	SITE INFORMATION									
	Re	port Type:	Closure	Report	2RP-15	511				
General Site Info	ormation:									
Site:		Parkway Del	aware Unit #2	Tank Batte	ry					
Company:		SM Energy C								
Section, Towns		Unit O	Sec. 26	T 19S	R 29E					
Lease Number:		API No. 30-015-26112								
County:		Eddy County								
GPS:			32.62122º N			104.04383° W				
Surface Owner:		Federal								
Mineral Owner:		Northeast of C	arlehad from th	a intersection	of 360 and 0	R235, head WNW on CR2	235 for 4.8			
Directions:		miles and turn	•	e lease road fo	or 1.4 miles,	and turn south through and				
Release Data:										
Date Released:		7/21/2012								
Type Release:			Oil							
Source of Contai	mination:	_	water dump lin	ne on the free	e water kno	ck out				
Fluid Released: Fluids Recovered	d.	100 bbls 72 bbls								
Official Commu		72 DDIS								
Name:	Zachary Luikens				lke Tavare	ez				
Company:	SM Energy Compa	anv			Tetra Tec	h				
Address:	6301 Holiday Hill R					Big Spring St.				
- 133.000.	Bldg #1					Ste 401				
City:	Midland, Texas 79	707			Midland, T					
Phone number: (432) 688-3138					(432) 682					
Fax:	(432) 688-1701				(102) 302					
Email:	zluikens@sm-en	eray com			iko tavar	ez@tetratech.com				

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	Site Data
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
Total Ranking Score:	0	
		<u> </u>
Ac	ceptable Soil RRAL (r	mg/kg)
Benz	ene Total BTEX	TPH
10	50	5,000



August 23, 2016

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

Re: **Closure Report SM Energy Company** Parkway Delaware Unit Tract 2 Tank Battery Section 35, Township 19S, Range 29E **Eddy County, New Mexico** 2RP-1511

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by SM Energy Company (SM Energy) to assess a spill from Parkway Delaware Unit Tract 2 (PDU #2) tank battery, located in Section 35, Township 19S, Range 29E, Eddy County, The spill site coordinates are N 32.62122°, W New Mexico (Site). 104.04383°. 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 December 6, 2012. The spill, which was the result of a malfunctioning murphy switch, released 35 bbl of produced water. SM Energy was able to recover approximately 30 bbls with a vacuum truck.

The spill impacted the area within the tank battery dike measured approximately 30' x 115'. 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

Tetra Tech responded to the release and supervised the remediation of the impacted soils. The area was excavated to approximately 1.0' below surface; to the maximum extent possible. Further excavation was not performed due to access and safety issues.

On January 22, 2013, Tetra Tech personnel returned to the site to collect confirmation samples. Six (6) auger holes were installed (AH-1 through AH-6) in the release area to assess the soils. 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, the areas of auger holes (AH-1, AH-2, and AH-5) did not show any TPH or BTEX concentrations above the RRAL's. However, the areas of auger holes (AH-3, AH-4, and AH-6) showed TPH concentrations above the RRAL's of 9,630 mg/kg, 5,298 mg/kg, and 11,990 mg/kg at 0-1', respectively. The TPH concentrations then declined with depth to below the RRAL. Additionally, these areas did show total BTEX concentrations above the RRAL's that also declined with depth.

The area of auger hole (AH-1 and AH-6) showed chloride impact that increased with depth, with bottom hole concentrations of 993 mg/kg at 3-3.5' and 312 mg/kg at 1-1.5' below surface, respectively. The areas of auger holes (AH-3 and AH-5) showed chloride concentrations that decreased with depth; with chloride highs of 1,260 mg/kg and 830 mg/kg at 0-1' below surface, respectively. These areas then declined to 175 mg/kg at 9-9.5' and 312 mg/kg at 4-4.5' below surface. The areas of auger holes (AH-2 and AH-4) showed chloride concentrations of 76.9 mg/kg and 441 mg/kg at 0-1', respectively.

Conclusion

Based on the remedial work already performed, which was to the maximum extent practicable due to access and safety issues, SM Energy requests to have this release, or areas of auger holes (AH-3, AH-4, and AH-6), deferred until abandonment. The Final C-141 is included in Appendix A. 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.**

