SITE INFORMATION Report Type: Work Plan General Site Information: Site: Parkway Delaware Unit #208 SM Energy Company Company: Section, Township and Range API 30-015-34433 Lease Number: **Eddy County** County: GPS: 32.62035° N 104.04020° W Surface Owner: Federal Mineral Owner: Northeast of Carlsbad, from the intersection of 360 and CR235, head WNW on CR235 for 4.8 Directions: miles and turn south. Travel the lease road for 1.4 miles, and turn south through another well pad. Continue south for .3 miles to the PDU #2 tank battery and turn east. Travel west (curves to south) for .3 miles. Entrance to well pad is on west side. Release Data: NECEIVED Date Released: 4/25/2012 Type Release: Oil/Produced Water OCT 3 0 2012 Source of Contamination: Stuffing box leak Fluid Released: 9 bbls NMOCD ARTESIA Fluids Recovered: 5 bbls Official Communication: Name: Vickie Martinez Aaron Hale Company: SM Energy Company Tetra Tech Address: 3300 N A St. Suite 200 1910 N. Big Spring P.O. Box City: Midland Texas, 79705 Midland, Texas Phone number: (432) 688-1709 (432) 682-4559 Fax: (432) 688-1701 Email: vmartinez@sm-energy.com aaron.hale@tetratech.com

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
and business of the second second		
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0

Acceptable Soil RRAL (mg/kg)

Total BTEX

50

TPH 5,000

Benzene

10



October 11, 2012

Mr. Mike Bratcher **Environmental Engineer** Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Work Plan SM Energy Company Parkway Delaware Unit Tract 208 Section 35, Township 19S, Range 29E **Eddy County, New Mexico**

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by SM Energy Company (SM Energy) to assess a spill from Parkway Delaware Unit Tract 208 (PDU #208) well, located in Section 35, Township 19S, Range 29E, Eddy County, New Mexico (Site). The spill site coordinates are N 32.62035°, W 104.04020°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico Oil Conservation Division (NMOCD) Form C-141 Initial Report, the leak was discovered on April 25, 2012. The spill from the well head released approximately nine (9) barrels (bbls) of oil and produced water. SM Energy was able to recover approximately five (5) bbls of fluid with a vacuum truck. To alleviate the problem, SM Energy repaired the well head.

The spill impacted an area of approximately 12' x 55' on the well pad. The spill area is shown on Figure 3. The initial Form C-141 is enclosed in Appendix A.



Groundwater

The New Mexico State Engineers Well Report listed one well in Section 35 with an average depth of 110' and wells in Sections 34 and 36 with reported depths of 60' and 115', respectively. The well report is shown in Appendix B.

Previously, Tetra Tech personnel supervised the installation of a temporary well (TMW-1) in Section 35 to establish groundwater quality and depth in this section. During the installation, the well drilled dry. The well was drilled through fine grain sand with gypsum layers and red shale to a total depth of 140', to the top of a black and gray shale formation (blue shale). The well was measured two days later and showed a depth to groundwater of 121 TOC.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the NMOCD 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

On July 12, 2012, Tetra Tech personnel inspected and sampled the spill area. A total of two (2) auger holes (AH-1 through AH-2) were installed using a stainless steel hand auger to assess the impacted areas. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.



Analytical Results

Referring to Table 1, both of the auger hole samples were below the RRAL for TPH and BTEX. However, chloride impact was detected in both AH-1 and AH-2 showing chloride concentrations of 3,030 mg/kg (2-2.5') and 1,900 mg/kg (2-2.5'), respectively. Refusal was encountered at 2.5' bgs at each location.

Work Plan

SM Energy proposes to remove impacted material as highlighted (green) in Table 1 and shown on Figure 4. Trenches, with a backhoe, will be installed to further delineate the depth of impact. Tetra Tech will field screen and collect soil samples during the excavation. Based on the results, the impacted soil will be excavated to the appropriate depth. If delineation suggests deeper impact, the area will be excavated to a depth of approximately 3-4', capped with a 40 mil liner, and backfilled with clean soil. The excavated soil will be hauled to a proper disposal facility. If vertical delineation is not achieved, soil borings will be installed and assessed for further remediation.

Impacted soil around oil and gas equipment, structures or lines may not be feasible or practical to be removed due to safely concerns. As such, Tetra Tech will excavate to necessary practicable depths as determined on site.

Upon completion, a final report will be submitted to the NMOCD. If you have any questions or require any additional information regarding this work plan, please call me at (432) 682-4559.

