFI         013 - N Bottom         BTEX         24210         21279	lag Flag B)	Analytica Date Ana Sample P RL Result <1.00 Result 0.989 1.01 Analytical I Date Analy Sample Pre RL Result <0.0500	I Method: lyzed: reparation: Units mg/Kg mg/Kg mg/Kg mg/Kg sed: paration:	2006-01-25 2006-01-25 Units mg/Kg Dilution 10 10 S 8021B 2006-01-25 2006-01-25 2006-01-25 Units	Amount 0.100 0.100	Analyze Prepare Dilution 10 Percent Recovery 99 101 Prep M Analyze Prepare Dilution 50	ed By: M d By: M Reco Lim 68 - 1 71.9 - ethod: S ed By: M d By: M d By: M	4T 4T 0.100 very <u>iits</u> 29.6 123.7		

<sup>1</sup>Sample ran at dilution due to surfactants.

······································	Report Date: January 31, 2006	Page Number: 8 of 18	Work Order: 6012505
	043995	Eddy County,NM	Duke-Artesia Flare Pit

sample 83013 continued ...

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Parameter Flag	g	Resu	lt	Units	Ľ	vilution	RL
Xylene		<0.050	0	mg/Kg		50	0.00100
					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-BFB)	3	1.02	mg/Kg	50	0.100	20	40.8 - 140.1

#### Sample: 83013 - N Bottom

Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch:	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:	S 3050B RR DS N/A TP TP
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Total Silver			<0.200	mg/Kg	1	0.200
Total Arsenic			4.56	mg/Kg	1	1.00
Total Barium			59.5	mg/Kg	1	1.00
Total Cadmiu	m		22.6	mg/Kg	1	0.500
Total Chromit	um		93.5	mg/Kg	1	1.00
Total Mercury	y		0.115	mg/Kg	1	0.0400
Total Lead			17.9	mg/Kg	1	1.00
Total Seleniu	m		<1.00	mg/Kg	11	1.00

#### Sample: 83013 - N Bottom

Analysis:	TPH DRO		Analytical Met	hod: Mod. 8	015B	Prep	Method:	N/A
QC Batch:	24292		Date Analyzed	: 2006-0	1-30	Analy	zed By:	DS
Prep Batch:	21349		Sample Prepara	ation: 2006-01	1-30	Prepa	red By:	DS
			RL					
Parameter	Fl	ag	Result	Un	its	Dilution		RL
DRO			682	mg/l	Кg	1		50.0
					Spike	Percent	Reco	very
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Lim	nits
n-Triacontan	e <u>4</u>	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

<sup>&</sup>lt;sup>2</sup> Surrogate recovery out due to dilution caused by surfactants in the sample.
<sup>3</sup> Surrogate recovery out due to dilution caused by surfactants in the sample.
<sup>4</sup> High surrogate recovery due to peak interference.

Report Date: January 31, 200 043995	6		Work Orde Duke-Artes	r: 6012505 ia Flare Pit	Page Number: 9 of 1 Eddy County,N			
		RL				Dilution		
Parameter F	lag	Result		Units	]	RL		
GRO	5	<5.00		mg/Kg		50	0.100	
					Spike	Percent	Recovery	
Surrogate	Fla	g Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)	6	1.17	mg/Kg	50	0.100	23	68 - 129.6	
4-Bromofluorobenzene (4-BF)	B) <sup>7</sup>	1.17	mg/Kg	50	0.100	23	71.9 - 123.7	

#### Sample: 83014 - S. Bottom

16

Analysis: BTEX QC Batch: 24210 Prep Batch: 21279		Analytical Date Analy Sample Pre	zed:	S 8021B 2006-01-25 2006-01-25		Prep Metho Analyzed F Prepared B		
		RI						
Parameter H	Flag	Resul	ŧ	Units	D	vilution	RL	
MTBE		< 0.0100	00	mg/Kg		10	0.00100	
Benzene		< 0.0100	0	mg/Kg		10	0.00100	
Toluene		< 0.0100	)	mg/Kg		10	0.00100	
Ethylbenzene		< 0.0100	)	mg/Kg		10	0.00100	
Xylene		< 0.0100	00	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	5)	0.706	mg/Kg	10	0.100	71	40.8 - 140.1	

#### Sample: 83014 - S. Bottom

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	24236	Date Analyzed:	2006-01-27	Analyzed By:	RR
Prep Batch:	21286	Sample Preparation:	2006-01-26	Prepared By:	DS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	24289	Date Analyzed:	2006-01-30	Analyzed By:	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 Arsenio	2	<1.00	mg/Kg	1	1.00
Total Barium	l	189	mg/Kg	1	1.00
Total Cadmin	um	1.73	mg/Kg	1	0.500
Total Chrom	ium	18.8	mg/Kg	1	1.00
Total Mercur	у	< 0.0400	mg/Kg	1	0.0400
Total Lead		11.6	mg/Kg	1	1.00
Total Seleniu	m	<1.00	mg/Kg	1	1.00

<sup>5</sup>Sample ran at dilution due to surfactants.
 <sup>6</sup>Surrogate recovery out due to dilution caused by surfactants in the sample.
 <sup>7</sup>Surrogate recovery out due to dilution caused by surfactants in the sample.

Report Date: January 31, 20 043995	006		Work Order Duke-Artesi				umber: 10 of 18 Idy County,NM
Sample: 83014 - S. Bottom	1						
Analysis: TPH DRO			al Method:	Mod. 8015B			Method: N/A
QC Batch: 24274		Date An		2006-01-28			zed By: DS
Prep Batch: 21330		Sample 1	Preparation:	2006-01-27		Prepa	red By: DS
		RL					
Parameter	Flag	Result		Units		Dilution	RL
RO		<50.0		mg/Kg		1	50.0
		<b>T</b> T *-	~	1	Spike	Percent	Recovery
Surrogate Flag		Units		lution	Amount	Recovery	Limits
n-Triacontane	198	mg/Kg	5	1	150	132	50 - 150
Sample: 83014 - S. Botton	1						
Analysis: TPH GRO		Analytica	d Method:	S 8015B		Prep Me	thod: S 5035
QC Batch: 24211		Date Ana		2006-01-25		Analyze	
Prep Batch: 21279			reparation:	2006-01-25		Prepared	
		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
Frifluorotoluene (TFT)		0.912	mg/Kg	10	0.100	91	68 - 129.6
4-Bromofluorobenzene (4-E	<u>SFB)</u>	0.817	mg/Kg	10	0.100	82	71.9 - 123.7
<b>Method Blank (1)</b> QC I	Batch: 24210						
Parameter	Flag		MI Res		Uni	ite	RL
MTBE	I lag		<0.01		mg/]		0.001
Benzene			< 0.003		mg/l		0.001
Toluene			< 0.003		mg/]		0.001
Ethylbenzene			< 0.003		mg/l	-	0.001
Kylene			< 0.01		mg/l		0.001
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Frifluorotoluene (TFT)		0.922	mg/Kg	10	0.100	92	74.5 - 114