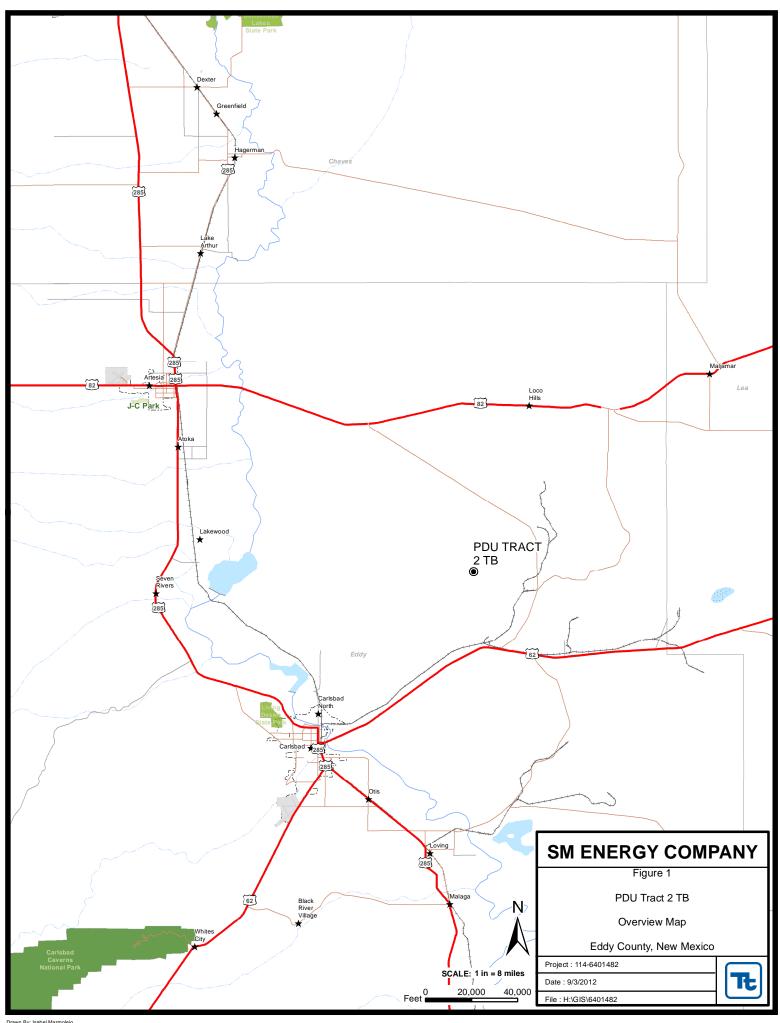
Ike Tavarez,

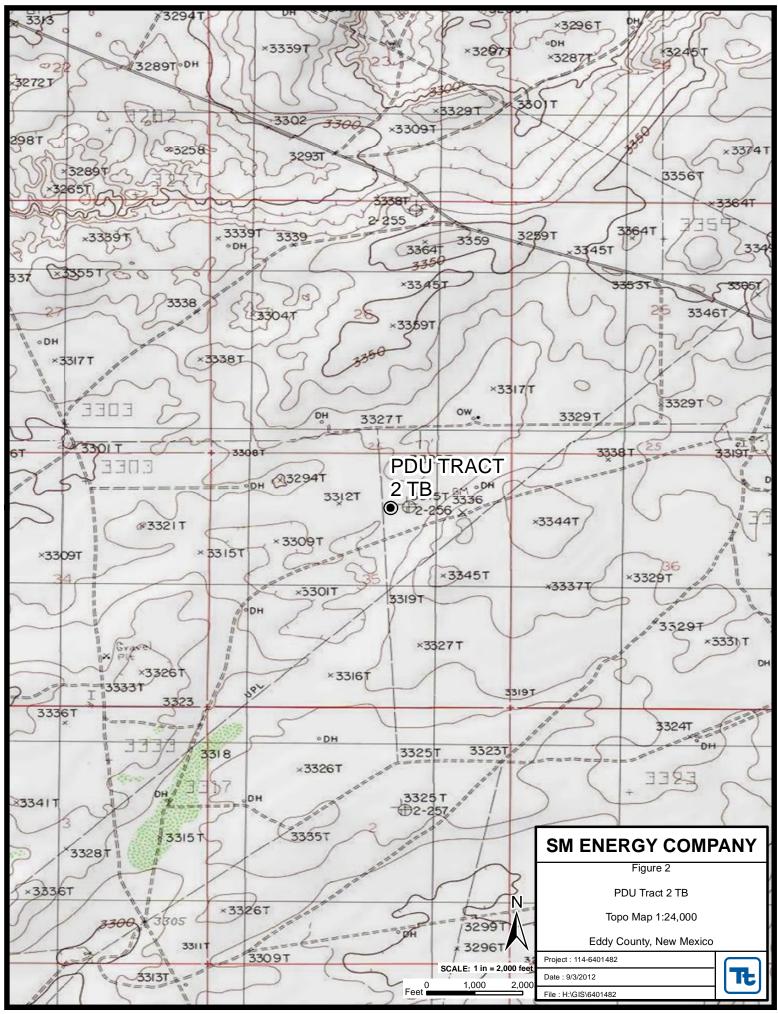
Senior Project Manager

cc: Zach Luikens – SM Energy

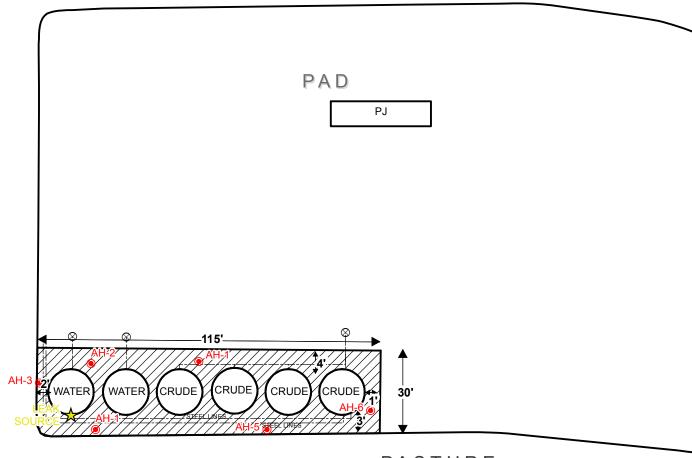
BLM - Jim Amos

Figures

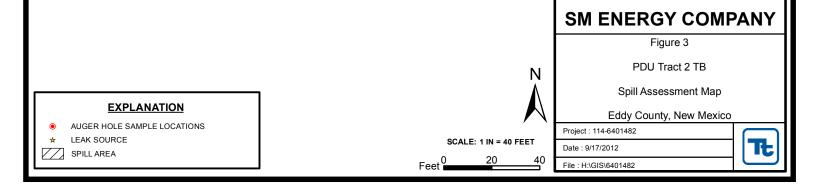


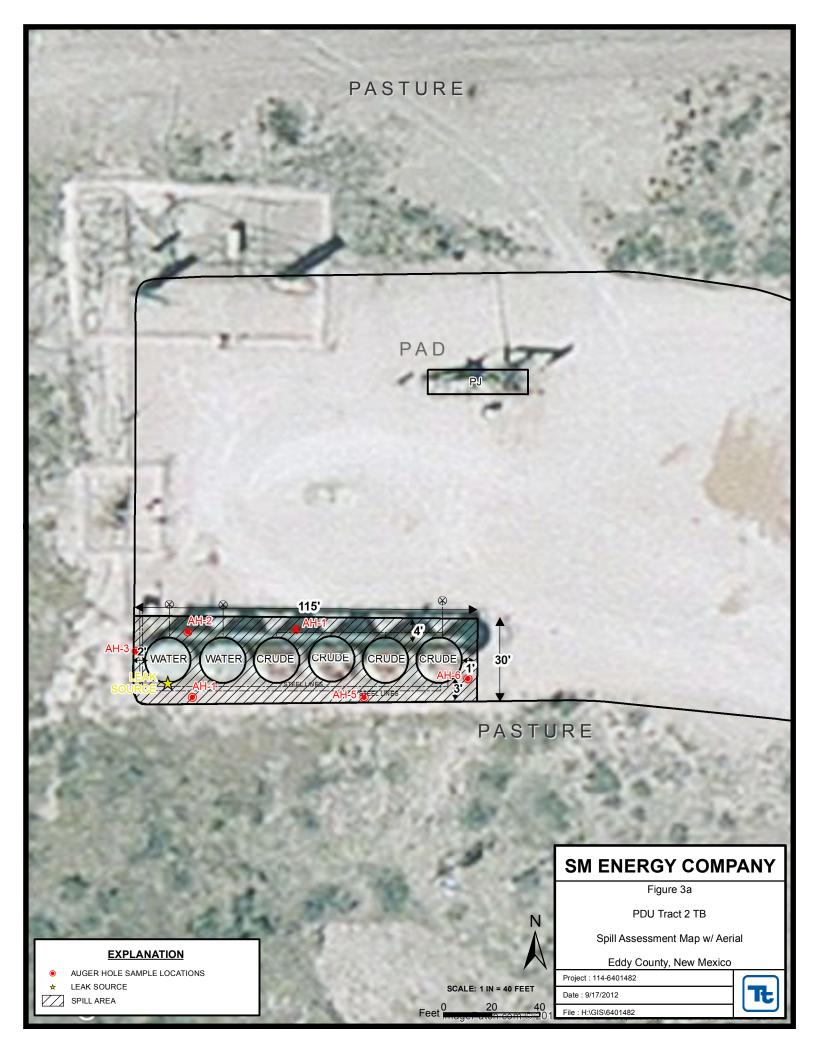


PASTURE



PASTURE





Tables

Table 1
SM Energy
Parkway Delaware Unit Tract 2
Eddy County, New Mexico

Sample	Sample	Sample	Soi	I Status	TF	H (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
AH-1	1/22/2013	0-1	Χ		71.9	365	437	<0.0200	<0.0200	<0.0200	0.521	0.521	236
	"	1-1.5	Х		-	-	-	-	-	-	-	-	245
	"	2-2.5	Х		-	-	-	-	-	-	-	-	672
	II .	3-3.5	Х		-	-	-	-	-	-	-	-	993
AH-2	1/22/2013	0-1	Х		265	912	1,177	<0.100	0.875	1.30	3.18	5.36	76.9
AH-3	1/22/2013	0-1	Х		4,190	5,440	9,630	<1.00	13.8	<1.00	90.5	104	1,260