Respectfully submitted,

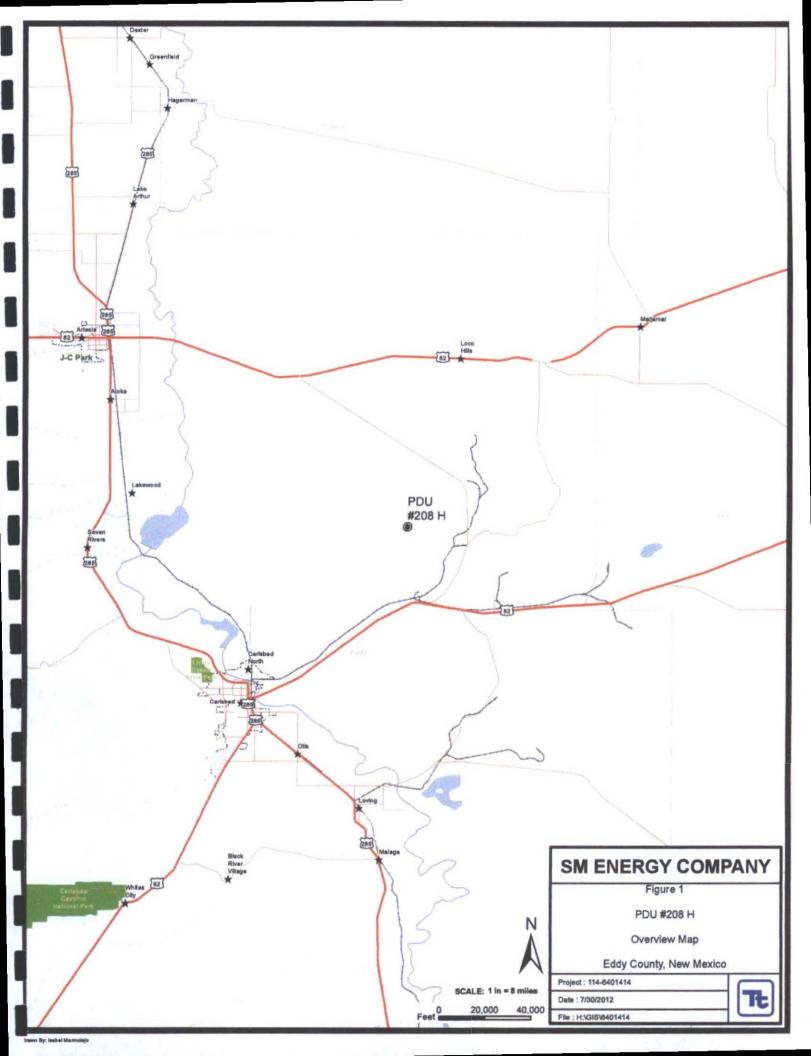
TETRA TECH, Inc.

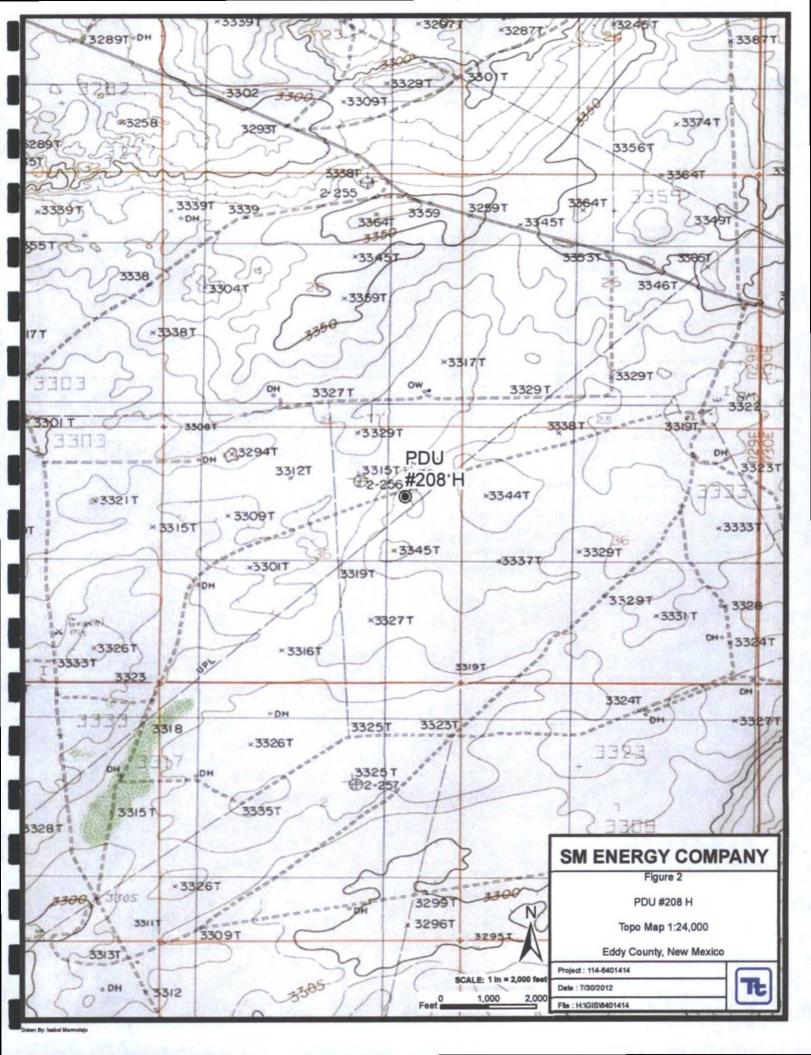
Tom Elliott Staff Scientist

cc: SM Energy Company - File Copy

BLM - Jim Amos

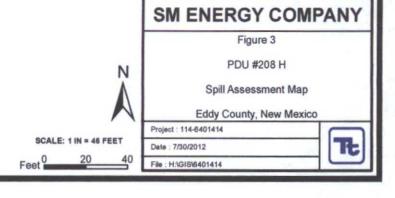
FIGURES





PASTURE PASTURE PAD PJ 4_15'→ 60'