#### Method Blank (1) QC Batch: 24211

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

Report Date: Januar 043995	y 31, 2006			Vork Order: 60 Duke-Artesia Fla			mber: 11 of 13 dy County,NM	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TF	T)		1.08	mg/Kg	10	0.100	108	81.8 - 109
4-Bromofluorobenze	ne (4-BFB)		0.794	mg/Kg	10	0.100	79	50.7 - 113
Method Blank (1)	QC Batcł	n: 24236						
<b>N</b>				MDL			· •.	
Parameter		Flag		Result		-	nits	RL
Total Silver				< 0.0444			g/Kg	0.2
Total Arsenic				< 0.228			g/Kg	1
Total Barium				< 0.601			g/Kg	1
Total Cadmium				< 0.0795			g/Kg	0.5
Total Chromium				< 0.125			g/Kg	1
Total Lead Total Selenium				<0.650 <0.767			g/Kg g/Kg	1
Method Blank (1)	000.0.1							
	QC Batch	1: 24274 Flag		MDL Result		Uni	ts	Rt
Parameter	QC Batch	1: 24274 Flag		Result		Uni mg/I		
Parameter	QC Batch					mg/I	Кg	50
Parameter DRO		Flag	Unite	Result <12.0		mg/I Spike	Kg Percent	50 Recovery
Parameter DRO Surrogate	Flag		Units mg/Kg	Result	n	mg/I	Кg	
Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter		Flag Result 185		Result <12.0 Dilutio	n	mg/I Spike Amount	Kg Percent Recovery 123	50 Recovery Limits
Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter Total Mercury Method Blank (1)	Flag	Flag Result 185 185 185 185 185 185 185 185		Result <12.0 Dilutio 1 MDL Result <0.00880	<u>n</u>	mg/I Spike Amount 150 Ur mg	Kg Percent Recovery 123	50 Recovery Limits 50 - 150 RL 0.04
Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter Total Mercury Method Blank (1) Parameter	Flag QC Batch	Flag Result 185 n: 24289 Flag		Result <12.0 Dilutio 1 MDL Result <0.00880	<u>n</u>	mg/I Spike Amount 150 Ur mg/	Kg Percent Recovery 123	50 Recovery Limits 50 - 150 RL 0.04
Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter Total Mercury Method Blank (1) Parameter	Flag QC Batch	Flag Result 185 185 185 185 185 185 185 185		Result <12.0 Dilutio 1 MDL Result <0.00880	n	mg/I Spike Amount 150 Ur mg	Kg Percent Recovery 123	50 Recovery Limits 50 - 150 RL 0.04
Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter Total Mercury Method Blank (1) Parameter DRO	Flag QC Batch	Flag Result 185 n: 24289 Flag n: 24292 Flag	mg/Kg	Result <12.0 Dilutio 1 MDL Result <0.00880 MDL Result <10.9		mg/I Spike Amount 150 Ur mg/I Uni mg/I Spike	∑g Percent Recovery 123 its /Kg ts ∑g Percent	50 Recovery Limits 50 - 150 RL 0.04 RL 50 Recovery
Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter Total Mercury Method Blank (1) Parameter DRO Surrogate n-Triacontane	Flag QC Batch	Flag Result 185 185 185 185 185 185 185 185		Result <12.0 Dilutio 1 MDL Result <0.00880		mg/I Spike Amount 150 Ur mg/I Uni mg/I	ζg Percent Recovery 123 its /Kg ts ζg	50 Recovery Limits 50 - 150 RL 0.04 RL 50

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

Report Date: Janu 043995		Wo Dul		Page Number: 12 of 18 Eddy County,NM						
Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
MTBE	0.829	0.909	mg/Kg	10	0.100	< 0.0152	83	9	81.2 - 105.8	10.6
Benzene	0.982	0.954	mg/Kg	10	0.100	< 0.0333	98	3	83.6 - 107.3	20
Toluene	1.01	0.994	mg/Kg	10	0.100	< 0.0353	101	2	81.8 - 108.6	20
Ethylbenzene	0.988	0.972	mg/Kg	10	0.100	< 0.0339	99	2	76.4 - 113.9	20
Xylene	2.95	2.91	mg/Kg	10	0.300	< 0.103	98	1	75.4 - 112.7	20

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

	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

	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

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	246	248	mg/Kg	1	250	<12.0	98	1	70 - 130	20
	very is based or		0 0	based on					/0 - 150	20

continued...

Report Date: Janu 043995	eport Date: January 31, 2006 43995				c Order: 6012 Artesia Flar		Page Number: 13 of 18 Eddy County,NM			
control spikes cont	tinued									
•		CS	LCSD			Spike		LCS	LCSD	Rec.
Surrogate	Re	sult	Result	Units	Dil.	Amount	t	Rec.	Rec.	Limit
	L	CS	LCSD			Spike		LCS	LCSD	Rec.
Surrogate	Re	sult	Result	Units	Dil.	Amount	t	Rec.	Rec.	Limit
n-Triacontane	1:	86	189	mg/Kg	1	150		124	126	50 - 150
Laboratory Cont	trol Spike (LC	CS-1)	QC Batch: 2	24289						
	LCS	LCSD			Spike	Matrix			Rec.	RPD Limit
Daram	Result	Result	Unite	Dil	Amount	Result	Rec	RPD	L imit	

	LUS	LCSD			бріке	Matrix			Rec.	KPD
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

Report Date: January 31, 2006	Work Order: 6012505	Page Number: 14 of 18
043995	Duke-Artesia Flare Pit	Eddy County,NM

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 snike result RPD is based on the snike and snike duplicate result											

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) 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