	II .	1-1.5	Х		3,110	1,590	4,700	<0.400	6.32	8.17	36.8	51.3	692
	"	2-2.5	Х		-	-	-	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	154
	"	3-3.5	Х		-	-	-	-	-	-	-	-	71.1
	"	4-4.5	Х		-	-	-	-	-	-	-	-	75.9
	"	5-5.5	Х		-	-	-	-	-	-	-	-	42.7
	"	6-6.5	Х		-	-	-	-	-	-	-	-	<20.0
	"	7-7.5	Х		-	-	-	-	-	-	-	-	123
	"	8-8.5	Х		-	-	-	-	-	-	-	-	156
	II .	9-9.5	Х		-	-	-	-	-	-	-	-	175
AH-4	1/22/2013	0-1	Х		618	4,680	5,298	<0.400	<0.400	<0.400	8.34	8.34	441
AH-5	1/22/2013	0-1	Х		683	1,080	1,763	<0.400	<0.400	<0.400	6.14	6.14	830
	"	1-1.5	Х		-	-	-	-	-	-	-	-	669
	ıı	2-2.5	Х		-	-	-	-	-	-	-	-	758
	"	3-3.5	Х		-	-	-	-	-	-	-	-	326
	"	4-4.5	Х		-	-	-	-	-	=	-	-	312
AH-6	1/22/2013	0-1	Х		3,260	8,730	11,990	<1.00	11.4	21.2	76.4	109	72.0
	"	1-1.5	Χ		15.9	<50.0	15.9	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	312



