

April 19, 2010

Mike Bratcher NMOCD District II 1301 W. Grand Ave. Artesia, New Mexico 88210

Re: Closure Request for the OXY USA, Inc., Lost Tank 33 Federal #10 Well, Unit Letter A, Section 33, Township 21 South, Range 31 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. was contacted by Pogo Producing Company (Now operated by OXY USA, Inc.), to assess a spill at the Lost Tank 33 Federal #10 well site located in Unit Letter A. Section 33, Township 21 South, Range 31 East, Eddy County, New Mexico (Site).

Background

According to the New Mexico Oil Conservation Division (OCD) Form C-141 (Initial) the spill occurred on January 27, 2008, from a flow line leak. An unknown quantity of oil and produced water was released, with 310 barrels of fluid recovered with a vacuum truck. A copy of the State of New Mexico C-141 (Initial) is included in Appendix A. The Site is shown on Figure 1.

Groundwater

According to Ground Water Report 3, "Geology and Ground-Water Resources of Eddy County, New Mexico", there are no water wells in Township 21 South, Range 31 East. The closest water well was listed in the New Mexico Office of the State Engineer, WATERS database in Section 16, T-21-S, R-31-E, with a reported depth to water of 630' bgs. The New Mexico Tech WAIDS database lists one well in Section 18 with a reported depth to water of 170'. Copies of the water level data are enclosed in Appendix B.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (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.

Assessment and Results

Auger Hole Sampling

Prior to Tetra Tech's inspection of the site, visually impacted soils had been worked in place. On January 28, 2008, Highlander personnel were onsite to collect soil samples from the spill area. The spill area measured approximately 180' long at a width varying from 40' to 85'. A total of five (5) auger holes (AH-1, AH-2, AH-3, AH-4 and AH-5) were installed using a stainless steel hand auger to assess the impacted soils. Samples were analyzed for TPH analysis by EPA method 8015 modified and chloride by EPA method 300.0. Selected samples were analyzed for BTEX by EPA Method 8021B. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix B. The auger hole locations are shown on Figure 2. The results of the sampling are summarized in Table 1.

Referring to Table 1, TPH concentrations exceeded the RRAL in AH-1 to a depth of 7.0', AH-4 to a depth of 3.0' and AH-5 to a depth of 7.0' below surface. In addition, benzene and the total BTEX concentrations exceeded the RRAL in AH-4 to a depth of 3.0' and declined below the reporting limit at 4'-5' below surface. AH-5 also showed total BTEX exceeding the RRAL to a depth of 7.0' below surface which declined to below the RRAL at 8'-9' below surface. Chloride concentrations were below 100 mg/kg in all samples except AH-3 (0-1') AH-4 (0-1') and AH-5. The deepest chloride impact was encountered in AH-5 with chloride concentrations decreasing from 11,000 mg/kg at 0-1' to 1,520 mg/kg at 8'-9' below surface.

Initial Excavation and Sampling

Based upon the initial sampling results, the spill area was excavated to depths ranging from 1.0'-7.0' below surface. The excavated soil was transported to proper disposal. On April 29, 2008, the excavation was segregated into 7 areas and soil samples were collected to evaluate the bottom of the excavations. Referring to Table 2, TPH and BTEX concentrations exceeded the RRAL to depths of 1.0' to 4.5' in auger holes AH-1, AH-2, AH-3, AH-4 and AH-6. Additionally, chloride concentrations were not defined in AH-2 and AH-6. The sample locations and excavation depths are shown on Figure 3. The results of the sampling are summarized in Table 2.

Borehole Installation

On May 20, 2008, boreholes (BH-1 and BH-2) were installed in the area of AH-2 and AH-6 to define the vertical extent of chloride impact. BH-1, installed at AH-2, showed increasing chloride concentrations to 30'-31' (15,800 mg/kg), which then declined to 595 mg/kg at 50'-51'. BH-2 was installed in the vicinity of AH-6 and did not



show any elevated chloride concentrations from 15' to the total depth of the borehole. The borehole samples are summarized in Table 2.

As discussed in a meeting with the NMOCD in Artesia, additional boreholes (BH-3, BH-4 and BH-5) were installed in the vicinity of Area 2 (BH-1) in order to define the horizontal north and south extents. The locations of the boreholes are shown on Figure 4. BH-3 showed elevated chloride impact to 30'-31' below excavation bottom. BH-4, further north did not have any chloride concentrations above 200 mg/kg. BH-5 to the south of BH-1 did not have any chloride concentrations above 200 mg/kg with the exception of 15'-16' (458 mg/kg).

Implemented Work Plan

Based upon the results, it appeared the deep impact in the vicinity of BH-1 (AH-2) is confined to the edge of the north excavation and confined to the east (BH-1) and west (AH-4). As discussed with the NMOCD in Artesia, based on the sandy lithology, this area was excavated to a depth of 20.0'. The excavation was backfilled with clean material up to approximately 4.0' below surface and a 40 mil liner was installed to cap the remaining chloride impact in the subsurface soils.

The remainder of the site was excavated to depths ranging from 1' below excavation bottom to 8' below excavation bottom to remove the remaining impacted soil. The excavation depths are shown on Figure 4. The excavated soils were hauled offsite for disposal.

Based upon the remedial activities are performed, closure of this site is requested. If you require any additional information or have any questions or comments concerning the site, please call at (432) 682-4559.

TETRA TECH, INC.

Tim Reed, P.G.

