SITE INFORMATION											
Report Type: Closure Report											
General Site Info	rmation:										
Site:		Parkway 36 St	ate #001								
Company:		SM Energy Co									
Section, Townsh	ip and Range	Section 36, T1	9S, R29E	Unit Letter - F							
Lease Number:											
County: Eddy County											
GPS: 32.61872° N, 104.03101° W											
Surface Owner:		State									
Mineral Owner:											
Directions: From the intersection of Hwy 360 and Co Rd 235, follow Co Rd 235 approximatly 4.75 miles to the NW. Turn south on caliche road and go approximatly 1.1 miles. Site is on the west side of the											
		road.	on callene road and go approx	ximatly 1.1 miles. Site is on the west side of the							
		Toau.									
Release Data:											
Date Released:		8/9/2011									
Type Release:		Produced Water	er								
Source of Contam	ination:	Unknow and ur	nauthorized transport truck								
Fluid Released:		125 bbls									
Fluids Recovered:	•	0 bbls									
Official Commun	ication:										
Name:	Chad McNeely			Aaron Hale							
Company:	SM Energy Compa	any		Tetra Tech							
Address:	3300 N A St # 7-20			1910 N. Big Spring							
P.O. Box											
City:	Midland, Texas			Midland, Texas							
Phone number:	(432) 688-3124			(432) 682-4559							
Fax:											
Email:	cmcneely@sm-e	nergy.com		aaron.hale@tetratech.com							

epth to Groundwater:		Ranking Score		Site Data				
50 ft		20						
0-99 ft		10						
100 ft.		0		0				
/ellHead Protection:		Ranking Score		Site Data				
/ater Source <1,000 ft., Private <200	ft.	20						
/ater Source >1,000 ft., Private >200	ft.	0		0				
urface Body of Water:		Ranking Score		Site Data				
200 ft.		20						
00 ft - 1,000 ft.		10						
1,000 ft.		0		0				
Total Ranking Scor	re:	0						



February 16, 2012

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

Re: **Closure for the SM Energy Company** Parkway Delaware Unit 36 State #001 Unit F, Section 36, Township 19 South, Range 29 East **Eddy County, New Mexico**

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by SM Energy Company (SM Energy) to assess an unauthorized produced water release at the Parkway Delaware Unit 36 State #001 located in Unit F, Section 36, Township 19 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.61872°, W 104.03101°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on August 9, 2011. Approximately 125 barrels of produced water were released into the pasture from an unknown and unauthorized transport No barrels of produced water were recovered. The initial C-141 is enclosed in Appendix A.

Hydrology

The New Mexico Office of the State Engineers (OSE) Website listed two water wells within a half mile of the site. These wells (identified by the OSE as CP 00742 and CP 00703) had reported depths to water at 115 feet below ground surface (bgs).

The New Mexico Oil Conservation Division (OCD) regional groundwater gradient map for Eddy County shows the depth to groundwater in this section at approximately 100 feet.



According to the Geology and Ground-Water Resources of Eddy County, New Mexico (Report 3), the Rustler Formation is present in most of the area east of the Pecos River. The Rustler Formation consists of anhydrite, gypsum, interbedded sandy clays and shales, and irregular beds of dolomite.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the OCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Results

On August 17, 2011, Tetra Tech personnel collected soils samples up to 2.5 feet bgs (Figure 3), utilizing a hand auger at five locations within the spill area (identified as AH-1, AH-2, AH-3, AH-4 and AH-5). The spill area was estimated to cover approximately 7,938 square feet. Soil sampling stopped in each location when auger refusal occurred. Soil samples were submitted for laboratory analysis of TPH by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by SM method 4500. The results of the sampling are summarized in Table 1. The laboratory analytical data indicated that chloride impact was limited to the upper 1.0 foot to 1.5 foot of soil. BTEX and TPH concentrations were not detected at the surface level.

All sample locations had chloride concentrations that decreased with depth. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B.

Remediation and Closure Activities

On October 19, 2011, Tetra Tech personnel supervised the removal of impacted material as discussed in the work plan. The areas of AH-1 through AH-5 were excavated to a depth of 0-1.5' bgs (Figure 4). Approximately 300 cubic yards of impacted soil were transported offsite for disposal at Lea Land, Inc. of Hobbs, New Mexico. Based on the results, the excavation has been backfilled with clean material to surface grade and seeded with a BLM #3 mix.



Based on the results, SM Energy requests closure of the site. The C-141 (Final) is included in Appendix C. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

Respectfully submitted, TETRA TECH, INC.