PASTURE



EXPLANATION
 AUGER HOLE SAMPLE LOCATIONS
 SPILL AREA

PASTURE PASTURE PAD PJ 3' - 4' DEEP **4**15'→ 60' PASTURE **SM ENERGY COMPANY** Figure 4 PDU #208 H Proposed Excavation Areas & Depths Map Eddy County, New Mexico **EXPLANATION** Project: 114-6401414 AUGER HOLE SAMPLE LOCATIONS SCALE: 1 IN = 40 FEET Date: 7/30/2012 PROPOSED EXCAVATION AREA Feet 0 File: H:\GIS\6401414

TABLES

SM Energy
Parkway Delaware 208
Eddy County, New Mexico

x	mple	Sample Sample Depth BEB	BEB	Soil	Soil Status	T	TPH (mg/kg)	(6	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
7/12/2012 1-1.5 Bottom - X <2.00 2-2.5	ate	(tt)	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
7/12/2012 1-1.5 Bottom - X <2.00	2/2012	1-1.5 Bottom		×	The same of	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200		4,680
7/12/2012 1-1.5 Bottom - X <2.00		2-2.5	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								1			3,030
7/12/2012 1-1.5 Bottom - X <2.00														
7/12/2012 1-1.5 Bottom - X <2.00														
	2/2012	1-1.5 Bottom	The state of	×		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200 <0.0200	2,440
		2-2.5	100			1				-	The second second			1,900

(-) Not Analyzed

(BEB) Below Excavation Bottom

Proposed Excavation Material

PHOTOGRAPHS

SM Energy Company Parkway Delaware Unit Tract #208 Tank Battery Eddy County, New Mexico



Photo 1. View looking north at spill area and AH-1.

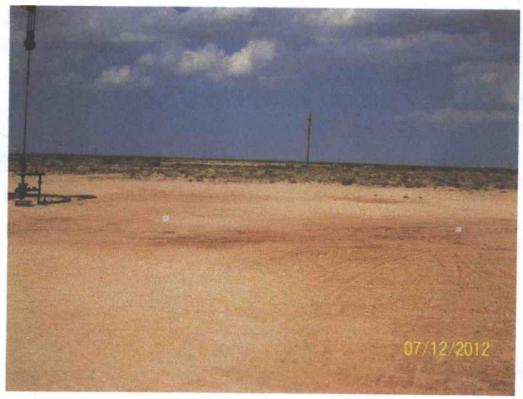


Photo 2. View looking east at spill area with AH-1 and AH-2.

APPENDIX A

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., 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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	ation	and Co	rrective A	ction			
						OPERA?	FOR	X Init	ial Report		Final Report
Name of Co	mpany SN	ENERGY	COMPA	NY	(Contact VIC	KIE MARTIN	EZ			
			-200 MII	DLAND, TX 79			No. (432)688-1	709			
Facility Nan	ne PDU 20)8			I	Pacility Typ	e WELL				
Surface Own	ner BURE	AU OF LA	ND MAN	AGI MINTEL O	wner B	UREAU O	LAND MAN	AGEMENTPI N	0.30-015-34	433	
					TION	OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/West Line	County		
Н	35	198	29E	1438	NORT	н	969	EAST	EDDY		
			La	titude		Longitud	e				
				NAT	URE	OF RELI	EASE				
Type of Relea	se OIL / P	RODUCED	WATER			Volume of		Volume	Recovered 5		
Source of Rel	ease STUF	FING BOX						e 4/25/1 108t00nA	Mour of Disc	overy!	SAME
Was Immedia	te Notice C		V [No ☐ Not Re	and and	If YES, To					
			res L	NO LI NOT KE	quirea	A TOM THE PROPERTY OF THE PARTY	ATCHER AND				
By Whom? B Was a Watero							our 4/25/12 10:				
was a water	ourse Reac		Yes 🛚	No		11 1123, 40	nume impacting t	ne watercourse.			
If a Watercou	rse was Imp	pacted, Descri	be Fully.								
N/A											
Describe Caus	e of Proble	and Remo	dial Action	Taken.*							
PUMPED O	FF BURN	ING STUF	FING BO	4/24/12 AND PU X PACKING C EVALUATION	AUSIN	G UNIT W	AS LEFT ON I LEAK. SM E	IAND INSTEA NERGY COMP	O OF AUTO ANY WILL	WE TURI	LL N THIS
Describe Area	Affected a	nd Cleanup A	ction Tak	en.*							
WITH NEW	CALICH	TAKEN IS E.	DUG OU					CRI FOR DISP			
regulations all public health of should their or	operators a or the environment has ment. In ac-	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accept	d/or file certain re e of a C-141 report investigate and re	lease no it by the mediate	tifications an NMOCD ma contamination	d perform correct arked as "Final Roon that pose a three	nderstand that pur tive actions for re- eport" does not re- eat to ground water responsibility for o	eases which n ieve the opera r, surface water	nay end tor of l	danger liability nan health
Signature:	îcu	in	ton	unes			OIL CONS	SERVATION	DIVISIO	N	
Printed Name:	VICKIE	MARTINEZ		9	A	approved by	Environmental S	pecialist:			
Title: ENGI	NEER TE	CHII			A	pproval Date	e:	Expiration	Date:		
E-mail Addres	s: VMAR	TINEZ@SM	-ENERG	Y.COM	c	conditions of	Approval:		Attached		
Date: 05/09/2	STREET, SQUARE, SQUARE	1631		(432)688-1709							