RECEIVED District I 1625 N. French Dr., Hobbs, NM 88240

811 S. First St., Artesia, NM 88210 JAN 14 2013 District III

District III

1000 Rio Brazos Road, Azieanmeyoo ARTESIA

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 August 8, 2011

Form C-141

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

,	/		Rele	ase No	tificat	tion and Co	rrective A	ction				
MMIN	1300	23870	(_			OPERA	ΓOR	ĺ	X Initia	ıl Report	☐ Fir	nal Report
Name of Co				vy 154	903	1	KIE MARTINI		<u> </u>	тторого		
Address 33					!		No. (432)688-1					
Facility Nar	ne PDU T	RACT 2				Facility Typ	e BATTERY					
Surface Ow	ner DI M			Mine	eral Own	ner BLM			API No	.30015261	12	
Surface Ow	HEI BLIM				1				711110	. 30013201	12	
					·	ION OF REI		Ţ				
Unit Letter	Section	Township	Range	Feet from	the N	lorth/South Line	Feet from the	East/W	est Line	County		
0	26	19S	29E	330	S	OUTH	1980	EAST		EDDY		
	-	1	La	titude	1	Longitud	e					
				1	NATU	RE OF REL	EASE					
Type of Rele			ΓER		i		Release 35			ecovered 30		
Source of Re					i		our of Occurrence	ce 12/6/1	D6t80nA]	Mour of Disc	overy SA	ME
Was Immedia	ate Notice (Yes [l No □ 1	Vot Requ	ired JIM AMO	Whom? OS W/BLM & N	MOCD	GENER.	AL MAILB	OX	ļ
By Whom? E	BILL HEA	RNE			1		our 12/6/12 9:3					
Was a Water	course Read	hed?			i		lume Impacting t		rcourse.			
	☐ Yes 🛚 No											
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	:	†							
N/A		•	•		1							
1					1							
Describe Cau	ise of Probl	em and Reme	dial Action	Taken.*	:							
					OF PR	OBLEM. SM E	NERGY WILL	RF TH	RNING T	THIS OVER	TO TE	TRA
		ER EVALUA		15 071051		ODEEM: SME	TILKGT WILL	DE TO	idilii (THIS OVER	CIOIL	1101
					1							
Describe Are	a Affected	and Cleanup	Action Tak	en.*								
E .		•			30 BBLS	S WHICH WER	E ALL CONTA	AINED I	NSIDE B	ERM ARE	A.	
		`	- ' ' '		1							
I hereby certi	fy that the i	nformation g	ven above	is true and	complete	to the best of my	knowledge and u	ınderstan	d that purs	uant to NMC	CD rules	and
						ase notifications a						
						by the NMOCD mediate contaminati						
						ort does not reliev						
		ws a n d/or regi										
	VINI	20 11	Andr	TO 00			OIL CON	SERV	ATION	DIVISIO	<u>N</u>	
Signature:	JKM Y		WW	rw)	1							
Signature.	1 00	- 00		- \	!		F			1	1 .	
Printed Name	e:VICKIE	MARTINE 2	Z	V	1		Environmental S			W. /4	, Bras	ABUL BELL
					!		JAN 22 20	113	Signed 1			, Total
Title: ENG	INEER T	ECH II				Approval Dat	e:	E	xpiration l	Date:		
E-mail Address: VMARTINEZ@SM-ENERGY.COM					Conditions of	Approval:				_		
					ì	Remediation per OCD Rule &						
Date: 01/03/				(432)688-	1709	Kemedia	SUBMIT REM	IEDIATI	ON			
Attach Addi	tional Shee	ets If Necess	ary		!	Guidelines.	SAL NO LATER	THAN:		2RP	- 151	1
								012		. 0, 0	,	•
						Februar	13 56, 2	4				

Appendix B

Water Well Data Average Depth to Groundwater (ft) SM ENERGY COMPANY - PARKWAY DELAWARE UNIT TRACT 2 Eddy County, New Mexico

	18	South	:	28 East	t		18 9	South	2	9 East			18 S	outh	3	30 East	
6	5	4 108	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 9	5 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	21 226	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	:		19 9	South	2	9 East			19 S	South	3	30 East	
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8	9 246 265	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	13 123 101	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 90	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	South		28 East	i		20 9	South	2	9 East			20 S	South	3	30 East	
6	5	4	3	2	1	6	5	4	3 91	2	1	6		5 4	3 6	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 29	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24

25

36

33



USGS Well Reports

33 <mark>25</mark>

Geology and Groundwater Conditions in Southern Eddy, County, NM

36

NMOCD - Groundwater Data

Field water level

New Mexico Water and Infrastructure Data System

Tetra Tech Temporary well (TD 180' - Dry Well)



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 Number	POD Code Subbasin	County	Q 64			Sec	Tws	Rng	х	Y	•	-	Water Column
<u>CP 00681</u>		ED	1	1	3	34	198	29E	587230	3609127*			
CP 00703		ED		4	1	36	198	29E	590945	3609441*	225	115	110
<u>CP 00739</u>		ED	3	4	4	35	198	29E	589246	3608217	200	110	90
CP 00741		ED	1	3	2	34	19S	29E	588030	3609533*		60	170
									Aver	age Depth t	o Water	95	feet
										Minimur	n Depth:	60	feet
										Maximur	n Depth:	115	feet

Record Count: 4

PLSS Search:

Section(s): 34-36 Township: 19S Range: 29E

Appendix C

Report Date: January 29, 2013 Work Order: 13012322 Page Number: 1 of 5

Summary Report

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

Project Location: Eddy Co., NM

Project Name: SM Energy/PDU Tract #2

Project Number: 114-6401482

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
319127	AH-1 (0-1')	soil	2013-01-22	00:00	2013-01-23
319128	AH-1 (1-1.5')	soil	2013-01-22	00:00	2013-01-23
319129	AH-2 (0-1')	soil	2013-01-22	00:00	2013-01-23
319130	AH-3 (0-1')	soil	2013-01-22	00:00	2013-01-23
319131	AH-3 (1-1.5')	soil	2013-01-22	00:00	2013-01-23
319132	AH-3 (2-2.5')	soil	2013-01-22	00:00	2013-01-23
319133	AH-3 (3-3.5')	soil	2013-01-22	00:00	2013-01-23
319134	AH-3 (4-4.5')	soil	2013-01-22	00:00	2013-01-23
319135	AH-3 $(5-5.5')$	soil	2013-01-22	00:00	2013-01-23
319136	AH-3 $(6-6.5')$	soil	2013-01-22	00:00	2013-01-23
319137	AH-3 (7-7.5')	soil	2013-01-22	00:00	2013-01-23
319138	AH-3 (8-8.5')	soil	2013-01-22	00:00	2013-01-23
319139	AH-3 (9-9.5')	soil	2013-01-22	00:00	2013-01-23
319140	AH-4 (0-1')	soil	2013-01-22	00:00	2013-01-23
319141	AH-5 (0-1')	soil	2013-01-22	00:00	2013-01-23
319142	AH-5 (1-1.5')	soil	2013-01-22	00:00	2013-01-23
319143	AH-5 (2-2.5')	soil	2013-01-22	00:00	2013-01-23
319144	AH-5 $(3-3.5')$	soil	2013-01-22	00:00	2013-01-23
319145	AH-5 (4-4.5')	soil	2013-01-22	00:00	2013-01-23
319146	AH-6 (0-1')	soil	2013-01-22	00:00	2013-01-23
319147	AH-6 (1-1.5')	soil	2013-01-22	00:00	2013-01-23
319148	AH-1 $(2-2.5)$	soil	2013-01-22	00:00	2013-01-23
319149	AH-1 (3-3.5')	soil	2013-01-22	00:00	2013-01-23