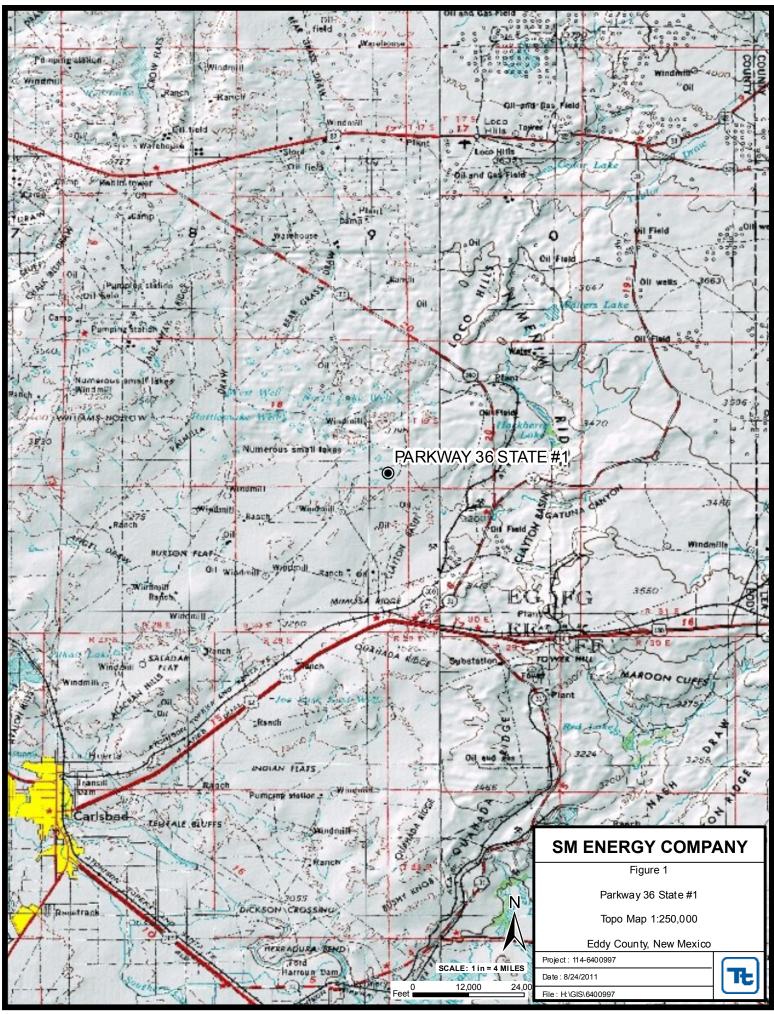
Ike Tavarez

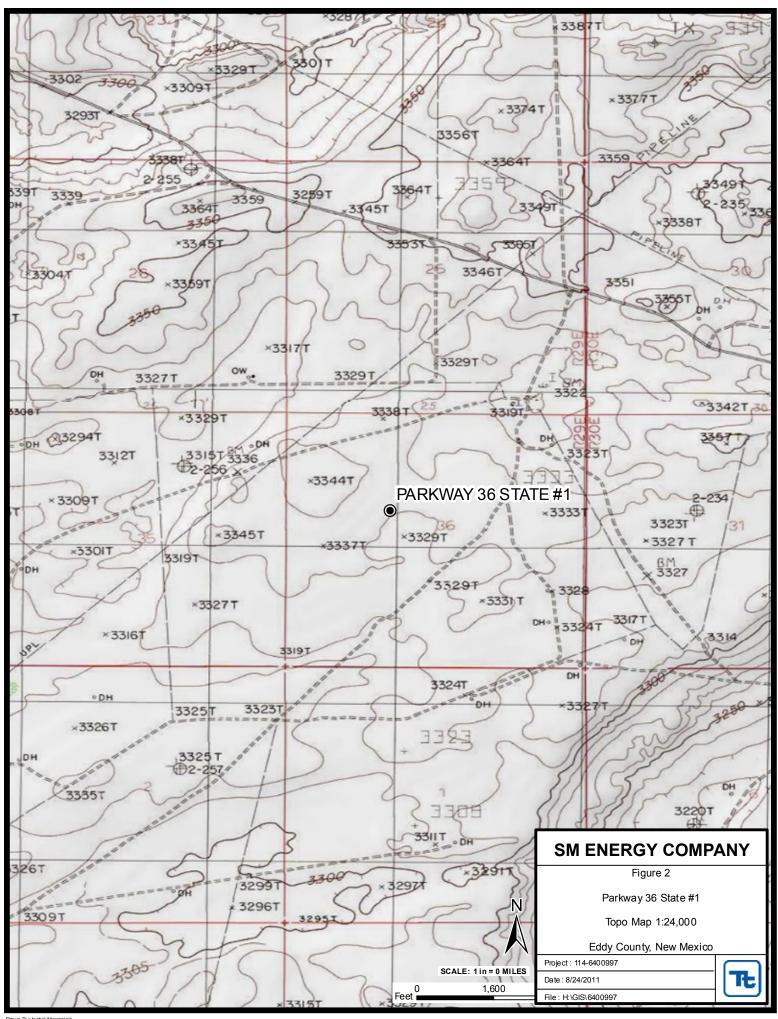
Senior Project Manager

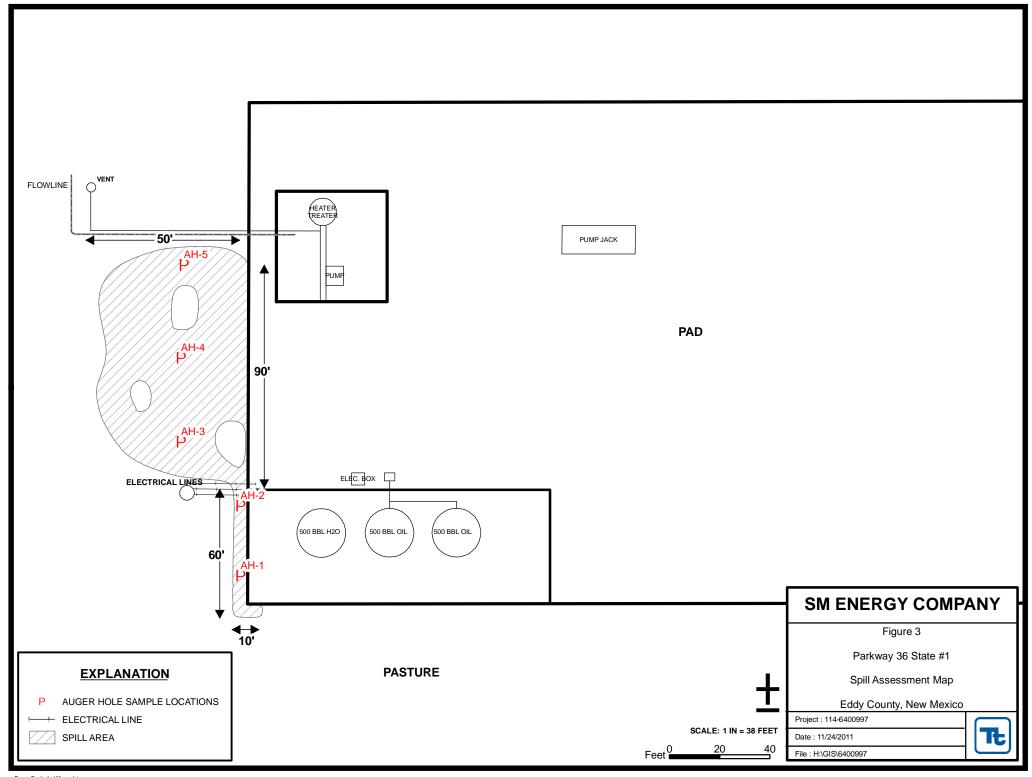
Chad McNeely – SM Energy Company Don Riggs – SM Energy Company CC:

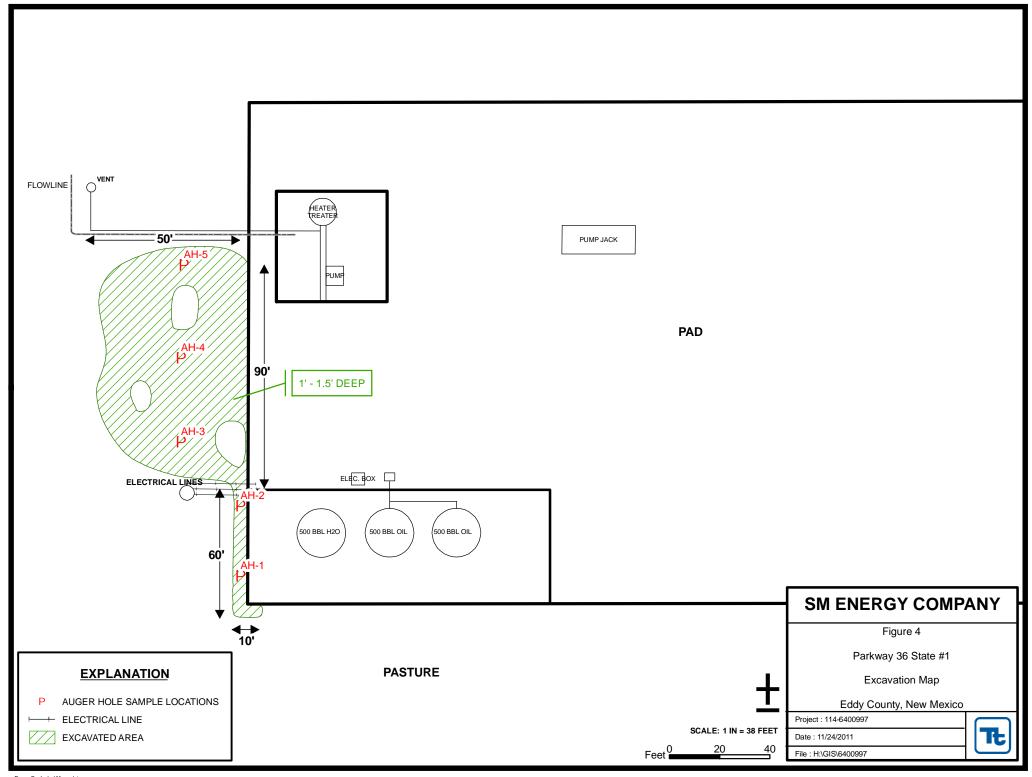
Mark Bondy – SM Energy Company

Figures









Tables

Table 1 SM Energy PDU 36 State #001 Eddy County, New Mexico

Sample	Cample Date	Sample	Soil	Status	T	PH (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	8/17/2011	0-1'		Х	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,870
	"	1-1.5'	Χ		-	-	-	-	-	-	-	-	217
	II	2-2.5'	Х		-	-	-	-	-	-	-	-	<200
AH-2	8/17/2011	0-1'		Х	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,020
	"	1-1.5'	Χ		-	-	-	-	-	-	-	-	<200
	II	1.5-2'	Х		ı	-	1	-			-	-	216
AH-3	8/17/2011	0-1'		Х	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	10,200
	II .	1-1.5'	Х		-	-	-	-	-	-	-	-	<200
	"	2-2.5'	Х		ı	-	ı	-	-	-	-	-	<200
AH-4	8/17/2011	0-1'		Х	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,360
7411	"	1-1.5'		Х	-	-	-	-	-	-	-	-	8,980
	II .	2-2.5'	Х		-	-	-	-	-	-	-	-	<200
AH-5	8/17/2011	0-1'		Х	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	5,850
AU-3	0/11/2011	1-1.5'	X		-	-	-	-	-	-	-	-	<200
	"	2-2.5'	X		-			_	<u> </u>	<u> </u>	_	-	<200
		2-2.5			-	-				-		-	\ <u></u>

(--) Not Analyzed

Excavation Depths

Photos

SM Energy Company Parkway 36 State #001 Eddy County, New Mexico





View South - AH-1 and AH-2



View North West – AH-4 and AH-5

SM Energy Company Parkway 36 State #001 Eddy County, New Mexico





View West – AH-3



View West - Electrical



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 0997 **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Santa Fe, NM 87505												
Release Notification and Corrective Action												
						OPERA'	ror	X Initia	Report		Final Report	
Name of Co	ompany SA	1 ENERGY	COMPA	NY		Contact VI	KIE MARTIN	EZ				
				DLAND, TX 7	9705	Telephone 1	No. (432)688-1	709				
Facility Na						Facility Typ	e BATTERY					
Surface Ow	mer COMN	AISSIONER	OF PUB	LIC LIMINIDSI C)wnerC	OMMISSIO	ONER OF PUBL	LIC LANDSase N	o. 30-015-	2611	2	
						N OF RE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County			
F	36	198	29E						EDDY			
Latitude Longitude Longitude												
Type of Release PRODUCED WATER Volume of Release 125 Volume Recovered 0												
Source of Re			IEK.				lour of Occurrence		lour of Disc	cover	v 8/Q/1 I	
Was Immedia		Given?			·····	If YES, To					7 01 27 11	
Yes No Not Required MIKE BRATCHER												
By Whom? BILL HEARNE Date and Hour 8/9/11 1:58 PM												
Was a Water	Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse.											
Describe Cau	se of Proble	em and Reme	dial Action	n Taken.	wn w		ANSPORT TRU	ICK BACKED UI	TO LOC	ATIO	ON AND	
DUMPED A	A LOAD T	N PASTUR	E NEAR	SM ENERGY'S								
Describe Arc AFFECTEI CLEAN UP ASSESSME	AREA -	PASTURE I TAKEN - N	LAND 36	X126' WHICH	EQUA ED AN	LLED 7931 D WILL TU	SO FT AREA IRN OVER TO	TETRA TECH E	NVIRON	MEN	TAL FOR	
regulations al public health should their o or the enviror	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.											
Signature:	Lau	l W		niz		Approved by	OIL CON District Supervis	SERVATION	DIVISIO	N		
Printed Name	VICKIE	MARTINEZ	2.			Thiroson pa	Signific Suberary	····				
Title: ENG	INEER TE	CH II			1	Approval Da	te:	Expiration I	Date:			
E-mail Addre	ss: VMAR	TINEZ@SM	1-ENERC	Y.COM		Conditions of Approval:						

Phone: (432)688-1709

Datc: 08/10/2011

^{*} Attach Additional Sheets If Necessary

Appendix B

Report Date: August 24, 2011 Work Order: 11081826 Page Number: 1 of 3

Summary Report

Aaron Hale Tetra Tech 1910 N. Big Spring Street

1910 N. Big Spring Street Midland, TX 79705

Work Order: 11081826

Report Date: August 24, 2011

Project Location: Eddy Co., NM

Project Name: SM Energy/PDU 36 State #001

Project Number: 114-6400997

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
274908	AH-1 0-1'	soil	2011-08-17	00:00	2011-08-18
274909	AH-1 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274910	AH-1 2-2.5'	soil	2011-08-17	00:00	2011-08-18
274911	AH-2 0-1'	soil	2011-08-17	00:00	2011-08-18
274912	AH-2 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274913	AH-2 1.5-2'	soil	2011-08-17	00:00	2011-08-18
274914	AH-3 0-1'	soil	2011-08-17	00:00	2011-08-18
274915	AH-3 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274916	AH-3 2-2.5'	soil	2011-08-17	00:00	2011-08-18
274917	AH-4 0-1'	soil	2011-08-17	00:00	2011-08-18
274918	AH-4 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274919	AH-4 2-2.5'	soil	2011-08-17	00:00	2011-08-18
274920	AH-5 0-1'	soil	2011-08-17	00:00	2011-08-18
274921	AH-5 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274922	AH-5 2-2.5'	soil	2011-08-17	00:00	2011-08-18