APPENDIX B



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD		Q	Q	Q						Depth	Depth	Water
POD Number	Code Subbasin	County	64	16	4	Sec	Tws	Rng	X	Y	THE RESERVE OF THE PARTY OF THE	STATE OF THE STATE	Column
CP 00681		ED	1	1	3	34	198	29E	587230	3609127*	t		
CP 00703		ED		4	1	36	198	29E	590945	3609441*	225	115	110
CP 00739		ED	3	4	4	35	198	29E	589246	3608217	200	110	90
CP 00741		ED	1	3	2	34	198	29E	588030	3609533*	230	60	170
									Avers	age Denth t	o Water	95	feet

Average Depth to Water:

Minimum Depth: 60 feet

Maximum Depth: 115 feet

Record Count: 4

PLSS Search:

Section(s): 34-36

Township: 19S

Range: 29E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

Water Well Data Average Depth to Groundwater (ft) SM ENERGY COMPANY - PARKWAY DELAWARE UNIT TRACT 208 Eddy County, New Mexico

		South	-	28 East	-	-	_	South		East			_	South		30 East	
3	5	108	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8 69	9	10	11	12	7	8	9	10 98	11	12	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
49	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35 65	36	31	32	33	34	35	36	31	32	33	34	35	36
	19	South		28 East	1		19 8	South	29	East			19	South	:	30 East	1
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8	9 246	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
18 91	17	16	15	14	13	18	17	16	15	14	13 123	18	17	16	15	14	13
19	20	21	22	23	24	19	20 62.9	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34 62°	35 121 110	36 115	31 115	32	33	34	35	36
	20.5	South	,	28 East			20.5	South		East	110	110	20 :	South		30 East	_
3	5	4	3	2	1	6	5	4	3 91	2	1	6		5 4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20 62	21	22	23	24	19	20	21	22	23	24
30	29	28	27 35	26	25	30 52	29	28	27	26	25	30	29	28	27	26	25
31 115	32	33 25	34	35	36 19	31	32	33	34	35	36	31	32 170	33 191	34	35	36

New Mexico State Engineers Well Reports

New Mexico Water and Infrastructure Data System Tetra Tech Temporary well (TD 180' - Dry Well)

Geology and Groundwater Conditions in Southern Eddy, County, NM

USGS Well Reports

Field water level

NMOCD - Groundwater Data

APPENDIX C

Page Number: 1 of 2

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: July 23, 2012

Work Order: 12071338

Project Name: SME/PDU 208 Project Number: 114-6401414

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
303708	AH-1 (1-1.5') Bottom	soil	2012-07-12	00:00	2012-07-13
303709	AH-1 (2-2.5')	soil	2012-07-12	00:00	2012-07-13
303710	AH-2 (1-1.5') Bottom	soil	2012-07-12	00:00	2012-07-13
303711	AH-2 (2-2.5')	soil	2012-07-12	00:00	2012-07-13

			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)
303708 - AH-1 (1-1.5') Bottom	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00
303710 - AH-2 (1-1.5') Bottom	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00

Sample: 303708 - AH-1 (1-1.5') Bottom

Param	Flag	Result	Units	RL
Chloride		4680	mg/Kg	4

Sample: 303709 - AH-1 (2-2.5')

Param	Flag	Result	Units	RL
Chloride		3030	mg/Kg	4

Sample: 303710 - AH-2 (1-1.5') Bottom

Param	Flag	Result	Units	RL
Chloride		2440	mg/Kg	4

Work Order: 12071338

Page Number: 2 of 2

Sample: 303711 - AH-2 (2-2.5')

Param	Flag	Result	Units	RL
Chloride		1900	mg/Kg	4



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E

Midland. 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100 Carroliton.

El Paso. Texas 79922 Texas 79703 Texas 75006

800-378-1296

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

432 - 689 - 6301 972-242-7750

FAX 432 - 689 - 6313

E-Mail: lab@traceanalysis.com WEB www.traceanalysis.com

Certifications

NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: July 23, 2012

Work Order: 12071338

Project Name: SME/PDU 208 Project Number: 114-6401414

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
303708	AH-1 (1-1.5') Bottom	soil	2012-07-12	00:00	2012-07-13
303709	AH-1 (2-2.5')	soil	2012-07-12	00:00	2012-07-13
303710	AH-2 (1-1.5') Bottom	soil	2012-07-12	00:00	2012-07-13
303711	AH-2 (2-2.5')	soil	2012-07-12	00:00	2012-07-13

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

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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

Report Contents

Case Narrative
Analytical Report 4 Sample 303708 (AH-1 (1-1.5') Bottom) 4 Sample 303709 (AH-1 (2-2.5')) 5 Sample 303710 (AH-2 (1-1.5') Bottom) 5 Sample 303711 (AH-2 (2-2.5')) 7
Method Blanks 8 QC Batch 93140 - Method Blank (1) 8 QC Batch 93166 - Method Blank (1) 8 QC Batch 93244 - Method Blank (1) 8 QC Batch 93245 - Method Blank (1) 9
Laboratory Control Spikes 10 QC Batch 93140 - LCS (1) 10 QC Batch 93166 - LCS (1) 10 QC Batch 93244 - LCS (1) 10 QC Batch 93245 - LCS (1) 11 QC Batch 93140 - MS (1) 12 QC Batch 93166 - MS (1) 12 QC Batch 93244 - MS (1) 13 QC Batch 93245 - MS (1) 13
Calibration Standards 15 QC Batch 93140 - CCV (1) 15 QC Batch 93140 - CCV (2) 15 QC Batch 93140 - CCV (3) 15 QC Batch 93140 - CCV (4) 15 QC Batch 93166 - CCV (1) 15 QC Batch 93166 - CCV (2) 16 QC Batch 93244 - CCV (1) 16 QC Batch 93244 - CCV (2) 16 QC Batch 93244 - CCV (3) 16 QC Batch 93245 - CCV (1) 17 QC Batch 93245 - CCV (2) 17 QC Batch 93245 - CCV (3) 17 QC Batch 93245 - CCV (3) 17
Appendix18Report Definitions18Laboratory Certifications18Standard Flags18