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

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

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

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

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

Report Dat 043995	te: January	31, 2006			Work Order: 6012 Duke-Artesia Flare				umber: 15 of 1 idy County,NN
Surrogate				MSD Result U	Jnits Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triaconta	ine	213	595	598 m	g/Kg 1	150	397	399	57.5 - 13
Standard (	(ICV-1)	QC Batcl	h: 24210						
				ICVs	ICVs	ICVs	Per	cent	
				True	Found	Percent		overy	Date
Param		Flag	Units	Conc.	Conc.	Recovery		nits	Analyzed
MTBE			mg/Kg	0.100	0.0895	90		115	2006-01-23
Benzene			mg/Kg	0.100	0.0987	99	85 -		2006-01-2
Toluene			mg/Kg	0.100	0.103	103	85 -		2006-01-25
Ethylbenze	ne		mg/Kg	0.100	0.100	100	85 -		2006-01-23
Xylene			mg/Kg	0.300	0.301	100	85 -		2006-01-25
<u>tyrene</u>								113	2000 01 2
Standard (	(CCV-1)	QC Bate	ch: 24210						
				CCVs	CCVs	CCVs	Per	cent	
				True	Found	Percent		overy	Date
aram		Flag	Units	Conc.	Conc.	Recovery	Lin	-	Analyzed
ATBE		1146	mg/Kg	0.100	0.0957	96	85 -		2006-01-2
Benzene			mg/Kg	0.100	0.0968	90 97	85 -		2006-01-2
Foluene			mg/Kg	0.100	0.101	101	85 -		2006-01-2
Ethylbenze	ne		mg/Kg	0.100	0.0981	98	85 -		2006-01-2
Xylene	iic.		mg/Kg	0.100	0.294	98 98	85 -		2006-01-2
Tylene	· · ·	· • • • • • • • • • • • • • • • • • • •	ng	0.300	0.294	70	- 05		2000-01-2.
Standard (	(ICV-1)	QC Batcl	h: 24211						
				ICVs	ICVs	ICVs	Perce	ent	
				True	Found	Percent	Recov	very	Date
Param	Flag		Units	Conc.	Conc.	Recovery	Limi	its	Analyzed
GRO			mg/L	1.00	0.958	96	85 - 1	15	2006-01-25
Standard (	CCV1)	OC Bat	ch: 24211						
Januaru	(((-1)	QC Dan	211, 27211	CCVs	CCVs	CCVs	Perce	· • •	
				True	Found	Percent	Recov		Date
Param	Flag		Units	Conc.	Conc.	Recovery	Limi		Analyzed
	riag		mg/L	1.00	0.947	95	85 - 1		2006-01-25
			mg/L	1.00	0.947	95	85 - 1	15	2006-01-23
GRO	(ICV-1)	QC Batel	h: 24236						
GRO Standard (	(ICV-1)	QC Batel	h: 24236	ICVs	ICVs	ICVs	Por	cent	
GRO	(ICV-1)	QC Batel	h: 24236	ICVs True	ICVs Found	ICVs Percent		cent	Data
GRO Standard (	(ICV-1)	-		True	Found	Percent	Reco	overy	Date Analyzed
GRO Standard ( Param		QC Batcl	Units	True Conc.	Found Conc.	Percent Recovery	Reco Lit	overy nits	Analyzed
GRO Standard (		-		True Conc. 0.125	Found Conc.	Percent	Reco Lir 90 -	overy	

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<sup>12</sup>High surrogate recovery due to peak interference. <sup>13</sup>High surrogate recovery due to peak interference.

Report Dat 043995	e: January	31, 2006	_, _		ork Order: 6012: ke-Artesia Flare			Number: 16 of 18 Eddy County,NM
standard co	ontinued							
				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Рагат		Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Bariu	m		mg/Kg	1.00	0.970	97	90 - 110	2006-01-27
Total Cadm	ium		mg/Kg	1.00	0.984	98	90 - 110	2006-01-27
Total Chror	nium		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 Selen	ium		mg/Kg	1.00	0.977	98	90 - 110	2006-01-27
Standard (	CCV-1)	QC Batch:	24236					
				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 Arsen	ic		mg/Kg	1.00	0.981	98	90 - 110	2006-01-27
Total Bariu	m		mg/Kg	1.00	0.967	97	90 - 110	2006-01-27
Total Cadm	ium		mg/Kg	1.00	0.984	98	90 - 110	2006-01-27
Total Chror	nium		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 Selen	ium		mg/Kg	1.00	0.977	98	90 - 110	2006-01-27
Standard (	ICV-1)	QC Batch: 2	24274					
				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Ur	nits	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	Ur	nits	Conc.	Conc.	Recovery	Limits	Analyzed
			/ <u>// a</u>	250	272	100	75 125	2006 01 20

Standard (ICV-1) QC Batch: 24289

mg/Kg

DRO

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			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

272

109

75 - 125

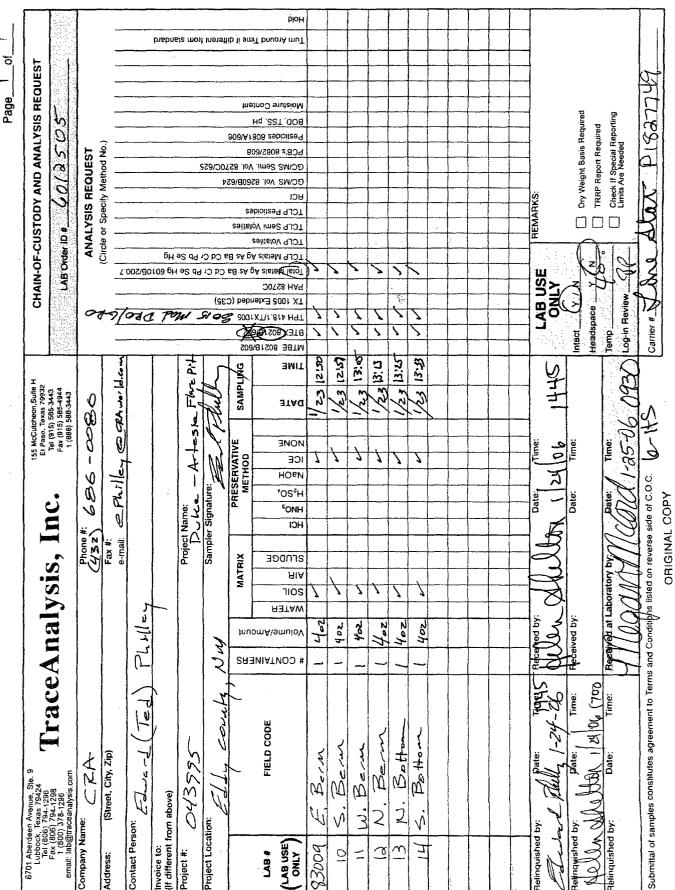
2006-01-28

250

Standard (CCV-1) QC Batch: 24289

Report Dat 043995	te: January	31, 2006			ork Order: 6012 uke-Artesia Flare		-	Number: 17 of 18 Eddy County,NM
Param		Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Merc	ury		mg/L	0.00500	0.00493	99	80 - 120	2006-01-30
Standard (		QC Batcl		ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param DRO	Flag		Units ng/Kg	<u>Conc.</u> 250	<u>Conc.</u> 247	Recovery 99	Limits 57.5 - 139	Analyzed 2006-01-30
Standard (	(CCV-1)	QC Bate	h: 24292					
Param	Flag		Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		r	ng/Kg	250	248	99	57.5 - 139	2006-01-30