]	BTEX	TPH DRO - NEW	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
274908 - AH-1 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00
274911 - AH-2 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00
274914 - AH-3 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00
274917 - AH-4 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00
274920 - AH-5 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00

Sample: 274908 - AH-1 0-1'

 $continued \dots$

Report Date: Augu	st 24, 2011	Work Order: 11081826	Page 1	Number: 2 of 3
sample 274908 cont	$tinued \dots$			
Param	Flag	Result	Units	RL
Param	Flag	Result	Units	RL
Chloride		4870	m mg/Kg	4
Sample: 274909 -	- AH-1 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		217	m mg/Kg	4
Sample: 274910 -	- AH-1 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		<200	m mg/Kg	4
Sample: 274911 -	- AH-2 0-1'			
Param	Flag	Result	Units	RL
Chloride		4020	mg/Kg	4
Sample: 274912 -	- AH-2 1-1.5'			
Param	Flag	Result	Units	RL
Chloride	3	<200	${ m mg/Kg}$	4
Sample: 274913 -	- AH-2 1.5-2'			
Param	Flag	Result	Units	RL
Chloride	0	216	m mg/Kg	4
Sample: 274914 -	- AH-3 0-1'			
Param	Flag	Result	Units	RL
Chloride		10200	mg/Kg	4

TraceAnalysis, Inc. \bullet 6701 Aberdeen Ave., Suite 9 \bullet Lubbock, TX 79424-1515 \bullet (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Sample: 274915 - AH-3 1-1.5

Report Date: Augu	st 24, 2011	Work Order: 11081826	Page Number: 3 of 3					
Param	Flag	Result	Units	RL				
Chloride	-	<200	mg/Kg	4				
Sample: 274916 -	- AH-3 2-2.5'							
Param	Flag	Result	Units	RL				
Chloride		<200	m mg/Kg	4				
Sample: 274917 -	- AH-4 0-1'							
Param	Flag	Result	Units	RL				
Chloride	-	4360	m mg/Kg	4				
Sample: 274918 -	- AH-4 1-1.5'							
Param	Flag	Result	Units	RL				
Chloride		8980	m mg/Kg	4				
Sample: 274919 -	- AH-4 2-2.5'							
Param	Flag	Result	Units	RL				
Chloride		<200	m mg/Kg	4				
Sample: 274920 -	- AH-5 0-1'							
Param	Flag	Result	Units	RL				
Chloride	-	5850	m mg/Kg	4				
Sample: 274921 -	- AH-5 1-1.5'							
Param	Flag	Result	Units	RL				
Chloride		<200	m mg/Kg	4				
Sample: 274922 -	- AH-5 2-2.5'							
Param	Flag	Result	Units	RL				
Chloride		<200	mg/Kg	4				



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703

888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301

FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

817 • 201 • 5260

E-Mail: lab@traceanalysis.com

Certifications

NELAP DoD LELAP WBE HUB **NCTRCA** DBEKansas Oklahoma ISO 17025

Analytical and Quality Control Report

Aaron Hale Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: August 24, 2011

Work Order: 11081826

Project Location: Eddy Co., NM

Project Name: SM Energy/PDU 36 State #001

Project Number: 114-6400997

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
274908	AH-1 0-1'	soil	2011-08-17	00:00	2011-08-18
274909	AH-1 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274910	AH-1 2-2.5'	soil	2011-08-17	00:00	2011-08-18
274911	AH-2 0-1'	soil	2011-08-17	00:00	2011-08-18
274912	AH-2 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274913	AH-2 1.5-2'	soil	2011-08-17	00:00	2011-08-18
274914	AH-3 0-1'	soil	2011-08-17	00:00	2011-08-18
274915	AH-3 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274916	AH-3 2-2.5'	soil	2011-08-17	00:00	2011-08-18
274917	AH-4 0-1'	soil	2011-08-17	00:00	2011-08-18
274918	AH-4 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274919	AH-4 2-2.5'	soil	2011-08-17	00:00	2011-08-18
274920	AH-5 0-1'	soil	2011-08-17	00:00	2011-08-18
274921	AH-5 1-1.5'	soil	2011-08-17	00:00	2011-08-18
274922	AH-5 2-2.5'	soil	2011-08-17	00:00	2011-08-18

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

This report consists of a total of 27 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Report Contents

Case Narrative
Analytical Report
Sample 274908 (AH-1 0-1')
Sample 274909 (AH-1 1-1.5')
Sample 274910 (AH-1 2-2.5')
Sample 274911 (AH-2 0-1')
Sample 274912 (AH-2 1-1.5')
Sample 274913 (AH-2 1.5-2')
Sample 274914 (AH-3 0-1')
Sample 274915 (AH-3 1-1.5')
Sample 274916 (AH-3 2-2.5')
Sample 274917 (AH-4 0-1')
Sample 274918 (AH-4 1-1.5')
Sample 274919 (AH-4 2-2.5')
Sample 274920 (AH-5 0-1')
Sample 274921 (AH-5 1-1.5')
Sample 274922 (AH-5 2-2.5')
Method Blanks
QC Batch 84101 - Method Blank (1)
QC Batch 84102 - Method Blank (1)
QC Batch 84108 - Method Blank (1)
QC Batch 84136 - Method Blank (1)
QC Batch 84205 - Method Blank (1)
Laboratory Control Spikes
QC Batch 84101 - LCS (1)
QC Batch 84102 - LCS (1)
QC Batch 84108 - LCS (1)
QC Batch 84136 - LCS (1)
QC Batch 84205 - LCS (1)
QC Batch 84101 - MS (1)
QC Batch 84102 - MS (1)
QC Batch 84108 - MS (1)
QC Batch 84136 - MS (1)
QC Batch 84205 - MS (1)
Calibration Standards
~
QC Batch 84101 - CCV (2)
QC Batch 84102 - CCV (1)
QC Batch 84102 - CCV (2)
QC Batch 84108 - CCV (2)
QC Batch 84108 - CCV (3)

QC Batch 84136	- CCV (1)	١	 	 	 								 				
QC Batch 84205	- ICV (1)		 	 	 	 							 				
QC Batch 84205	- CCV (1)		 	 	 								 				
Appendix																	
Laboratory Certi	fications		 	 	 	 							 				
Standard Flags			 	 	 								 				
Attachments .			 	 	 	 							 				