Case Narrative

Samples for project SME/PDU 208 were received by TraceAnalysis, Inc. on 2012-07-13 and assigned to work order 12071338. Samples for work order 12071338 were received intact at a temperature of 4.8 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	79057	2012-07-20 at 16:07	93245	2012-07-20 at 16:07
Chloride (Titration)	SM 4500-Cl B	78955	2012-07-17 at 12:43	93166	2012-07-18 at 16:04
TPH DRO - NEW	S 8015 D	78968	2012-07-17 at 16:30	93140	2012-07-18 at 19:00
TPH GRO	S 8015 D	79057	2012-07-20 at 16:07	93244	2012-07-20 at 16:07

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 12071338 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.

114-6401414

Work Order: 12071338 SME/PDU 208 Page Number: 4 of 18

Analytical Report

Sample: 303708 - AH-1 (1-1.5') Bottom

Laboratory: Lubbock

Analysis: BTEX QC Batch: 93245 Prep Batch: 79057 Analytical Method: S 8021B
Date Analyzed: 2012-07-20
Sample Preparation: 2012-07-20

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

RLUnits Dilution Parameter Flag Cert Result RLBenzene < 0.0200 mg/Kg 0.0200 U 1 Toluene < 0.0200 mg/Kg 1 0.0200 Ethylbenzene < 0.0200 mg/Kg 1 0.0200 U 1 1 Xvlene U < 0.0200 mg/Kg 0.0200 1

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.75	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.77	mg/Kg	1	2.00	88	70 - 130

Sample: 303708 - AH-1 (1-1.5') Bottom

Laboratory: Midland

Analysis: Chloride (Titration)
QC Batch: 93166
Prep Batch: 78955

Analytical Method: SM 4500-Cl B Date Analyzed: 2012-07-18 Sample Preparation: 2012-07-17

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

Sample: 303708 - AH-1 (1-1.5') Bottom

Laboratory: Midland

Analysis: TPH DRO - NEW QC Batch: 93140 Prep Batch: 78968 Analytical Method: S 8015 D
Date Analyzed: 2012-07-18
Sample Preparation: 2012-07-17

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

114-6401414

Work Order: 12071338

Page Number: 5 of 18

SME	/PDU	208

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qar	Qar		210	mg/Kg	1	100	210	49.3 - 157.5

Sample: 303708 - AH-1 (1-1.5') Bottom

Laboratory:

Lubbock

Analysis: QC Batch: TPH GRO

93244 Prep Batch: 79057 Analytical Method: Date Analyzed:

S 8015 D 2012-07-20

Sample Preparation: 2012-07-20 Prep Method: S 5035 Analyzed By: MT

Prepared By: MT

			RL
Parameter	Flag	Cert	Result

Units Dilution RLGRO < 2.00 mg/Kg 2.00 U 1

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.62	mg/Kg	1	2.00	81	70 - 130
4-Bromofluorobenzene (4-BFB)			1.85	mg/Kg	1	2.00	92	70 - 130

Sample: 303709 - AH-1 (2-2.5')

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 93166 Prep Batch: 78955 Analytical Method: Date Analyzed:

SM 4500-Cl B 2012-07-18 Sample Preparation: 2012-07-17

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

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			3030	mg/Kg	10	4.00

Sample: 303710 - AH-2 (1-1.5') Bottom

Laboratory: Lubbock

Analysis: BTEX 93245 QC Batch: Prep Batch: 79057

Analytical Method: S 8021B Date Analyzed: 2012-07-20 Sample Preparation: 2012-07-20

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

continued ...

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sample 303710 continued . . .

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	1	< 0.0200	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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery
Trifluorotoluene (TFT)			1.99	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			1.98	mg/Kg	1	2.00	99	70 - 130

Sample: 303710 - AH-2 (1-1.5') Bottom

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 93166

Prep Batch: 78955

Analytical Method:

Date Analyzed: 2012-07-18 Sample Preparation: 2012-07-17

SM 4500-Cl B Prep Method: N/A Analyzed By: AR

Prepared By:

AR

RL Cert Result Units Dilution RLParameter Flag Chloride 2440 mg/Kg 4.00

Sample: 303710 - AH-2 (1-1.5') Bottom

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 93140 Prep Batch: 78968

Analytical Method: S 8015 D Date Analyzed: Sample Preparation: 2012-07-17

Prep Method: N/A Analyzed By: CW 2012-07-18 Prepared By: CW

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	U	2	< 50.0	mg/Kg	1	50.0

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			131	mg/Kg	1	100	131	49.3 - 157.5

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Sample: 303710 - AH-2 (1-1.5') Bottom