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043995

Report Date: January 31, 2006

Work Order: 6012505 **Duke-Artesia Flare Pit** 

#### Page Number: 18 of 18 Eddy County,NM

### APPENDIX B

# FORM C-144 PIT OR BELOW-GRADE TANK REGISTRATION OR CLOSURE

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

## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 June 1, 2004

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

### Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator:	Telephone	e-mail address:	······································		
Address:					
Facility or well name:	API #:	U/L or Qtr/Qtr	Sec	Т	R
County:	Latitude	Longitude		NAD: 1927	/ 🗌 1983 🔲
Surface Owner: Federal 🗌 State 🗋 Private 🛄 Indian 🗍					
<u>Pit</u>		Below-grade tank			
Type: Drilling Production Disposal		Volume:bbl Type of fluid:			
Workover 🔲 Emergency 🗌		Construction material:			
Lined 🗋 Unlined 🛄		Double-walled, with leak detection? Yes 🗌 If not	, explain why	not.	
Liner type: Synthetic 🗌 Thicknessmil Clay 🗌					
Pit Volumebbl					
Depth to ground water (vertical distance from bottom of pit t	o seasonal	Less than 50 feet	(20 points)		
high water elevation of ground water.)	o seasonai	50 feet or more, but less than 100 feet	(10 points)		
ngi water elevation of ground water.		100 feet or more	( 0 points)	I	
Wellhead protection area: (Less than 200 feet from a private	domestic	Yes	(20 points)		
water source, or less than 1000 feet from all other water sour		No	(0 points)	i.	
Distance to surface water: (horizontal distance to all wetland	la plavos	Less than 200 feet	(20 points)		
		200 feet or more, but less than 1000 feet	(10 points)		
irrigation canals, ditches, and perennial and ephemeral water	courses.)	1000 feet or more	( 0 points)		
		Ranking Score (Total Points)			

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

Additional Comments:	 	 	
			· · · · · · · · · · · · · · · · · · ·

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

Date:

Printed Name/Title

Signature \_

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

Approval: Printed Name/Title \_

Signature

# APPENDIX C

# ARTESIA AERATION LLC PERMIT





### 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 Aeration is required to notify the Director of any facility expansion or process modification and to file the appropriate materials with the Division.

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

## APPENDIX D

### FORM C-138 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE AND CERTIFICATE OF WASTE STATUS

Ship of Rev Mexico       Ship of	Form C-135 Real Sector 4, 200 Subort Cripted Fors I Cripted Real Cripted Real Cripted
READEST FOR AFTRIVAL TO ACCEPT	T'EXED WAST'S
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## CERTIFICATE OF WASTE STATUS

¥r.	1. Generator Name and Address	2. Destimikut Neme:
	3. Originating Site (mane):	Location of Waste (Streat addreas &/or ULSTR):
	4. Scarce and Description of Waste	

# I\_\_\_\_\_ 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

Other (description)

and that nothing has been added to the event or non-exempt non-bazardons waste defined above.

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

MSDS Information

RCRA Hazardous Waste Analysis

Chain of Custody

This wasts is in compliance with Regulated Levels of Naturally Occuring Redioscrive Material (NORM) pursuant to 20 NMAC 3.1 submart 1403.C and D.

Name (Original Signature):

Date:

### OCD DCP Midstream LP. Sites Discussion Meeting (Stephen Weathers, Daniel Dick, et. al) February 1, 2007

#### GPM Artesia GP (GW-23)

On 5/26/2006, Stephen Weathers PG 303-605-1718 (swweathers@duke-energy.com) submitted a Flare Pit Soil Remediation & Closure Work plan by Conestoga-Rovers & Assoc. to Mike Bratcher. Upon your approval, DEFS will move forward w/ the closure activities. One hard copy of the work plan will also be mailed next week (OCD Santa Fe never received it).

Stephen Weathers, et al. will present the info. during the 1/31/2007 meeting in Santa Fe.

### Lee Compressor Station (GW-227) (Also known as the Gillespie/Feagan) A-24-T17 S 35 E

Closure work plan dated 9/5/2006 mailed to Ben Stone to complete a site closure.

The work plan was develop. Based on DEFS decision to cancel the discharge plan GW-227 and close the site. The closure plan is submitted to the OCD for approval.

Closure Activities: DEFS will remove all remaining equip. from site. The site will be visually inspected to determine if hydrocarb. impacted soil is present at the site. If no HC impacted soils are encountered, the site will be leveled and reseeded with native grass. If HC impacted soils are encountered, the impact soil will be remediated following NMOCD Guidelines for Remed. of Leaks, Spills, & Releases, 8/1993 and using: Benz (10 ppm), BTEX (50 ppm), and TPH (100 ppm). A PID might be used to screen potential HC impacted soil. If headspace is <= 100 ppm, the PID reading will be used as a substitute to lab analysis for benz./BTEX. If the PID is not used for screening confirm. soil samples will be analyzed for BTEX using EPA 8021B.

HC impact soils that are found to be greater than cleanup criteria will be excavated and properly disposed at an NMOCD approved facility. Confirmation soil samples will then be collected within the base and sidewalls of the excavation to confirm that the HC impacted soils have been removed to below the NMOCD cleanup stds. for this site.

After confirmation soil samples confirm the impacted soils has been removed to below the NMOCD cleanup Stds., the excavation will be backfilled with clean fill mtl. and the area reseeded w/ native grass. A closure report will be completed summarizing all field activities and analytical results. The closure report will also request that no further action will be needed at this site. Upon approval of this work plan, field activities will be scheduled. A 48 hr. notice will be given to the NMOCD Hobbs DO informing them of the start up of the field activities.

### LEE GP (GW-2)

Dick Daniel (DIDick@dcpmidstream.com)

Received Q4 2006 GW Monitor Rpt. On 1/30/07 w/ recommendations for certain activities, i.e., free-product recovery in MWs 5 and 15 w/ restart analysis on MW-8 recommended.

Expired DP and OCD msg. to Ruth Lang on 12/21/06: the Lee Compressor Station (GW-227) correspondence dated 12/28/06 indicates that the facility will remain inactive and follow the closure plan to permanently close the facility. Upon receipt of the closure plan info. and verification that contamination exists at the facility with some photos to display what the site currently looks like, the OCD may close the DP?

### **DUKE LINAM RANCH GP (GW-15)**

Third Qtr. 2006 GW Monitoring Report dated January 30, 2007.

GW conditions remain stable. Next monitor event is scheduled for first qtr. 2007. Next annual report for site will be prepared following completion of first qtr. 2007 monitor activities.

On 11/1/2006 Dick Daniel (didick@duke-energy.com) submitted the Annual GW Rpt. 2005-2006. The summary rpt. for Q3 2005 and Q1 2006 GW sampling event. The data indicate that GW conditions remain stable. The next monitor event was performed in 9/2006. The next annual rpt. for the site will be prepared following the completion of the Q1 2007 monitor activities & review & validation of the analytical results. The water tables rose substantially more in MW-1 and 2 than in MW-3, 7 & 9. MW-1 & 2 are located in or adjacent to a natural drainage swale that has been blocked in the S part of site to produce an internally drained condition. The other 3 wells are outside of this area. Unusually high precip in 2004-2005 resulted in more GW mounding beneath the closed drain swale than the rest of the site. The water table in MWs 1 & 2 began to recede after the precip. patterns returned to normal. Water tables in the other 3 wells continue to rise suggesting a more dampened relationship between the precipitation and resulting chgs. in the water table elevations.