		I	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)
319127 - AH-1 (0-1')	< 0.0200	< 0.0200	< 0.0200	0.521	365	71.9

 $continued \dots$

Report Date: January 29, 2013

Work Order: 13012322

Report Date: January 29, 2013 Work Order: 13012322 Page Number: 2 of 5

$\dots continued$

		F	BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	$(\mathrm{mg}/\mathrm{Kg})$	(mg/Kg)
319129 - AH-2 (0-1')	< 0.100 1	0.875	1.30	3.18	912	265
319130 - AH-3 (0-1')	$<1.00^{-2}$	13.8	< 1.00	90.5	5440	4190
319131 - AH-3 (1-1.5')	$< 0.400^{-3}$	6.32	8.17	36.8	$1590~_{ m Qs}$	3110
319132 - AH-3 (2-2.5')	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
319140 - AH-4 (0-1')	$< 0.400^{-4}$	< 0.400	< 0.400	8.34	4680	618
319141 - AH-5 (0-1')	$< 0.400^{5}$	< 0.400	< 0.400	6.14	1080	683
319146 - AH-6 (0-1')	$<1.00^{-6}$	11.4	21.2	76.4	8730	3260
319147 - AH-6 (1-1.5')	< 0.0200	< 0.0200	< 0.0200	< 0.0200	$< 50.0 _{\mathrm{Qs}}$	15.9

Sample: 319127 - AH-1 (0-1')

Param	Flag	Result	Units	RL
Chloride		236	mg/Kg	4

Sample: 319128 - AH-1 (1-1.5')

Param	Flag	Result	Units	RL
Chloride		245	mg/Kg	4

Sample: 319129 - AH-2 (0-1')

Param	Flag	Result	Units	RL
Chloride		76.9	m mg/Kg	4

Sample: 319130 - AH-3 (0-1')

Param	Flag	Result	Units	RL
Chloride		1260	mg/Kg	4

Sample: 319131 - AH-3 (1-1.5)

Param	Flag	Result	Units	RL
Chloride		692	m mg/Kg	4

¹Dilution due to hydrocarbons.

²Dilution due to hydrocarbons.

 $^{^3{\}rm dilution}$ due to hydrocarbons.

⁴Dilution due to hydrocarbons.

 $^{^5\}mathrm{Dilution}$ due to hydrocarbons.

 $^{^6}$ Dilution due to hydrocarbons.

Report Date: Janu	ary 29, 2013	Work Order: 13012322	Page 1	Number: 3 of 5
Sample: 319132	- AH-3 (2-2.5')			
Param	Flag	Result	Units	RL
Chloride		154	m mg/Kg	4
Sample: 319133	- AH-3 (3-3.5')			
Param	Flag	Result	Units	RL
Chloride	<u> </u>	71.1	mg/Kg	4
Sample: 319134	- AH-3 (4-4.5')			
Param	Flag	Result	Units	RL
Chloride		75.9	mg/Kg	4
Sample: 319135	- AH-3 (5-5.5')			
Param	Flag	Result	Units	RL
Chloride		42.7	mg/Kg	4
Sample: 319136	- AH-3 (6-6.5')			
Param	Flag	Result	Units	RL
Chloride	1105	<20.0	mg/Kg	4
Sample: 319137	- AH-3 (7-7.5')			
Param	Flag	Result	Units	RL
Chloride		123	m mg/Kg	4
Sample: 319138	- AH-3 (8-8.5')			
Param	Flag	Result	Units	RL
Chloride		156	m mg/Kg	4
Sample: 319139	- AH-3 (9-9.5')			
Param	Flag	Result	Units	RL
Chloride		175	mg/Kg	4

Report Date: January 29, 2013	Work Order: 13012322	Page I	Number: 4 of 5
Sample: 319140 - AH-4 (0-1')			
Param Flag	Result	Units	RL
Chloride	441	m mg/Kg	4
Sample: 319141 - AH-5 (0-1')			
Param Flag	Result	Units	RL
Chloride	830	m mg/Kg	4
Sample: 319142 - AH-5 (1-1.5')			
Param Flag	Result	Units	RL
Chloride	669	mg/Kg	4
Sample: 319143 - AH-5 (2-2.5')			
Param Flag	Result	Units	RL
Chloride	758	mg/Kg	4
Sample: 319144 - AH-5 (3-3.5')			
Param Flag	Result	Units	RL
Chloride	326	m mg/Kg	4
Sample: 319145 - AH-5 (4-4.5')			
Param Flag	Result	Units	RL
Chloride	312	m mg/Kg	4
Sample: 319146 - AH-6 (0-1')			
Param Flag	Result	Units	RL
Chloride	72.0	m mg/Kg	4
Sample: 319147 - AH-6 (1-1.5')			
Param Flag	Result	Units	RL
Chloride	312	m mg/Kg	4

Report Date: January 29, 2013 Work Order: 13012322 Page Number: 5 of 5

Sample: 319148 - AH-1 (2-2.5')

Param	Flag	Result	Units	RL
Chloride		672	m mg/Kg	4

Sample: 319149 - AH-1 (3-3.5')