Laboratory: Lubbock

Analysis: TPH GRO QC Batch: 93244 Prep Batch: 79057

Analytical Method: S 8015 D Date Analyzed: 2012-07-20 Sample Preparation: 2012-07-20

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

RL

Parameter Flag Cert Result Units Dilution RL GRO < 2.00 mg/Kg 2.00 U 1

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	70 - 130

Sample: 303711 - AH-2 (2-2.5')

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 93166 Prep Batch: 78955

Analytical Method: SM 4500-Cl B Date Analyzed: 2012-07-18 Sample Preparation: 2012-07-17

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

RL Dilution Parameter Flag Cert Result Units RL Chloride 1900 mg/Kg 10 4.00

114-6401414

Work Order: 12071338 SME/PDU 208

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Method Blanks

Method Blank (1)

Prep Batch: 78968

QC Batch: 93140

QC Batch:

93140

Date Analyzed:

2012-07-18

QC Preparation: 2012-07-17 Analyzed By: CW Prepared By:

CW

MDL

Parameter Flag Cert Result Units RL DRO <14.5 mg/Kg 50 2

Percent Recovery Spike Surrogate Flag Cert Result Units Dilution Amount Recovery Limits n-Tricosane 107 100 107 52 - 160.8 mg/Kg 1

Method Blank (1)

QC Batch: 93166

QC Batch: 93166 Prep Batch: 78955 Date Analyzed: 2012-07-18 QC Preparation: 2012-07-17

Analyzed By: AR Prepared By: AR

MDL Parameter Cert Result Flag

Units RL Chloride < 3.85 mg/Kg

Method Blank (1)

QC Batch: 93244

QC Batch: Prep Batch: 79057

93244

Date Analyzed: QC Preparation:

2012-07-20 2012-07-20

Analyzed By: MT Prepared By: MT

MDL Units RL Parameter Flag Cert Result GRO < 0.359 mg/Kg

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.55	mg/Kg	1	2.00	78	70 - 130
4-Bromofluorobenzene (4-BFB)			1.83	mg/Kg	1	2.00	92	70 - 130

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Method Blank (1)

QC Batch: 93245

QC Batch: Prep Batch: 79057

93245

Date Analyzed: QC Preparation: 2012-07-20

2012-07-20

Analyzed By: MT Prepared By: MT

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Benzene		1	< 0.00365	mg/Kg	0.02
Toluene		1	< 0.00816	mg/Kg	0.02
Ethylbenzene		1	< 0.00560	mg/Kg	0.02
Xylene		1	0.0121	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.63	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.74	mg/Kg	1	2.00	87	70 - 130

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Work Order: 12071338 SME/PDU 208 Page Number: 10 of 18

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 93140 Prep Batch: 78968 Date Analyzed: 2012-07-18 QC Preparation: 2012-07-17 Analyzed By: CW

Prepared By: CW

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		2	213	mg/Kg	1	250	<14.5	85	62 - 128.3

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	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		2	224	mg/Kg	1	250	<14.5	90	62 - 128.3	5	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	122	126	mg/Kg	1	100	122	126	58.6 - 149.6

Laboratory Control Spike (LCS-1)

QC Batch:

Param

Chloride

93166

Date Analyzed:

LCS

Result

2580

2012-07-18

Analyzed By: AR Prepared By: AR

Prep Batch: 78955

QC Preparation: 2012-07-17

 Units
 Dil.
 Amount Amount Amount Result Rec.
 Rec. Limit Limit Rec.

 Limit Mg/Kg
 1
 2500
 <3.85</td>
 103
 85 - 115

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

C

F

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2680	mg/Kg	1	2500	< 3.85	107	85 - 115	4	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 79057

93244

Date Analyzed:

2012-07-20

QC Preparation: 2012-07-20 Analyzed By: MT

Prepared By: MT

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		1	16.4	mg/Kg	1	20.0	< 0.359	82	68.9 - 120

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	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		1	16.0	mg/Kg	1	20.0	< 0.359	80	68.9 - 120	2	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)	1.68	1.49	mg/Kg	1	2.00	84	74	70 - 130
4-Bromofluorobenzene (4-BFB)	1.94	1.89	mg/Kg	1	2.00	97	94	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:

93245 Prep Batch: 79057 Date Analyzed:

2012-07-20

QC Preparation: 2012-07-20

Analyzed By: MT Prepared By: MT

LCS Spike Matrix Rec. Param F C Result Units Dil. Amount Result Rec. Limit Benzene 1.82 mg/Kg 2.00 < 0.00365 91 75.4 - 120 1 2.00 1.76 mg/Kg 1 < 0.00816 88 74.9 - 120Toluene 2.00 < 0.00560 78.1 - 120 Ethylbenzene 1.74 mg/Kg 1 87 88 Xylene 5.25 mg/Kg 1 6.00 0.0121 77.3 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.78	mg/Kg	1	2.00	< 0.00365	89	75.4 - 120	2	20
Toluene		1	1.77	mg/Kg	1	2.00	< 0.00816	88	74.9 - 120	1	20
Ethylbenzene		1	1.76	mg/Kg	1	2.00	< 0.00560	88	78.1 - 120	1	20
Xylene		1	5.26	mg/Kg	1	6.00	0.0121	88	77.3 - 120	0	20

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

continued ...

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Work Order: 12071338 SME/PDU 208

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control spikes continued ...