MW-7 was not included in the piezometer maps. The level in MW-7 was not included in these maps. Including this well results in a water-table configuration that suggests radial flow from the center of the property. MW-7 has never contained measurable BTEX. This suggests the relatively higher water table in the central part of site is localized so contours should not be carried to the NW. FPH thick measurements for 9/29/2005 (MW-4=0.68 in & MW-6=4.23 in.) and 3/22/2006 (MW-4=0.76 & MW-6=3.69 in.). Only MWs 10 & 10D exceeded BTEX Stds. Any dissolved phase BTEX that emanate from FPH at MW-4 & MW-6 attenuate to below the method reporting limits before migrating to the vicinity of MW-1 (cross gradient) or MW-8 (down gradient). BTEX measured at MW-10 and 10D attenuate to concentrations that are slightly above MW-9 or below the reporting limits (MW-12 & 13) at the interior down gradient wells. The above have remained constant since ~ 6/2001. This indicates that BTEX distribution and attenuating mechanism that controls it are equilibrated.

The affected areas are min. of 1,000 ft. from the nearest down gradient property boundary. Wells containing FPH are in an active gas processing area so the safety risks inherent to restarting FPH collection more than offsets the environmental benefits that would be associated with the activity. The data establishes that dissolved phase releases from the FPH that is present in this area are attenuated approx. 1,000 ft. from the nearest down-gradient property boundary. The next semi-annual GW monitor event is scheduled for the Q3 2006. Contact Michael Stewart PE 303-948-7733 if you have questions.

### **HOBBS BOOSTER CS (GW-44)**

Project Summary: Hobbs Booster Station, (Discharge Plan GW-044) (Units C and D, Section 4, Township 19 South, Range 38 East)

Summary date: October 10, 2006

Project history:

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DEFS inherited Hobbs Booster Station (Former Gas Plant) when it acquired the assets of GPM. Site investigation activities began in July 1999. Plume delineation was completed in June 2003.

Two remediation systems are present at the site. An air sparge system was installed in January 2004 to control cross-gradient off site migration of dissolved phase hydrocarbons. It has operated on a near continual basis except for a couple of periods when it was under repair, and the groundwater data verifies that it is controlling off-site migration.

A free phase hydrocarbon (FPH) collection system became operational in January 2005 in the center of the site. It has operated on a regular schedule except for a couple of brief periods when it was down for repairs. The system has effectively remove FPH since it was started. The system is inspected and maintained on a regular basis DEFS is currently evaluating the potential of adding vacuum to the system to increase the production rate and capture zone of each well.

Current Project Status:

The hydrocarbon plume has been delineated to below the method detection limits. There is no evidence of plume expansion. Operation of the air sparge system is necessary to control dissolved-phase hydrocarbon releases to the south. FPH collection will continue indefinitely.

Detection level Groundwater monitoring continues at the site on a quarterly basis. Operation of the air sparge and the FPH collection system will continue indefinitely.

On 12/17/06 Michael Stewart & Steve Weathers notified OCD that Trident Environmental will conduct quarterly monitor well gauging & GW sampling and the following: SWLs in MW, RW and temp. wells using an oil/water interface problem; Collect GW samples for BTEX w/ QA/QC; Purge water disposed at NMOCD approved facility. Project site location: 1625 W. Marland, Hobbs (C&D 4-19S-36E). Sampling will begin on 12/20/06.

On 10/30/06, Stephen Weathers 303-605-1718 (swweathers@duke-energy.com) submitted additional vacuum enhancement testing for the free phase hydrocarbon extraction system located at C&D 4-19S-38E. DEFS would like to complete this test early next week. Upon completion of the field activities DEFS will complete an assessment report summarizing the results of the test.

The AEC 10/30/06 summary of initial assessment activities & recom. for further evaluation of adding vacuum enhancement to the free phase hydrocarbon extraction system. Depth (BTOC) is about 50 feet. The above SWL indicate that recent heavy rains have not affected the water table in a fashion similar to 2004 precip. This fact is important because the WT historically declined at a rate of about 1 ft/yr. this trend should continue to expose more of the screened interval in these wells to make them available to vacuum effects.

FPH thickness ranges from about 0.43 in. to 10.63 in. in TW-C, OW-25W & 50W, OW-100W, OW-25S, OW-50S, OW-25 E & OW-25 N. There is a gravel interval at about 34 to 64 feet BGL.

On 10/23/2006, Stephen Weathers 4-303-605-1718 (swweathers@duke-energy.com) submitted an electronic copy of the 2005-2006 Annual GW Monitor Rpt. along w/ a cover letter.

The report is missing & OCD should request another copy.

#### **DUKE APEX CS (GW-163)**

old conoco

Trisha Elizondo (ARCADIS) (Trisha.elizondo@arcadis-us.com)

On 1/17/07, notification that ARCADIS will be conducting mo. Product recovery and PCA Junction on 1/22-23/07. Routine product recovery is on-going at site through hand-bailing. MWs at 2 locations will be surveyed to help w/ GW flow & potentiometric surface.

#### **DUKE HOBBS GP (GW-175)**

old conoco Stephen Weathers (SWWeathers@dcpmidstream.com)

Project Summary: Hobbs Gas Plant Unit G, Section 36 Township 18 South, Range 36 East

Summary date: October 10, 2006

Project history:

DEFS acquired the Hobbs Gas Plant in March of 2004. Ground water monitoring wells (6 wells) were installed at the site during the due diligence phase of the acquisition. Benzene was identified above the WQCC standards in one of the groundwater monitoring wells.

Current Project Status:

Groundwater monitoring continues at the site on a quarterly basis.

On 1/29/07, 4Q 2006 GW monitor rpt. submitted. Two MWs exhibit elevated benzene levels. SE and E-central portions of site adjacent to process equip. Qtly sampling continues. Results of Q1 2007 sampling will be reported in A1 2007 GW monitor report. Potentiometric surface maps for site in future reports can be expected.

### **Remediation Sites**

### C-line Release Site (1RP-401-0)

Project Summary: C-line Release site (1RP-401-0) (Unit O, Section 31, Township 19 South, Range 37 East)

Summary date: October 10, 2006

Project history: Pipeline Release

Duke Energy Field Services C-Line Pipeline Release occurred in May of 2002. The release occurred on New Mexico State Land. Environmental Plus, Inc. was contracted to complete the soil remediation. Approximately 3,868 cubic yards of impacted soil was excavated. 2,707 cubic yards of impacted soils was properly disposed and the remaining impacted soil was blended/shredded until below cleanup standards and placed back into the excavation. During the soil remediation, groundwater was determined to be impacted with hydrocarbons. The groundwater characterization activities began in fourth quarter 2002. A total of 9 groundwater monitor wells were installed. Active free phase hydrocarbon (FPH) removal initiated in November 2003. A soil vapor extraction system was installed in October 2004. The system was expanded to include a second well in June 2005. No FPH has been measured since March 2006 even after the SVE system was turned off (but remains at the site) in June 2006.

Current Project Status:

All FPH has been removed as discussed above. The hydrocarbon plume has been delineated. There is no evidence of plume expansion, and, in fact, the plume may actually be contracting.

Groundwater monitoring continues at the site on a quarterly basis. Site monitoring could be decreased to semi-annual.

Received Q3 2006 GW monitor rpt. from Stephen Weathers on 12/18/06.