Case Narrative

Samples for project SM Energy/PDU 36 State #001 were received by TraceAnalysis, Inc. on 2011-08-18 and assigned to work order 11081826. Samples for work order 11081826 were received intact at a temperature of 3.4 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	71411	2011-08-19 at 10:58	84101	2011-08-19 at 10:58
Chloride (Titration)	$\mathrm{SM}\ 4500\text{-}\mathrm{Cl}\ \mathrm{B}$	71416	2011-08-19 at 15:42	84136	2011-08-22 at $16:26$
Chloride (Titration)	SM 4500-Cl B	71416	2011-08-19 at 15:42	84205	2011-08-24 at 12:20
TPH DRO - NEW	S 8015 D	71417	2011-08-19 at 09:19	84108	2011-08-19 at 09:19
TPH GRO	S 8015 D	71411	2011-08-19 at 10:58	84102	2011-08-19 at $10:58$

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11081826 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: August 24, 2011 Work Order: 11081826 Page Number: 6 of 27 114-6400997 SM Energy/PDU 36 State #001 Eddy Co., NM

Analytical Report

Sample: 274908 - AH-1 0-1'

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 84101 Date Analyzed: 2011-08-19 Analyzed By: ME Prep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	1	< 0.0200	m mg/Kg	1	0.0200
Toluene	U	1	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	< 0.0200	mg/Kg	1	0.0200
Xylene	U	1	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.79	mg/Kg	1	2.00	140	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.53	mg/Kg	1	2.00	126	70.6 - 179

Sample: 274908 - AH-1 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 84136 Date Analyzed: 2011-08-22 Analyzed By: AR Prep Batch: 71416 Sample Preparation: 2011-08-19 Prepared By: AR

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			4870	mg/Kg	100	4.00

Sample: 274908 - AH-1 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A QC Batch: 84108 Date Analyzed: 2011-08-19 Analyzed By: kg Prep Batch: 71417 Sample Preparation: 2011-08-19 Prepared By: kg

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	U	1	< 50.0	mg/Kg	1	50.0

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						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			86.1	mg/Kg	1	100	86	67.5 - 147.1

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Sample: 274908 - AH-1 0-1'

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 84102 Date Analyzed: 2011-08-19 Analyzed By: MEPrep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.47	mg/Kg	1	2.00	124	30 - 134.6
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	22.4 - 149

Sample: 274909 - AH-1 1-1.5'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 84136 Date Analyzed: 2011-08-22 Analyzed By: AR Prep Batch: 71416 Prepared By: Sample Preparation: 2011-08-19 AR

Sample: 274910 - AH-1 2-2.5'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84136 Date Analyzed: 2011-08-22 Analyzed By: AR Prep Batch: 71416 Sample Preparation: Prepared By: AR 2011-08-19

 $continued \dots$

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sample 274910 continued ...

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
			DI			
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		< 200	mg/Kg	50	4.00

Sample: 274911 - AH-2 0-1'

Laboratory: Midland

Analysis: BTEX QC Batch: 84101 Prep Batch: 71411 Analytical Method: S 8021B
Date Analyzed: 2011-08-19
Sample Preparation: 2011-08-19

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

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	1	< 0.0200	m mg/Kg	1	0.0200
Toluene	U	1	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	< 0.0200	mg/Kg	1	0.0200
Xylene	U	1	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.74	mg/Kg	1	2.00	137	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.50	mg/Kg	1	2.00	125	70.6 - 179

Sample: 274911 - AH-2 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84136 Date Analyzed: 2011-08-22 Analyzed By: ARPrep Batch: 71416 Sample Preparation: 2011-08-19 Prepared By: AR

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			4020	m mg/Kg	100	4.00

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Sample: 274911 - AH-2 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW S 8015 DPrep Method: Analytical Method: N/AQC Batch: 84108 Date Analyzed: 2011-08-19 Analyzed By: kg Prep Batch: 71417 Sample Preparation: Prepared By: 2011-08-19 kg

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			91.4	mg/Kg	1	100	91	67.5 - 147.1

Sample: 274911 - AH-2 0-1'

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 84102 Date Analyzed: Analyzed By: ME2011-08-19 Prep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.40	mg/Kg	1	2.00	120	30 - 134.6
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	22.4 - 149

Sample: 274912 - AH-2 1-1.5'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84136 Date Analyzed: 2011-08-22 Analyzed By: AR Prep Batch: 71416 Sample Preparation: Prepared By: 2011-08-19 AR

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Sample: 274913 - AH-2 1.5-2'

Laboratory: Midland

Chloride (Titration) Analysis: Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Sample Preparation: Prep Batch: 71416 2011-08-19 Prepared By: AR

Sample: 274914 - AH-3 0-1'

Laboratory: Midland

BTEX S 8021BPrep Method: S 5035 Analysis: Analytical Method: QC Batch: 84101 Date Analyzed: 2011-08-19 Analyzed By: MEPrep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	1	< 0.0200	$\mathrm{mg/Kg}$	1	0.0200
Toluene	U	1	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	< 0.0200	mg/Kg	1	0.0200
Xylene	U	1	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.74	mg/Kg	1	2.00	137	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.51	mg/Kg	1	2.00	126	70.6 - 179

Sample: 274914 - AH-3 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Prep Batch: 71416 Sample Preparation: 2011-08-19 Prepared By: AR

			$\kappa_{ m L}$			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			10200	mg/Kg	100	4.00

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Sample: 274914 - AH-3 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW S 8015 D Analytical Method: Prep Method: N/AQC Batch: 84108 Date Analyzed: 2011-08-19 Analyzed By: kg Prep Batch: 71417 Sample Preparation: Prepared By: 2011-08-19 kg

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			87.2	mg/Kg	1	100	87	67.5 - 147.1

Sample: 274914 - AH-3 0-1'

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 84102 Date Analyzed: Analyzed By: ME2011-08-19 Prep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.42	mg/Kg	1	2.00	121	30 - 134.6
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	22.4 - 149

Sample: 274915 - AH-3 1-1.5'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Prep Batch: 71416 Sample Preparation: Prepared By: 2011-08-19 AR

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Sample: 274916 - AH-3 2-2.5'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Prep Batch: 71416 Sample Preparation: 2011-08-19 Prepared By: AR

Sample: 274917 - AH-4 0-1'