Constitut Spiness Constitution	LCS	LCSD		D.11	Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.71	1.58	mg/Kg	1	2.00	86	79	70 - 130
4-Bromofluorobenzene (4-BFB)	1.79	1.75	mg/Kg	1	2.00	90	88	70 - 130

Matrix Spike (MS-1) Spiked Sample: 303708

QC Batch:

93140

Date Analyzed:

2012-07-18

Analyzed By: CW Prepared By: CW

Prep Batch: 78968

QC Preparation: 2012-07-17

			MS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		2	236	mg/Kg	1	250	<14.5	94	45.5 - 127

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	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		2	240	mg/Kg	1	250	<14.5	96	45.5 - 127	2	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	120	115	mg/Kg	1	100	120	115	45.4 - 145.8

Matrix Spike (MS-1) Spiked Sample: 303726

QC Batch:

93166

Date Analyzed:

2012-07-18

Analyzed By: AR

Prep Batch: 78955

QC Preparation: 2012-07-17

Prepared By: AR

			MS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2640	mg/Kg	5	2500	<19.2	106	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	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2770	mg/Kg	5	2500	<19.2	111	79.4 - 120.6	5	20

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Work Order: 12071338

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

Matrix Spike (MS-1) Spiked Sample: 303804

QC Batch: 93244

Date Analyzed:

2012-07-20

Analyzed By: MT

Prep Batch: 79057

QC Preparation: 2012-07-20

Prepared By: MT

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			MS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		1	16.3	mg/Kg	1	20.0	< 0.359	82	70 - 130

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}	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		1	16.5	mg/Kg	1	20.0	< 0.359	82	70 - 130	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)	1.64	1.63	mg/Kg	1	2	82	82	70 - 130
4-Bromofluorobenzene (4-BFB)	2.09	2.11	mg/Kg	1	2	104	106	70 - 130

Matrix Spike (MS-1) Spiked Sample: 303804

QC Batch: 93245 Prep Batch: 79057 Date Analyzed: 2012-07-20 QC Preparation: 2012-07-20 Analyzed By: MT Prepared By: MT

			MS			Spike	Matrix		Rec.	
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	
Benzene		1	1.71	mg/Kg	1	2.00	< 0.00365	86	37.6 - 142	
Toluene		1	1.83	mg/Kg	1	2.00	< 0.00816	92	38.6 - 153	
Ethylbenzene		1	1.94	mg/Kg	1	2.00	< 0.00560	97	36.7 - 172	
Xylene		1	5.87	mg/Kg	1	6.00	< 0.00460	98	36.7 - 173	

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	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		1	1.68	mg/Kg	1	2.00	< 0.00365	84	37.6 - 142	2	20
Toluene		1	1.81	mg/Kg	1	2.00	< 0.00816	90	38.6 - 153	1	20
Ethylbenzene		1	1.92	mg/Kg	1	2.00	< 0.00560	96	36.7 - 172	1	20
Xylene		1	5.81	mg/Kg	1	6.00	< 0.00460	97	36.7 - 173	1	20

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

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Work Order: 12071338 SME/PDU 208 Page Number: 14 of 18

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.90	1.90	mg/Kg	1	2	95	95	70 - 130
4-Bromofluorobenzene (4-BFB)	1.94	1.89	mg/Kg	1	2	97	94	70 - 130

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Calibration Standards

Standard (CCV-1)

QC Batch: 93140

Date Analyzed: 2012-07-18

Analyzed By: CW

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		2	mg/Kg	250	212	85	80 - 120	2012-07-18

Standard (CCV-2)

QC Batch: 93140

Date Analyzed: 2012-07-18

Analyzed By: CW

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		2	mg/Kg	250	262	105	80 - 120	2012-07-18

Standard (CCV-3)

QC Batch: 93140

Date Analyzed: 2012-07-18

Analyzed By: CW

				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		2	mg/Kg	250	266	106	80 - 120	2012-07-18

Standard (CCV-4)

QC Batch: 93140

Date Analyzed: 2012-07-18

Analyzed By: CW

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		2	mg/Kg	250	253	101	80 - 120	2012-07-18

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Work Order: 12071338

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Standard (CCV-1)

QC Batch: 93166

Date Analyzed: 2012-07-18

Analyzed By: AR

Param Chloride	Flag	Cert	Units mg/Kg	Conc. 100	Conc. 100	Recovery 100	Limits 85 - 115	Analyzed 2012-07-18
	F11			True	Found	Percent	Recovery	Date
				CCVs	CCVs	CCVs	Percent	

Standard (CCV-2)

QC Batch: 93166

Date Analyzed: 2012-07-18

Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.6	100	85 - 115	2012-07-18

Standard (CCV-1)

QC Batch: 93244

Date Analyzed: 2012-07-20

Analyzed By: MT

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	0.850	85	80 - 120	2012-07-20

Standard (CCV-2)

QC Batch: 93244

Date Analyzed: 2012-07-20

Analyzed By: MT

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	0.810	81	80 - 120	2012-07-20

Standard (CCV-3)

QC Batch: 93244

Date Analyzed: 2012-07-20

Analyzed By: MT

114-6401414

Work Order: 12071338 SME/PDU 208 Page Number: 17 of 18

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.805	80	80 - 120	2012-07-20

Standard (CCV-1)