#### Eldridge Ranch (AP-33)

Stephen Weathers (SWWeathers@dcpmidstream.com)

Project Summary: Eldridge Ranch, (Abatement Plan AP-33) (Unit P, Section 21, Township 19 South, Range 37 East)

Summary date: October 10, 2006

Project history: Pipeline Release

DEFS initiated investigative activities in June 2002 following notification by NMOCD. Site characterization activities were largely completed by the fourth quarter of 2003. The boundaries of detectable hydrocarbons have been delineated.

4

DEFS submitted the Stage 1 Abatement Site Investigation Report (ASIR) on February 11, 2004 to the New Mexico Oil Conservation Division (OCD). In the ASIR, DEFS committed to continuing two activities (groundwater monitoring and free phase hydrocarbon (FPH) removal) independent of the ASIR review timeframe. The OCD has not commented on the ASIR. Groundwater monitoring and FPH removal activities continue on a regular basis.

**Current Project Status:** 

FPH recovery has been attempted at the site with limited results. The FPH at the site is generally limited in thickness to less than one foot. In addition, the FPH appears to be relatively immobile based upon the inability of the automatic collection systems to collect the liquids.

The hydrocarbon plume has been delineated to below the method detection limits. There is no evidence of plume expansion; however, concentrations the interior of the plume appears to exhibit nominal increases and decrease in response to seasonal precipitation.

Groundwater monitoring continues at the site on a quarterly basis. Site monitoring could be decreased to semi-annual without jeopardizing environmental impacts. FPH removal continues as site conditions warrant.

On 1/26/07, received Q4 2006 GW monitor rpt. for AP-33 near Monument NM. Some conclusions: FPH mobility appears to be limited based on historic bail down/recovery tests and failure to reappear; FPH thick is less than 0.8 ft. in six wells and less than 0.1 ft in 2 of 6 wells. FPH is relatively immobile at thick less than 1 ft. FH continues to decline in MW-EE from max. thick. of 0.83 ft. in 9/2005. FPH thick in other wells (excepting MW-CC) also exhibit decreasing trends. Benzene horiz. distrib. remain unchanged over duration of project. The benz level in the former house well continues to remain below NM WQCC GW std. Summer 2006 rains did not create a spike in levels at MWs like the heavy 2004-2005 rains. No evidence of plume expansion exists ; thus, natural attenuation stabilizes and removes hydrocarbs as they migrate away from area.

AEC recommends that Q1 2007 monitoring be completed and data reviewed to evaluate changes in GW flow patterns in S-central part of study area.

On 12/22/06, received Q3 2006 GW monitor report conclusions: FPH remains in 4 wells in Wcentral part of study area. FPH thick decrease in 3 of 4 wells. FPH present to N in MW-EE at 0.35 ft. FPH continues to decline from max thick of 0.83 ft. in 9/2005. FPH was not measured anywhwere else within study area. FPH mobility appears to be limited based on historic bail down/recovery tests and its failure to reappear in previously affected wells to S. Benz distrib. unchg. over duration of project. Temporal benz distrib. - see charts.

On 10/24/06, Stephen Weathers 303-605-1718 (swweathers@duke-energy.com) submitted GW monitor rpt. for Q2 2006. The former NMG-148C Study Area was combined with the Eldridge Ranch Study Area beginning w/ the Q1 2006. The areas were combined after estab. that hydrocarb plume orig. from NMG-148C had migrated into the Eldridge Ranch Study Area before it attenuated. The combined sites will be treated as a single entity in all subsequent sample events. Activities are governed under AP-33. DEFS submitted the Stage 1 Abatement Site Investigation Rpt. (ASIR) on 2/11/2004 to the OCD. In that rpt., DEFS is committed to continuing 2 activities independ. of the ASIR review timeframe. The activities include GW monitor. & free phase hydrocarb. (FPH) removal when practicable.

GW Monitor activities were completed on 6/19 and 20, 2006 abiding by the OCD approved SAP. SWLs, FPH tick measurements, and GW sampling were completed (see report). The conclusions were: The interpretations are grouped accord. to GW flow, product thick and GW chemistry. 6/2006: data from newly installed MW-28-31 continues to indicate that GW flow beneath the northern part of the Huston property is southward rather than toward the SE.

The WT continues to decline at a uniform rate across the site from a high in 12/2004. The vertical gradient measured between MWs 1s & 1d has not varied substantially over the duration of the project.

Conclusions are: FPH is present in 5 MWs in the w-central part of the study area. The FPH mobility appears to be limited based upon historic bail down/recovery tests & its failure to reappear in previously affected wells to the S. FPH was also present to the N in MW-EE at 0.35 ft. FPH has now declined from a max. thick of 0.83 ft. in 9/2005. FPH was not measured anywhere else within the study area. The Benz distribution has remained essentially unchg. over the duration of the project. MWs 28, 30 & 31 installed in 3/2006 did not contain detectable concentrations of BTEX constituents when they were sampled a second time. MW-29 has detected BTEX. The northernmost NMG-148C plume and moves south. The pattern indicates that the areal extent of the dissolved phase plume assoc. w/ NMG release is not expanding.

The concern. in MW-e & MW-1 located in the S part of this area continue to decline. Samples from the other 4 wells (MW-M, O, Q & M) produced concentrations that were at or slightly higher than the 3/2006 values. This indicates that the S part of the dissolved phase plume in this area appears to be contracting to the N while the remainder of the plume in this area remains constant. None of the data indicates that the plume is expanding.

Benz time concent. for the wells located immed. adjacent to MW-1 or on the Eldridge property (irrigation wells, house well) are shown in Fig. 9. The concentrations in MW-1 and the irrig. well leveled out after an apprec. 1-yr decline. The concent. in the house well has remained consistent over the past 3 sample events. The pattern does not indicate that the dissolved phase plume is expanding in this area. Wells MW-A, 4 & 5 located N of the Huston-Eldridge boundary, remained relatively consistent.

All of the above relationships indicate that natural attenuation is stabilizing & removing hydrocarbs as they migrate away form the src. areas. There is no evidence of plume expansion.

**Recommendations:** 

AEC recommends that a Q3 monitoring be completed and evaluated. The monitor freq. should then be decreased from qtly. to semi-annual if the data results do not vary appreciably. The potential for FPH removal will be evaluated based upon info. gathered during the Q3 monitor event. Recommendations on FPH will be provided as necessary separate from the monitor report. Michael Stewart PE (303-948-7733).

### J-4-2 Release Site

Project Summary: J-4-2 Release Site Unit C, Section 27 Township 19 South, Range 35 East

Summary date: October 10, 2006

Project history: Pipeline Leak

The release at this site was discovered in August 2005. EPI completed a limited soil cleanup and preliminary groundwater investigations between August 2005 and the first quarter of 2006.

A work plan proposing additional site characterization activities was submitted to the NMOCD. The site activities were completed in September 2006 and a report is currently being generated.