Param	Flag	Result	Units	RL
Chloride		993	mg/Kg	4

PAGE: OF: 3	ANALYSIS REQUEST (Circle or Specify Method No.)	ed Vr Pd Hg Se	TX100	A PA	BTEX 8021E TPH 8015 PH 8270	N N N	RX .	N X X		N N	Ø	X	>>	N N		SAMPLED BY: (Print & Juital) Date: 1-22-13	>	HAND DELIVERED UPS OTHER: TETRA TECH CONTACT PERSON: Results by:	RUSH Charges	Yes No	- 5,000 mg/kg and it
Applying Board to f Chain of Custody Booord	-	TETRA TECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	ersy Aa Jon Hale	SUECT NAME: OM Engray -D DU Trat #2-2 - 2 Mgrill B	IE PRINCE IDENTIFICATION SAMPLE IDENTIFICATION	319127 1/22/13 SN A4-1 (0-1)	(,511-1) 1-44 / /	X	130	X	132 AH-3 (2-2.5')	(3-3	X (5.4-4.5) (5-4.4)	9-9) E-HY N N	Time: 12:45 Reference)	Date: RECEIVED BY: (Signature)	ture) Date: Time:	LABORATORY:	PHONE	SAMPLE CONDITION WHEN RECEIVED: S. 3 REMARKS: A.M. ACARCY Samples it TPH RXC464S - 5,000 Please fill out all copies - Laboratory retains Yellow copy - Return Ordinal copy to Tetra Tech - Project Manager retains Pink copy

Genzene exceeds 10 mg/Kg or BIEX 50 mg/Kg

TETRATECH	Analysis Request of Chain or	hain of Custody Record	Poord	ρĄ	PAGE: ${\mathcal Z}$ OF:	3
TETRA TECH		. 1	5	ANALYSI	IS REQUEST	
1910 N Big Spring St.				Circle or Spe	cify Method No.)	-
Middland, Toylo 1922-3946 Middland 1922 Midd				əę		
STEEMANGER STEEMANGER STEEMANGER STEEMANGER STEEMANGER STEEMANGER STEEMANGER STANGESCONES STA	Midland (432) 682-4	ng Spring St. Texas 79705 59 • Fax (432) 682-3946		S gH dq 1		
STERMANGER:				q AL	SOL	
The Decet Name Process Process	Energy SITEM	عاجاا	PRESERVATIVE METHOD	884 C	L 'Hd 's	
Time Time Time Time Time	01482 SW Passon	- Jud Cill DOUTA	(N/	eA gA services Ag Asservices A	(1i.	
3 X AH - 3 7 - 7 , 5	DATE TIME SARIES SARIES	INMBER OF	ONE DE INO3 ICF	PH 8270 CRA Metals CLP Molatile CLP Semi W		
AH - 3 (9 - 9.5) X X X X X X X X X	1/2/13 X X A H	3)	N COI ><	(4) (2) (3) (4) (4) (5) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Pi	
A H - 2	((8-8.5)	×		R	
A H - 4	AH	9	X		S.	
Att-5 (0-1)	AH	(1)		***	R	
AH - S (2, 2, 5)	AL	(1-0)	R	92	×	
A H - S	- HY				2	
A H - S	HH HH		×		R	
A H - S (4 - 4, 5)		(3-3.5')	×		9	
	H	1	. ×		R	
Date: 1-3	A AH			2		
Lure) Date: Corr Ed I art I	Date: 1-7		Date: 1 2 1	ו⊇ר	1	22-3
Lure) Date: RECEIVED BY: (Signature) Date: Time: Time:	Date:	RECEIVED 61: (Signature)	Date:	712	7. 55~ °74. Time: AIRBILL #:	
RECEIVED BY: (Signature)		RECEIVED BY: (Signature)	Date:	HAND DELIVERED UPS	ОТНЕВ:	
		RECEIVED BY: (Signature)	lime:	TELEGRACIONISCI PERSON:	Hesuits by:	
CITY: STATE: ZIP: DATE: TIME:	STATE: PHONE:				RUSH Charge Authorized:	S
REMARKS:					res	OV
Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tefra Tech - Project Manager retains Pink copy - Accounting received		- Retur	1.	ij.	riano plot marinota	

PROJECT NAME: SM. COMP. COMP. COMP. SM.E. Time: Time	TEMP TECH No. Big Storm Storm No. Big Storm Storm Storm No. Big Storm Stor	Redues	Analysis Request of Chain of Custody Record	PAGE: 3 ANALYSIS REQUEST (Circle or Specify Method No.)	REQUEST S OF: S
SAMPLE DENTIFICATION The Construction of the	SINTE MANGERS STATE AND TO SEE THAT A SAMPLE DESCRIPTION MATRIES OF SEED STATE AND TO SEE THAT A SAMPLE DESCRIPTION MATRIES OF SEED SEED SEED SEED SEED SEED SEED SEE	P	TETRA TECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	CO Or Po Hg Se	SQT,
PROJECT NAME: P. P. P. P. P. P. P. P	PROJECT NAME: P. M. 1 P. M. 4 4.2 - 2.1		TE MANAGER: Hale	DIXT (). As Ba (). Ba sA (). Ba sa ().	.Hq ,enoi
COMP. COMP	California Committee California Committee California Committee California Committee California Committee California Californ		- POV Truct #2 - 2nd Spill BO	dOM 31 (a) A class (b) A class (c) A clas	9608 pec. a (Air) estos)
			SAMPLE IDENTIFICATION SAMPLE IDENTIFICATION SAMPLE IDENTIFICATION SAMPLE IDENTIFICATION	TPH 801 BCRA Met TCLP Vola TCLP Sem TCLP Sem RCI GC.MS Vo	Pest. 808/ Chloride Gamma Sp Alpha Beta PLM (Asba
		*	(1-1,5,1)		又
		V	((2-7 <)		X
Date:	Dute:	>	6 (3-3,5)		×
Date:	Date: 1-2.1.1.1.2.1.2.1.3. Particular		<u></u>		
Date:	Date:				
Date:	Date:				
Date:	Date:				
Date:	Date:				
Date:	Date:				
Date: L X - L S RECEIVED BY; Signature) Date: L Date: </td <td>Date: L C = L3 RECEIVED BY; Signature) Date: C Procession of the contract persons: Date: C Procession of the contract persons: Date: L L L L L L L L L L L L L L L L L L L</td> <td></td> <td></td> <td>2</td> <td></td>	Date: L C = L3 RECEIVED BY; Signature) Date: C Procession of the contract persons: Date: C Procession of the contract persons: Date: L L L L L L L L L L L L L L L L L L L			2	
Date: Date: Pace LyED BY: (Signature) Date: SAMPLE SHIPPED BY: (Circle) AIRBILL #: Time: Date: HAND DELIVERED UPS OTHER: Time: Time: Time: TETRA TECH CONTACT PERSON: Results by: RUSH Charges Authorized: Authorized: Authorized: PHONE: DATE: TIME: TIME: Authorized:	Date: Date: Particular Date: AIRBILL #: Time: Time: Time: BUS OTHER: Date: Time: HAND DELIVERED UPS OTHER: Time: Time: Time: HAND DELIVERED UPS OTHER: RECEIVED BY: (Signature) Time: TETRA TECH CONTACT PERSON: Results by: RUSH Charges PHONE: DATE: TIME: TIME: Yess	Date:	1-23-13 RECEVED BY Signerty CA.	SAMPLED BY: (Print & Initial)	
Particle Particle Particle Particle Date: Particle	Particular Par	Date:	RECEIVED BY: (Signature)	SAMPLE SHIPPED BY: (Circle) FEDEX BUS	AIRBILL #:
RECEIVED BY: (Signature) RECEIVED BY: (Signature) RUSH Charges Authorized: Authorized: PHONE: PHONE: Yes	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	HAND DELIVERED UPS TETRA TECH CONTACT PERSON:	Results by:
ZIP: DATE: TIME: PHONE: DATE:	PHONE: ZIP: TIME: TIME: Yes YES				RUSH Charges Authorized:
	REMARKS:	PHONE	DATE:		
Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.				-	