Laboratory: Midland

S 8021B S 5035 Analysis: **BTEX** Analytical Method: Prep Method: QC Batch: 84101 2011-08-19 Date Analyzed: Analyzed By: MEPrep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

RLParameter Flag Cert Result Units Dilution RLBenzene < 0.0200 mg/Kg 0.0200 U 1 Toluene 0.0200 < 0.0200 mg/Kg1 U Ethylbenzene mg/Kg0.0200 < 0.0200 1 U Xylene < 0.0200 mg/Kg1 0.0200U

Spike Percent Recovery Surrogate Flag Cert Result Units Dilution Amount Recovery Limits 2.00 Trifluorotoluene (TFT) 2.39 mg/Kg 120 82.8 - 143.1 2.00 70.6 - 1792.21 mg/Kg1 110 4-Bromofluorobenzene (4-BFB)

Sample: 274917 - AH-4 0-1'

Laboratory: Midland

Chloride (Titration) Analytical Method: SM 4500-Cl B Analysis: Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: ARPrep Batch: 71416 Sample Preparation: 2011-08-19 Prepared By: AR

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Sample: 274917 - AH-4 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW S 8015 DAnalytical Method: Prep Method: N/AQC Batch: 84108 Date Analyzed: 2011-08-19 Analyzed By: kg Prep Batch: 71417 Sample Preparation: Prepared By: 2011-08-19 kg

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			87.1	mg/Kg	1	100	87	67.5 - 147.1

Sample: 274917 - AH-4 0-1'

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 84102 Date Analyzed: Analyzed By: ME2011-08-19 Prep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

						$_{ m Spike}$	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.09	mg/Kg	1	2.00	104	30 - 134.6
4-Bromofluorobenzene (4-BFB)	J		1.86	mg/Kg	1	2.00	93	22.4 - 149

Sample: 274918 - AH-4 1-1.5'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Prep Batch: 71416 Sample Preparation: Prepared By: 2011-08-19 AR

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Sample: 274919 - AH-4 2-2.5'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Prep Batch: 71416 Sample Preparation: 2011-08-19 Prepared By: AR

Sample: 274920 - AH-5 0-1'

Laboratory: Midland

S 8021B S 5035 Analysis: **BTEX** Analytical Method: Prep Method: QC Batch: 84101 2011-08-19 Date Analyzed: Analyzed By: MEPrep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

RLParameter Flag Cert Result Units Dilution RLBenzene < 0.0200 mg/Kg 0.0200 U 1 Toluene 0.0200 < 0.0200 mg/Kg1 U Ethylbenzene mg/Kg0.0200 < 0.0200 1 U Xylene < 0.0200 mg/Kg1 0.0200U

Spike Percent Recovery Surrogate Flag Cert Result Units Dilution Amount Recovery Limits 2.00 Trifluorotoluene (TFT) 2.71 mg/Kg 136 82.8 - 143.1 2.00 70.6 - 1792.48 mg/Kg1 124 4-Bromofluorobenzene (4-BFB)

Sample: 274920 - AH-5 0-1'

Laboratory: Midland

Chloride (Titration) Analytical Method: SM 4500-Cl B Analysis: Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: ARPrep Batch: 71416 Sample Preparation: 2011-08-19 Prepared By: AR

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Sample: 274920 - AH-5 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW S 8015 D Analytical Method: Prep Method: N/A QC Batch: 84108 Date Analyzed: 2011-08-19 Analyzed By: kg Prep Batch: 71417 Sample Preparation: Prepared By: 2011-08-19 kg

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			89.5	mg/Kg	1	100	90	67.5 - 147.1

Sample: 274920 - AH-5 0-1'

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 84102 Date Analyzed: Analyzed By: ME2011-08-19 Prep Batch: 71411 Sample Preparation: 2011-08-19 Prepared By: ME

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.38	mg/Kg	1	2.00	119	30 - 134.6
4-Bromofluorobenzene (4-BFB)			2.09	mg/Kg	1	2.00	104	22.4 - 149

Sample: 274921 - AH-5 1-1.5'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Prep Batch: 71416 Sample Preparation: Prepared By: 2011-08-19 AR

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Sample: 274922 - AH-5 2-2.5'

Laboratory: Midland

Analysis: Analytical Method: Chloride (Titration) SM 4500-Cl B Prep Method: N/A QC Batch: 84205 Date Analyzed: Analyzed By: 2011-08-24 ARPrep Batch: 71416 Sample Preparation: 2011-08-19 Prepared By: AR

RL

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Method Blanks

Method Blank (1) QC Batch: 84101

QC Batch: 84101 Date Analyzed: 2011-08-19 Analyzed By: ME Prep Batch: 71411 QC Preparation: 2011-08-19 Prepared By: ME

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Benzene		1	< 0.0118	mg/Kg	0.02
Toluene		1	< 0.00600	mg/Kg	0.02
Ethylbenzene		1	< 0.00850	mg/Kg	0.02
Xylene		1	< 0.00613	$\mathrm{mg/Kg}$	0.02

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.10	mg/Kg	1	2.00	105	65.9 - 111.8
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	48.4 - 123.1

Method Blank (1) QC Batch: 84102

QC Batch: 84102 Date Analyzed: 2011-08-19 Analyzed By: ME Prep Batch: 71411 QC Preparation: 2011-08-19 Prepared By: ME

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.88	mg/Kg	1	2.00	94	67.6 - 150
4-Bromofluorobenzene (4-BFB)			1.77	mg/Kg	1	2.00	88	52.4 - 130

Method Blank (1) QC Batch: 84108

QC Batch: 84108 Date Analyzed: 2011-08-19 Analyzed By: kg
Prep Batch: 71417 QC Preparation: 2011-08-19 Prepared By: kg

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					<u>.</u>	MDL		
Parameter		F	lag	Cert	R	esult	Units	RL
DRO				1	<	<14.5	m mg/Kg	50
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			83.7	mg/Kg	1	100	84	52.7 - 133.8

Method Blank (1) QC Batch: 84136

QC Batch: 84136 Date Analyzed: 2011-08-22 Analyzed By: AR Prep Batch: 71416 QC Preparation: 2011-08-19 Prepared By: AR

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Chloride			< 3.85	m mg/Kg	4

Method Blank (1) QC Batch: 84205

QC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR
Prep Batch: 71416 QC Preparation: 2011-08-19 Prepared By: AR

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		1	1.99	mg/Kg	1	2.00	< 0.0118	100	77.4 - 121.7
Toluene		1	2.16	mg/Kg	1	2.00	< 0.00600	108	88.6 - 121.6
Ethylbenzene		1	2.23	mg/Kg	1	2.00	< 0.00850	112	74.3 - 117.9
Xylene		1	6.71	mg/Kg	1	6.00	< 0.00613	112	73.4 - 118.8