Current Project Status:

Preliminary evaluation of the data indicates that the groundwater plume has been defined beyond the limit of detectable concentrations. Additional activities will be proposed as necessary in the pending investigative report.

On 12/28/06, Stephen Weathers e-mailed a AEC Consultants site investigation rpt. (12/26/07). Water table elevations rose by 0.45 to 1 ft. FPH thickness in MW-2 declined from 0.57 to 0.15 between 2/06 and 9/06. Probably due to high precip. summer 2006. I~ 0.006 toward SE. Head at MW-2 slightly higher than at other wells. K~ 90 ft/day based on pump test. n! 0.15. Estimated GW velocity !3.6 ft/day or 1,310 ft/yr. All develop. and purge water was disposed of at the Linam Ranch facility by EPI. All cuttings generated during the drilling process will be stockpiled

and sampled and then disposed of in an appropriate fashion. Unaffected cuttings will be spread thin.

Final field activity completed was to measure physical properties of saturated mtls. Slug tests were completed on all wells that don't contain FPH to estim. saturated K.

Following recommendations from AEC (Michael Stewart 303-948-7733):

A passive bailer should be installed in MW-2 to attempt to remove mobile FPH. GW monitoring should be completed 3 more times on a qtly. basis to compile a data base based upon 4 seasons of measurements; Qtly repts should be generated based upon the results of the 4th qtr. 2006 and Q1 2007 monitor events; A comprehensive report will be compiled follow. completion of Q2 2007 monitor episode. This report. include recom. of both long-term monitor and , if necessary, implementation of active remediation; Additional charact. activities & active remediation activities will not be completed during this time interval unless data indicates hydrocarb. plume is expanding; the next GW monitor event is scheduled fro the Q4 2006.

On 12/20/06, John Furgerson (jmfergerson@grandecom.net) sent msg. that Trident Environ. a subcontractor of Duke's will be conducting monitor well gauging & GW sampling at 1300 MST Thursday, Dec. 21, 2006. They will measure SWLs in all MWs using an oil/water interface probe; purge non-product MW/RWs. Collect GW samples for BTEX; ship samples using COC protocol; and purge water will be disposed at a NMOCD approved facility.

#### X-line Site (1RP-400)

Project Summary: X line Release Site (1RP-400) Unit B, Section 7 Township 15 South, Range 34 East

Summary date: October 10, 2006

Project history: Pipeline Release

The release at this site was discovered in January 2002. EPI completed soil cleanup and preliminary groundwater investigations the first quarter of 2002. A preliminary groundwater investigation was completed in May 2002.

The following remediation components were installed at the site:

 $\cdot$  A free phase hydrocarbon (FPH) removal system was installed in MW-8 in July 2003. The system continued to function until the mobile FPH was removed.

 $\cdot$  An air sparge (AS) system became operational in June 2003. The system was operated until hydrocarbon concentrations in the wells (except for the FPH collection well) were all measured below the method detection limits.

• A soil vapor extraction (SVE) system was also installed in June 2003. The SVE system operated regularly until August 2006. No FPH was present in the extraction well in September 2006.

Quarterly monitoring is completed at the site. The last monitoring episode was conducted in September 2006.

Current Project Status:

A report detailing the September 2006 activities at this site will be prepared when the analytical data is received and verified.

DEFS will evaluate the feasibility of initiating air sparge in the FPH recovery well to complete source recovery provided no additional FPH is measured in the well.

Received 4th qtr 2006 GW monitor report for pipeline release on January 30, 2007.

Received Q3 2006 GW monitor report from Stephen Weathers 303-605-1718)) for pipeline release on 12/18/06. X-Line pipeline release on the Etcheverry Ranch at 33 deg 02 min 11 sec, 103 deg 32 min 48 sec. MWs 1 through 8 sampled. SWLs reassured. Unfiltered samples were collected for BTEX. MW-8 is not included in hydrograph because casing elev. has not been established (see report for conclusions, etc.).

On 9/8/2006, Stephen Weathers (swweathers@duke-energy.com) sent Ben Stone the Q2 2006 GW monitor report located on the Etcheverry Ranch near Lovington, NM.

The report is missing and OCD needs another copy.

### **RR** Ext, (AP-55)

Project Summary: RR Ext, (Abatement Plan AP-55) Unit C, Section 19 Township 20 South, Range 37 East

Summary date: October 10, 2006

Project history:

DEFS initiated cleanup activities after a December 13, 2005 release. The spill was remediated, and a temporary well was drilled to groundwater during the first quarter of 2006. A sample from the well contained dissolved-phase hydrocarbons.

The NMOCD assigned the site an abatement plan number based upon the groundwater sample. A Stage 1 Abatement Plan Proposal was submitted to the NMOCD on or about May 26, 2006.

Current Project Status:

DEFS is waiting for approval for the Stage 1 Abatement Plan Proposal. DEFS will initiate the required activities following receipt of that approval

### **PCA Junction**

Trisha Elizondo (ARCADIS) (Trisha.elizondo@arcadis-us.com)

On 1/17/07, notification that ARCADIS will be conducting mo. Product recovery and PCA Junction on 1/22-23/07. Routine product recovery is on going at site through hand bailing. MWs at 2 locations will be surveyed to help w/ GW flow & potentiometric surface.

#### Monument Booster Station (Gas Compression Facility)

Q3 2006 GW Monitor activities completed on 9/20/06 & submitted 1/30/07. Next monitor event Q1 2007. Next annual rpt. Prepared following completion of Q1 2007.

No measurable free-product was detected in any MWs. However, in the submittal is shows MWs 1 and 5 have free product at 1.6 and 0.55 inches? No BTEX detected in down-gradient boundary wells MW-3 and 4. No BTEX in up gradient MWs 1D and 2. MW-6 showed anomalously high levels of BEX. Will keep in mind next sample event for continuing trend.

On 11/1/2006, Daniel Dick 303-605-1893 (didick@duke-energy.com) submitted Annual GW Monitor Rpt. 2005-2006. A copy of the summary report for Q3 2005 and Q1 2006 GW sampling effort. Data indicates that the GW conditions remain stable. The next monitor episode was performed 9/2006. The next annual report for the site will be prepared following the completion of the Q1 2007 monitor activities & review & validation of he analytical results. FPH thick measurements on 3/16/06 for period since passive FPH collectors were removed at MW-1 (0.37 in.) and MW-5 (0.39). FPH thick may be declining in MW-1 and is stable at MW-5. None of the BTEX constituents were detected in downgrade boundary wells MW-3 and MW-4. BTEX was also not detected in upgrade wells MW-1D & 2. Hydrocarbs were detected in MW-7, but benz was only constituent above WQCC Stds. No sample has exceeded the WQCC Stds for TEX. Only MW-7 samples have exceeded for benz. Since 2/2000. Benz detection sporadic in all wells except MW-7 since 2/2000. BTX concentrations in MW-7 continue to fluctuate.

Further src. control activities should be postponed given the decreasing product thick in MW-1. The Next semi-annual gw monitor event is scheduled for Q3 2006. Reporting will continue on an annual basis unless unusual conditions warrant notification after the Q3 sampling event.