PAGE: OF: S	ANALYSIS REQUEST	Circle or Specify Method No.)	TX100	AOD, A PA PA S A PA PA S A PA PA S A PA PA PA S A PA	MONE BTEX 8021B PAH 8270 PAH 8270 PCRA Metals	**	8	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	× × ×	\$ \(\)	\\ \tag{\tag{\tau}}	***************************************	8			13.45 SAMPLED BY: (Print & Initial) Date: 1-23-	E SHIPPED BY: (Circle)	DELIVERED ECH CONTACT I	RUSH Charges	
of Custody Becord	20000	St. 05 2) 682-3946		# 2 - 2 mos	HOS HOS ICE HOWBER OF LITTERED (Y							X (S	x	(5)		BY: (Signature) Date:	RECEIVED BY: (Signature) Time	RECEIVED BY: (Signature) Date:	RECEIVED BY: (Signature)	TIME:
Redillest of Chain of		1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	SITE MANAGER:	IOJECT NAME:	COMP: SAMPL.	(1-0) 1-HA N X	1 AH-1 (1-1.5)	1-0/ E-HY	(1-0) E-HY	1 AH-3 (1-1.5)	H AH-3 (2-2.8	AH-3 (3-3.	AH-3 (4-4.	11 AH-3 (5-5.	6-6) S-H+3	Time: 12:45 RECEIVED BY	Date: RECEIVEI	THE PROPERTY OF THE PROPERTY O		PHONE: DATE:
Analysis Ro			9.	PROJECT NO.: PR	LAB I.D. DATE TIME E	319127 122/13 S	128 / 821	152	92	3/	132	33	134	135	<u>ラ</u>	RELINQUISHED BY: (Signature)	RELINQUISHED BY: (Signature)	RELINQUISHED BY: (Signature)	RECEIVING LABORATORY: ADDRESS:	CONTACT: SAMPLE CONDITION WHEN RECEIVED:

AH Midlach all Benzene exceeds 10 mg/Kg or BTEX SO mg/Kg

Analysis Regulest	U	D	C	<u>d</u>		of Chain of Clietody Bacord		0	2	7						α.	PAGE:		N		OF:	1	M
	2	2	Σ			5	S	ן נ	5	5				ani angananganan	A.	IALYS	ANALYSIS REQUEST	o i	ST				
		•												9	ircle	or Sp	(Circle or Specify Method No.)	Meth	pou	ĝ		ľ	dessessibleresses
					1910 N. E Midland, (432) 682-4(1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946					(Ext. to C35)		Ct Pb Hg Se								Sa		
7	76.00				SITE MANAGER:	ANAGER: Hale	NERS	Ĭ.	RESERVATI	PRESERVATIVE METHOD	3001XT										IT ,Hq ,er		
PROJECT NO.: 114-6401	0:: 040/482	F C	PROJE SYSOLE	PROJECT NAME:	\ >	15		[N/			MOD,		******	se	eampio		809	R	c,				
LAB I.D. DATE	E TIME	XIRTAM	COMP	BARÐ	ALLEX TREET PROPERTY AND ALLEY AND A	Eddy Co MM SAMPLE IDENTIFICATION	NUMBER OF	нсг ног	ICE HNO3	NONE	arsoa хэта эгоа нчт	07S8 HA9		TCLP Volatile	TCLP Semi /	GC,MS Vol. 8	PCB's 8080/	Pest. 808/60 Chloride	Gamma Spe	Alpha Beta (A	PLM (Asbest		
137 Vay		S		X	AH -3	(7-7.3)			×		5							3	Electrical Control of the Control of				
86		_		1	AH -3	(8-8.5)	August		\times									Ŗ					
66.1				_	AH-3	(9-9.5)	e de la constitución de la const		~				likisia sasinii amatomini					2					
22				_	ヤーセゼ	(1-0)			<u>×</u>		X X	5						8					
£		***************************************		_	AH-S	(0-1)			<u>×</u>		\$ \$	*	Marini de de la companio de la comp					8	900-0				
742		***************************************			A-H-S	(1-1,5)	gantife*		×				**************************************				***************************************	2	40000				
2					5- 24	(2,2.5)			<u>×</u>									Ŝ					
**					S-HY	(3-3,5)			<u>×</u>									بج					
25		Marketon Special Control of the Cont			AH - S	(4-4.5)	, populario		. ×			earchoch-enankein/airt					***************************************	\$	2000				
77		7		<u> </u>	AH-6	(120)					2	- 8-						13	100 to 10				
RELINQUISHED BY: (Signature)	pature)	uguardin .		Date: Time:	" (2.4C)	RECEIVES BY (Signature)	вуром выпортинент польтору по	jā ř	Date: 1 4G	7.07	4	AS Y	WAPLED Sm 61	ED BY: (P.	SAMPLED BY: (Print & Initial	iftial)		1.5	1 %	Date: Time:	- in in		200
RELINQUISHED BY: (Signature)	nature)			Date:		RECEIVED #Y: (3/gnature)		D.	Date:		OTHER PROPERTY.	SAI	APLE S	SAMPLE SHIPPED BY:) BY: (((Circle)				AIRBILL #:	T #;		
RELINQUISHED BY: (Signature)	nature)			Date:	Se service de la company de la	RECEIVED BY: (Signature)		De.	nme; Date:	Motorionementalistation	total and a second a second and	- =1	HAND D	HAND DELIVERED	9	UPS	Wickinger	**************************************)	OTHER:		***************************************	
RECEIVING LABORATORY:	*	THE STREET STREET		Time:	The state of the s	RECEIVED BY: (Signature)	маниринали в в в в в в в в в в в в в в в в в в в	Til	Time:	WOOD STATE OF THE PARTY OF THE			RA TE	0H 00	TACT	TETRA TECH CONTACT PERSON:	ż			<u>u_</u>	Results by:	py:	
ADDRESS: CITY: CONTACT:	STATE		E	PHONE	ZIP:		TIME	ខ្ពុន៍ន៍				ma eo i como sido distribuido distrib								14.4	USH C Luthoriz Yes	RUSH Charges Authorized: Yes	se No
SAMPLE CONDITION WHEN RECEIVED:	HEN RECEIVED	::	(Average and Average and Avera	allow Colombia Colombia	REMARKS:		est communication property and the state of	ordistriction of the commence			and the second s											notativing bismon	
Piea	se fill out a	II cop	sei	- Labor	atory retains Y	 Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy	to Tetra Tec	4 4 - 4	roject	Manag	er retai	ns Pi	nk co	- 8	Acco	Suntin	- Accounting receives Gold copy.	eives	GO S	oo pi	W.C.V.	000000000000000000000000000000000000000	



TETRATECH MIGHTAL TECH MIGHT	しつつつ				- 10 M M M M M M M M M M M M M M M M M M			Winnesswerkfahlowenencockhammen	OCCUPATION OF THE PROPERTY OF THE PERSON		PHINACOCENE STREET, ST	Carried and a second se	Children (Children and Children	With the property of the party	Contractions
TET RATECH 1910 N. Big Spring St. 1910 N							>			, circ	NALYSI	S REQU	EST		
PROCEST MANAGER SAMPLE FOR THE MANAGER SAMPLE			1910 N. Big Midland, Tev (432) 682-4559	Spring St. (as 79705 Fax (432) 682-3946				6 (Ext. to C35)			5				
SAMPLE IDENTIFICATION	1 1	ROJECTI	H \	PA Hale		PRESENT MARKET M	HOD								
		GARB	***	y Co N M EIDENTIFICATION		EONH		aros Hat	RCRA Metals	TCLP Semi V	GC.MS Vol. 8	Pest. 808/608	Gamma Spec		
	1/22/3		-	1-1.5')				Ž.				7			
	18) 9-44	2-7.5)											
Date:	->		1961	M				***************************************							
Date:			TO COMPANY TO THE PROPERTY OF												
Date: L.															
Date:								ACCOCIONATA SESSO							
Date:															
Date: L2x L3 RECEIVED BY: Signature) Date: Dat															
Date: L S - L S RECEIVED BY; Signeture Time: A S											_				
Date: LAST LANGE Date: Control of the	1						7								
Date: Date: Date: Date: Date: AIRBILL #: Time: Date: Time: HAND DELIVERED UPS OTHER: Time: Time: Time: Terra Tech Contact Person: Results by: RECEIVED BY: (Signature) Time: Terra Tech Contact Person: Results by: PHONE: ZIP: Time: Time: Results by: PHONE: ZIP: Time: Yes	IQUISHED BY. (Signefure)		12/2	RECENTED BY: Signeture)		Date:			AMPLED E	V: (Print 8	Initial)	1	Ĭ	rte:	200
Date: Date: FECEIVED BY: (Signature) Date: Time: TETRA TECH CONTACT PERSON: Results by: PHONE: ZIP: TIME: TIME: Results by: PHONE: ZIP: TIME: TIME: Pessults by:	IQUISHED BY: (Signature)		Date:	RECEIVED BY: (Signature)		Date:			SAMPLE SH FEDEX	IIPPED BY	(Circle)		AIRE	#TT#	
RECEIVED BY: (Signature) RECEIVED BY: (Signature) RUSH Charges RUSH Charges Authorized: Yes Ye	QUISHED BY: (Signature)		Date:	RECEIVED BY: (Signature)		Date:			HAND DEI	LIVERED	UPS	and the state of t	OTH	ER: Results by	Mary mary mary mary mary mary mary mary m
Authorities	WING LABORATORY:	Acido de la companya del companya de la companya de la companya del companya de la companya del la companya del la companya de		RECEIVED BY: (Signature)		Transformation and a second								, John Cha	
	ACT:	PHONE	ZIP:	DATE:	TIME									Authorized Yes	No Sees
	SAMPLE CONDITION WHEN RECEIVED:	Mercantin translation or occupants	REMARKS:	AND MANUAL MANUA	Маке в применя в	оосили от от технология в техно	OPPONY/SERVICE CONTRACTOR CONTRAC	***************************************			MODERANDANIANA	modelnancococinentachapaseucen			