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		1	2.06	mg/Kg	1	2.00	< 0.0118	103	77.4 - 121.7	3	20
Toluene		1	2.23	mg/Kg	1	2.00	< 0.00600	112	88.6 - 121.6	3	20
Ethylbenzene		1	2.28	mg/Kg	1	2.00	< 0.00850	114	74.3 - 117.9	2	20
Xylene		1	6.90	mg/Kg	1	6.00	< 0.00613	115	73.4 - 118.8	3	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)	2.22	2.17	mg/Kg	1	2.00	111	108	65.5 - 116.7
4-Bromofluorobenzene (4-BFB)	2.38	2.36	mg/Kg	1	2.00	119	118	56.2 - 132.1

Laboratory Control Spike (LCS-1)

QC Batch: 84102 Date Analyzed: 2011-08-19 Analyzed By: ME Prep Batch: 71411 QC Preparation: 2011-08-19 Prepared By: ME

			LCS			Spike	Matrix		Rec.
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		1	17.4	mg/Kg	1	20.0	< 0.753	87	60.9 - 95.4

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

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control	snikes	continued			
COTOUTOU	Opoloco	COTTOUTTUCCO	•	•	•

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		1	17.8	mg/Kg	1	20.0	< 0.753	89	60.9 - 95.4	2	20

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

	LCS	LCSD			$_{ m Spike}$	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.05	2.07	mg/Kg	1	2.00	102	104	61.9 - 142
4-Bromofluorobenzene (4-BFB)	2.09	1.84	mg/Kg	1	2.00	104	92	68.2 - 132

Laboratory Control Spike (LCS-1)

Analyzed By: kg QC Batch: 84108 Date Analyzed: 2011-08-19 Prep Batch: 71417 QC Preparation: 2011-08-19 Prepared By: kg

			LCS			$_{ m Spike}$	Matrix		Rec.
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1	228	mg/Kg	1	250	<14.5	91	64.5 - 146.9

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1	238	mg/Kg	1	250	<14.5	95	64.5 - 146.9	4	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-Tricosane	89.1	91.4	mg/Kg	1	100	89	91	65.3 - 135.8

Laboratory Control Spike (LCS-1)

QC Batch: 84136Date Analyzed: 2011-08-22 Analyzed By: AR Prep Batch: 71416 QC Preparation: 2011-08-19 Prepared By: AR

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			92.2	mg/Kg	1	100	< 3.85	92	85 - 115

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			103	mg/Kg	1	100	< 3.85	103	85 - 115	11	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: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Prep Batch: 71416 QC Preparation: 2011-08-19 Prepared By: AR

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			95.9	mg/Kg	1	100	< 3.85	96	85 - 115

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			108	mg/Kg	1	100	< 3.85	108	85 - 115	12	20

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

Matrix Spike (MS-1) Spiked Sample: 274943

QC Batch: 84101 Date Analyzed: 2011-08-19 Analyzed By: ME Prep Batch: 71411 QC Preparation: 2011-08-19 Prepared By: ME

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		1	1.88	mg/Kg	1	2.00	< 0.0118	94	69.4 - 123.6
Toluene		1	2.14	mg/Kg	1	2.00	< 0.00600	107	75.4 - 134.3
Ethylbenzene		1	2.34	mg/Kg	1	2.00	< 0.00850	117	58.8 - 133.7
Xylene		1	7.15	mg/Kg	1	6.00	< 0.00613	119	57 - 134.2

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

			MSD			Spike	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		1	1.83	mg/Kg	1	2.00	< 0.0118	92	69.4 - 123.6	3	20
Toluene		1	2.08	mg/Kg	1	2.00	< 0.00600	104	75.4 - 134.3	3	20
Ethylbenzene		1	2.28	mg/Kg	1	2.00	< 0.00850	114	58.8 - 133.7	3	20
Xylene		1	6.92	mg/Kg	1	6.00	< 0.00613	115	57 - 134.2	3	20

Report Date: August 24, 2011

Work Order: 11081826

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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)	2.68	2.44	mg/Kg	1	2	134	122	79.4 - 141.1
4-Bromofluorobenzene (4-BFB)	2.55	2.29	mg/Kg	1	2	128	114	71 - 167

Matrix Spike (MS-1) Spiked Sample: 274920

QC Batch: Date Analyzed: 84102 2011-08-19 Prep Batch: 71411 QC Preparation: 2011-08-19

Analyzed By: ME Prepared By: ME

MSSpike Rec. Matrix Param Result Units Dil. Amount Result Limit Rec. GRO 17.4 mg/Kg 20.0 < 0.753 87 61.8 - 114

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		1	16.6	mg/Kg	1	20.0	< 0.753	83	61.8 - 114	5	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)	2.39	2.27	mg/Kg	1	2	120	114	29.4 - 161.7
4-Bromofluorobenzene (4-BFB)	2.25	2.13	mg/Kg	1	2	112	106	37.3 - 162

Matrix Spike (MS-1) Spiked Sample: 274920

QC Batch: 84108 Date Analyzed: 2011-08-19 Analyzed By: kg Prep Batch: 71417 QC Preparation: 2011-08-19 Prepared By:

			MS			Spike	Matrix		Rec.
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1	217	mg/Kg	1	250	<14.5	87	38.8 - 153.3

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1	218	mg/Kg	1	250	<14.5	87	38.8 - 153.3	0	20

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

Report Date: August 24, 2011 Work Order: 11081826 114-6400997 SM Energy/PDU 36 State #001

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	83.9	85.2	mg/Kg	1	100	84	85	54.6 - 149.8

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Eddy Co., NM

Matrix Spike (MS-1) Spiked Sample: 274912

QC Batch: 84136 Date Analyzed: 2011-08-22 Analyzed By: AR Prep Batch: 71416 QC Preparation: 2011-08-19 Prepared By: AR

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			10100	mg/Kg	100	10000	< 385	101	79.4 - 120.6

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			10700	mg/Kg	100	10000	<385	107	79.4 - 120.6	6	20

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

Matrix Spike (MS-1) Spiked Sample: 274922

QC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR Prep Batch: 71416 QC Preparation: 2011-08-19 Prepared By: AR

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			8670	mg/Kg	100	10000	<385	87	79.4 - 120.6

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			9470	mg/Kg	100	10000	<385	95	79.4 - 120.6	9	20

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

Report Date: August 24, 2011 Work Order: 11081826 Page Number: 24 of 27 114-6400997 SM Energy/PDU 36 State #001 Eddy Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch: 84101 Date Analyzed: 2011-08-19 Analyzed By: ME