Attachment: DCP Midstream LP Related Facilities

pENV000GW0 Discharge Plan 0252 Permit	pENV000GW0 Discharge Plan 0311 Permit	0161 Permit	pENV000GW0 0171	DENV000GW0 0173	0178 Permit	pENV000GW0 Discharge 0303 Permit	0156 Permit	pENV000GW0 Discharge Plan 0228 Permit	DENV000GW0 0163	0187 Permit	pENV000GW0 Discharge Plan 0326 Permit	pENV000GW0 Discharge 0331 Permit	DENV000GW0 0242	pENV000GW0 0154	Application No.
Discharge Plan Permit	Discharge Plan Permit	Discharge Plan Permit	Discharge Plan Permit	Discharge Plan Permit	Discharge Plan Permit	Discharge Plan Permit	Permit	Discharge Plan Permit	Discharge Pian Permit	Discharge Plan Permit	Discharge Plan Permit	Discharge Plan Permit	Discharge Pian Permit	Discharge Plan Permit	Application Type
237	296	150	8	162	167	288	145	213	152	176	311		227	143	Order No. (ex., GW-14)
DCP MIDSTREAM L.P.	DCP DUKE MIDSTREAM CEDAR L.P. CANYON CS	DCP MIDSTREAM L.P.	DCP MIDSTREAM L.P.	DCP MIDSTREAM L.P.	DCP MIDSTREAM L.P.	DCP MIDSTREAM L.P.	DCP DUKE ZA MIDSTREAM GAS PLANT L.P. 8 ZIA BOOSTER STATION	DCP DUKE MIDSTREAM STRATA CS L.P.	TREAM	DCP MIDSTREAM L.P.	TREAM	DCP MIDSTREAM L.P.	DCP MIDSTREAM L.P.	DCP MIDSTREAM MON CS L.P.	Applicant
DUKE PECOS DIAMOND GP	DUKE CEDAR CANYON CS	DUKE PURE GOLD "28" CS	DUKE BRIGHTM FED CS	DUKE ANTELOPE RIDGE GP	DUKE P & P Malaga CS	PARDUE CS	DUKE ZIA GAS PLANT & ZIA BOOSTER STATION	DUKE STRATA CS	DUKE WHITE CITY C.S.	DUKE BOOTLEG CS	RAPTOR COTTON DRAW	DUKE PAIGE CS	LG&E HADSON GILLESPIE/F EAGAN CS	DUKE CAL- MON CS	۲
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02/05/1996	03/23/1998		11/29/1993	01/21/1994	05/19/1994	10/06/1997		07/18/1995		10/27/1994	01/15/1999	08/17/1999		03/29/1993	Reva
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03/29/2011	07/15/2008	11/22/2003		03/23/2004	07/25/2004	11/24/2007	07/06/2008	08/30/2000		01/20/2005			12/28/2005	05/14/2008	Ę
G-3-18 S-27 E	P-9-24 S-29 E	D-28-23 S-31 E	C-21-19 S-33 E	0-15-23 S-34 E	G-3-24 S-28 E	J-10-23 S-28 E	A-19-19 S-32 E	A-22-23 S-34 E	-10-24 S-26 E	J-18-22 S-33 E	C-18-25 S-32 E	0-4-21 S-32 E	A-24-17 S-35 E	J-35-23 S-31 E	đ
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Artesia	Artesia	Hobbs	Hobbs		Artesia		Hobbs	Hobbs	{	Hobbs			Hoops	Artesia	District
Santa Fe	Santa Fe	Santa Fe			Fe		Santa Fe			Santa Fe	Santa Fe	Santa Fe	Santa Fe	Santa Fe	District IssuingOff
		Rec DP application + \$100 issued PN 1/23/04 & Draft DP	DP terminated 1/22/04	rec DP App + \$100 issued PN and Draft DP 1/23/04	need sign- offs	need \$400 1ee + sign-off	3 below grade tanks registered	closure requested need picture and TPH analysis	Site is shut down-Liano to submit closure						Notes
1 below grade lark registered															Cleanup Status

PEN	PEN	PEN	P M Z	PEN	PEN	PEN	PE	PEN	PEN	PER
V000GW0	0188	0179	pENV000GW01	0153	0150	pENV000GW0	0139	0138	0189	0079 0079
pENV000GW0 Discharge Plan 0046 Permit	pENV000GW0 Discharge Plan 0188 Permit	pENV0005W0 Discharge Plan 0179 Permit	Postange Plan Parmit	pENV000GW0 Discharge Plan 0153 Permit	pENvoooswo Discharge Plan 0150 Permit	Discharge Plan Permit	pENV000GW0 Discharge Plan 0139 Permit	pENV000GW0 Discharge Plan 0138 Permit	pENV000GW0 Discharge Plan 0189 Permit	pENV00004W0 Discharge Plan 0079 Permit
44	177	188	144		138	137	128	127	178	8
DCP HOBBS MIDSTREAM BOOSTER L.P. CS	DCP MIDSTREAM L.P.	DCP MIDSTREAM	DCP L.P. L.P.	DCP MIDSTREAM L.P.	DCP LP.	DCP MIDSTREAM L.P.	DCP DUKE MIDSTREAM PAIGE CS L.P.	DCP MIDSTREAM L.P.	DCP MIDSTREAM L.P.	MDSTREAM CARLSBAD L.P. GP
HOBBS BOOSTER CS	DUKE MALJAMAR CS	DUKE SOUTH FEAGAN CS	NORTH ( WESTALL) CS	DUKE SAND	A CS CS	DUKE CARRASCO CS	PAIGE CS	DUKE MAGNUM C.S.(BURTO N FLATS GP)	DUKE WON TON CS	GP GP GP
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4-19 S-38 E	1-20-17 S-33 E	N-31-19 S-25 E	E-35-22 S-28 E	P-23-23 S-31 E	145-23 S-28 E	F-14-23 S-28 E	04-21S-32 E	G-9-20 S-29 E	1-10-17 S-37 E	G-10-23 S-28 E
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Santa Fe	Santa Fe	Santa Fe	Santa Fe	Santa Fe	Santa Fe	Santa Fe	Santa Fe	Santa Fe	Santa Fe	
renewal notice sent 7/10/02		Late filing fee and flat fee notice sent 1/11/02. Flat fee received 1/29/02.		1	Site Inactive, recuses workplan 1/10/03, WP approved, Closure Approved 10/15/2003	1 skid sump registered	6 mo. Renewal notice sent 7/10/02: renewal application received	1 below grade tank registered as sump	1 below grade tank registered	Public Notice prepared 1/1502. Request for additional information sent 1/202. FleceAved \$100 tiling flee & renewal on 12/28/06.
			1 below grade tark registered							prepared prepared 1/15/02. Request for additional stroomation stroo filing file oneweat 5100 filing on 1/2/28/06.

9.24**3** (3.44)

2/1/07					 Station	LP.		
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2/1/07			-		 	Ŀ		
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