QC Batch: 93245

Date Analyzed: 2012-07-20

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0913	91	80 - 120	2012-07-20
Toluene		1	mg/kg	0.100	0.0895	90	80 - 120	2012-07-20
Ethylbenzene		1	mg/kg	0.100	0.0888	89	80 - 120	2012-07-20
Xylene		1	mg/kg	0.300	0.267	89	80 - 120	2012-07-20

Standard (CCV-2)

QC Batch: 93245

Date Analyzed: 2012-07-20

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0868	87	80 - 120	2012-07-20
Toluene		1	mg/kg	0.100	0.0849	85	80 - 120	2012-07-20
Ethylbenzene		1	mg/kg	0.100	0.0838	84	80 - 120	2012-07-20
Xylene		1	mg/kg	0.300	0.251	84	80 - 120	2012-07-20

Standard (CCV-3)

QC Batch: 93245

Date Analyzed: 2012-07-20

Analyzed By: MT

				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		1	mg/kg	0.100	0.0845	84	80 - 120	2012-07-20
Toluene		1	mg/kg	0.100	0.0811	81	80 - 120	2012-07-20
Ethylbenzene		1	mg/kg	0.100	0.0808	81	80 - 120	2012-07-20
Xylene		1	mg/kg	0.300	0.243	81	80 - 120	2012-07-20

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Appendix

Report Definitions

Name	Definition	
MDL	Method Detection Limit	
MQL	Minimum Quantitation Limit	
SDL	Sample Detection Limit	

Laboratory Certifications

	Certifying	Certification	Laboratory
C	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock
2	NELAP	T104704392-12-4	Midland

Standard Flags

Description

- B Analyte detected in the corresponding method blank above the method detection
- Analyzed out of hold time
- 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
- Spike recovery outside of laboratory limits.
- Surrogate recovery outside of laboratory limits.
 - 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.

RUSH Charges Authorized: Results by: Major Anions/Cations, pH, TDS OF: AIRBILL #: OTHER: Circle or Specify Method No.) ANALYSIS REQUEST 1,000 ma/102 PAGE: PCB's 8080/608 TETRA TECH CONTACT PERSON GC.MS Semi. Vol. 8270/625 BUS SAMPLE SHIPPED BY: (4) TCLP Semi Volatiles TCLP Metals Ag As Ba Cd Vr Pd Hg Se FEDEX RCRA Metals Ag As Ba Cd Cr Pb Hg Se Weed **PAH 8270** Ha (Ext. to C35) BTEX 80218 PRESERVATIVE METHOD 3 NONE of Chain of Custody Record ICE Time: Time: Date: Date: HMO3 HCF FILTERED (Y/N) Return Orginal copy to Tetra Tech TIME: илмаев о соитыиера DYARS! (432) 682-4559 • Fax (432) 682-3946 RECEIVED BY: (Signature) SAMPLE IDENTIFICATION RECEIVED BY: (Signature) **TETRA TECH** 1910 N. Big Spring St. Midland, Texas 79705 SITE MANAGER: 1/2 -2.5 DATE PROJECT NAME: PD() Pleafse fill out all copies - Laboratory retains Date: 71/5/1/ MH HH ŧ ZIP: **Analysis Request** Time: Date: Date: PHONE: SARD COMP S XIRTAM SAMPLE CONDITION WHEN RECEIVED: TIME SWELERGY RELINQUISHED BY: (Signishine) RELINQUISHED 8Y: (Signature) 14-10401-414 7/12/12 RECEIVING LABORATORY: DATE RELINQUISHED BY: (Sign CLIENT NAME: PROJECT NO .: B15108 07 LAB I.D. NUMBER 28 CONTACT ADDRESS:

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BTED DATE do appear as

AIRBILZ N 50203 RUSH Charges Authorized: Results by: Major Anions/Cations, pH, TDS Yes P. PLM (Asbestos) Circle or Specify Method No.) Alpha Beta (Air) ANALYSIS REQUEST Chloride Pest. 808/608 PAGE: SCB,2 8080/608 TETRA TECH CONTACT PERSON: GC.MS Semi. Vol. 8270/625 BUS Sdn SANDLED BY: (Print & Intile RCI WAND DEENERED TCLP Semi Volatiles TCLP Metals Ag As Ba Cd Vr Pd Hg Se FEDEX RCRA Metals Ag As Ba Cd Cr Pb Hg Se **DAH 8270** GOM STOS Hd (Ext. to C35) 2001XT BTEX 80218 PRESERVATIVE NONE 3 METHOD Analysis Request of Chain of Custody Record ICE 9:05 Time: Date: HINO3 нсг FILTERED (Y/N) eturn Orginal copy to Tetra Tech NUMBER OF CONTAINERS DYAPS (432) 682-4559 • Fax (432) 682-3946 RECEIVED BY: (Signature) SAMPLE IDENTIFICATION **TETRA TECH** 1910 N. Big Spring St. Midland, Texas 79705 7-25 DATE SITE MANAGER: My down Dambe PROJECT NAME: PDI) 1115/11 Please fill out all copies - Laboratory re 110 AH-ZIP Date: Time: PHONE BARD COMP S ≯ XIFTAM SAMPLE CONDITION WHEN RECEIVED: TIME RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) 7/12/2 7-1-10401-4 DATE RECEIVING LABORATORY: ADDRESS: PROJECT NO .: CLIENT NAME **509** 0 LAB I.D. NUMBER 200 CONTACT CIL

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