				$\begin{array}{c} { m CCVs} \\ { m True} \end{array}$	$\begin{array}{c} {\rm CCVs} \\ {\rm Found} \end{array}$	$\begin{array}{c} { m CCVs} \\ { m Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		1	mg/Kg	0.100	0.0954	95	80 - 120	2011-08-19
Toluene		1	mg/Kg	0.100	0.102	102	80 - 120	2011-08-19
Ethylbenzene		1	mg/Kg	0.100	0.106	106	80 - 120	2011-08-19
Xylene		1	mg/Kg	0.300	0.320	107	80 - 120	2011-08-19

Standard (CCV-2)

QC Batch: 84101 Date Analyzed: 2011-08-19 Analyzed By: ME

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		1	mg/Kg	0.100	0.0984	98	80 - 120	2011-08-19
Toluene		1	mg/Kg	0.100	0.108	108	80 - 120	2011-08-19
Ethylbenzene		1	mg/Kg	0.100	0.107	107	80 - 120	2011-08-19
Xylene		1	mg/Kg	0.300	0.325	108	80 - 120	2011-08-19

Standard (CCV-1)

QC Batch: 84102 Date Analyzed: 2011-08-19 Analyzed By: ME

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	1.04	104	80 - 120	2011-08-19

Standard (CCV-2)

QC Batch: 84102 Date Analyzed: 2011-08-19 Analyzed By: ME

Report Date: August 24, 2011 114-6400997

Work Order: 11081826 SM Energy/PDU 36 State #001

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	1.02	102	80 - 120	2011-08-19

Standard (CCV-2)

QC Batch: 84108

Date Analyzed: 2011-08-19

Analyzed By: kg

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Eddy Co., NM

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	254	102	80 - 120	2011-08-19

Standard (CCV-3)

 $QC\ Batch:\ 84108$

Date Analyzed: 2011-08-19

Analyzed By: kg

				CCVs True	CCVs Found	$\begin{array}{c} { m CCVs} \\ { m Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	237	95	80 - 120	2011-08-19

Standard (ICV-1)

QC Batch: 84136

Date Analyzed: 2011-08-22

Analyzed By: AR

				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2011-08-22

Standard (CCV-1)

QC Batch: 84136 Date Analyzed: 2011-08-22 Analyzed By: AR

Report Date: August 24, 2011 114-6400997 Work Order: 11081826 SM Energy/PDU 36 State #001

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Eddy Co., NM

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	98.9	99	85 - 115	2011-08-22

Standard (ICV-1)

QC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR

				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	102	102	85 - 115	2011-08-24

Standard (CCV-1)

QC Batch: 84205 Date Analyzed: 2011-08-24 Analyzed By: AR

				CCVs	CCVs $CCVs$ $CCVs$		Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	97.8	98	85 - 115	2011-08-24

Report Date: August 24, 2011 Work Order: 11081826 Page Number: 27 of 27 114-6400997 SM Energy/PDU 36 State #001 Eddy Co., NM

Appendix

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
 - U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

文(2)0 #: 11081826

Custody Record ANALYSIS REQUEST (Circle or Specify Method No.)	q At bq Hg Se	PRESERVATIVE S BA C S BA C S BA C	BTEX 8021B TPH 8015 MOD T PAH 8270 TCLP Metals Ag As B TCLP Volatiles TCLP Semi Volatiles GC.MS Vol. 8240/8260 GC.MS Semi. Vol. 8270 PcB's 8080/608 PcB's 808/608 Gamma Spec. Chloridg Chloridg Pest. 808/608					J. J		XX			Date: Date: By Time: Type Time: Type Time: Time: Type Time: Type Time: Type Time: Type Type Type Type Type Type Type Type	SAMPLE SHIPPED BY; (Circle) FEDEX BUS	Date: HAND DELIVERED UPS OTHER: TETRA TECH CONTACT PERSON: Results by:	Aston 1-144		Line sample / it the 1stex exerces 50mg/ Ks or Brigher	
Applyeic Dogmost of Chain of Chetody		TETRATECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	CLIENT NAME: SITE MANAGER: AREON HAR	PROJECT NAME: / PDU	LAB I.D. DATE TIME $\begin{bmatrix} \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & \overrightarrow{E} \\ \overrightarrow{E} & $	100 1-44 X S C18 806/HZ)-HV /	910	1-0 2.46	7	,'-9 E-HU hb	916 / 1 44-3 25.5'	AH-4,, 0-1	Time: 1445	RELINQUISHED BY: (Signature) Time:	RELINQUISHED BY: (Signature) Time:	RECEIVING LABORATORY: Truct ADDRESS: How cante. Truct Tipe.	PHONE	1 14 461 (PH DELLT d'S 1,000 m) / 14 run

Appendix C

<u>District I</u> 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

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

	OPERATOR												Final	l Report		
Name of Co	mpany S	M Energy (Company	,		(Contact Vic	ckie Martinez								
Address 33	00 N "A"	St Bldg. 7-2	00 Midla	nd, I	Tx 79705	r	Telephone No. (432) 688-1709									
Facility Nan	ne Parkwa	ay 36 State #	:001]	Facility Type Tank Battery									
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					LOCA	ATION	N OF REI	LEASE								
Unit Letter	Section	Township	Range	Feet	t from the		South Line	Feet from the	East/V	Vest Line	County					
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	Latitude N 32.61872° Longitude W 104.03101°															
NATURE OF RELEASE																
Type of Relea	se Produc	ed Water	-		MAI	OKE		Release 125 bbls	2	Volume R	Recovered 0	hhls				
Source of Rel							1	lour of Occurrence			Hour of Dis		,			
							08/09/2011			08/09/201						
Was Immedia	ate Notice C						If YES, To									
			Yes 🗌	No	☐ Not Re	equired	Mike Brat	cher								
By Whom? B								lour 08/09/2011								
Was a Watero	course Reac		Vas. 🖂	Ma				olume Impacting to	he Wate	rcourse.						
		Ш	Yes 🖂	NO			N/A									
If a Watercou	If a Watercourse was Impacted, Describe Fully.*															
N/A																
IV/A																
Describe Cau	se of Proble	em and Remed	dial Action	Take	en.*											
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						4	Approved by District Supervisor:									
Printed Name	: Ike Tavar	ez														
Title: Project	Manager						Approval Dat]	Expiration Date:							
									1							
E-mail Addre	ss: aaron.h	ale@tetratech.	.com			(Conditions of	Approval:			Attached					

Phone: (432) 682-4559

^{*} Attach Additional Sheets If Necessary