Sr. Project Manager

Rick Passmore - Glenn Springs

TABLES

Table 1
OXY USA
Lost Tank 33 Federal #10
Eddy County, New Mexico

Sample	Date	Sample		ΓPH (mg/kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Sampled	Depth (ft)	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	1/28/2008	(0-1')	87.7	2360	2,448	_	-	-	-	<100
	1/28/2008	(2-3')	155	2680	2,835	-	-	••	-	<100
	1/28/2008	(4-5')	556	4660	5,216	-	-	-	-	<100
	1/28/2008	(6-7')	718	7290	8,008	< 0.100	0.41	1.27	9.50	<100
	1/28/2008	(8-9')	194	1410	1,604	-	_	-	-	<100
AH-2	1/28/2008	(0-1')	<1.00	65.8	65.8	-	-	-	-	<100
	1/28/2008	(2-3')	<1.00	<50.0°	<50.0	-	_	-	~	<100
	1/28/2008	(4-5')	<1.00	<50.0	<50.0	-	-	-	~	<100
AH-3	1/28/2008	(0-1')	1.12	<50.0	1.12	_		_		3,450
	1/28/2008	(2-3')	<1.00	<50.0	<50.0		_	-	_	<100
	1/28/2008	(4-5')	<1.00	<50.0	<50.0	-	-	-	-	<100
AH-4	1/28/2008	(0-1')	3800	10300	14,100	-	-	-	_	860
	1/28/2008	(2-3')	4500	16300	20,100	8.20	78.6	39.4	167	<100
	1/28/2008	(4-5')	2.43	<50.0	2.43	<0.0100	<0.0100	<0.0100	< 0.0100	<100
AH-5	1/28/2008	(0-1')	831	11000	11,831	_	_	_	_	11,000
	1/28/2008	(2-3')	4060	4740	8,800	1.64	25.6	15.3	65.0	10,700
	1/28/2008	(4-5')	1910	4590	6,500		-	-	-	8,650
······································	1/28/2008	(6-7')	1440	8190	9,630	0.552	27.1	20.6	90.5	3,990
	1/28/2008	(8-9')	<50.0	24.7	24.7	< 0.005	0.111	0.0642	0.184	1,520
		A								

(-) not analyzed

Table 2
OXY USA
Lost Tank 33 Federal #10
Eddy County, New Mexico

Sample	Soils	Status	Date	Excavated	Sample	٦	PH (mg/kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Insitu	Removed	Sampled	Depth (ft)	Depth (ft)	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	X	4.14	4/29/2008	3' to 5'	.0-1'	4240	1150	5,390	4-7-4		a Reference	N. 4. V - 3. V - 3.	6,650
	X				2-2.5'	<50.0	<5.0	<50	rani, e				5,860
	X				4-4.5'					-		•	9,990
	X	The Company of the Co			6-6.5'	- 4	•	•			-		5,660
	X				8-8.5'	_	-	<u>-</u>			-		479
	X				9-9.5'	-	-	-	-		-		621
AH-2	X		4/29/2008	3' to 5'	0-1	4,300	4,060	8,360	12.1	52.6	22.8	73.8	6,400
	_ X	, ,		1,4	2-2.5'	151	64.4	215					16,500
	Х				4-4.5'		-		-				10,500
	_ X				6-6.5			-					9,800
	X				8-8.5	- 20 T	_			•		4	22,600
	X				10'	30 · F							21,800
	X		,	· · · · · · · · · · · · · · · · · · ·	a sira			,					20,000
	X				13'		_		· ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·		18,500
(BH-1)	X		5/20/2008		15-16		-	_			-		8,060
	X				20-21		_	-	e e				8,950
	X				25-26	-					-	-	13,600
	X				30-31	-							15,800
	X				40-41	-					-		4,940
	X				50-51	_	-	-	-		-	~	595
411.2	X - X		4/30/2008	3 to 5	. 021	100 T 200 T	9 2 500	/ 10 PAC */	1.66	20.4	24.9	87.8	3,200
AH-3			4/30/2008	25-10/3/8/2017		7,300	3,500	10,800			24.2		
	X	}			2-2.5'	<50.0	2.93	2.93	-		-	-	3,930 1,080
	X X				4-4.5'	-	- '	-	-		-		<100
	^				6-6.5'	-	-	-	-	-	-		<100
					<u> </u>	L							J

(-) not analyzed

Excavation Depths

40 mil liner installed

Table 2
OXY USA
Lost Tank 33 Federal #10
Eddy County, New Mexico

Sample	Soils	Status	Date	Excavated	Sample		TPH (mg/kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Insitu	Removed	Sampled	Depth (ft)	Depth (ft)	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-4	X	1 3 1 2 2 2 2 3	4/30/2008	3' to 5'	0-1' 3	5,630	2,440	8,070		. 1 ₃ =			· <100 · · ·
	X	\$ 12 8 \$ 18 E.	\$ 1 	e e e e e e e e e e e e e e e e e e e	2-2.5'	9100	3,600	12,700	• •	.			<100
	X				4-4.5'	<50.0	5.61	5.61	-	_	-	-	<100
	X				6-6.5'	-	-	-	-	-	-	-	<100
AH-5	X		4/30/2008	1.0'	0-1'	2,010	359	2,369		-	-	-	3,390
	X				2-2.5'	· -	-	-	-	-	_	-	<100
	X				4-4.5'	_	-	-	_	-	-	-	<100
ÁH-6	X		4/30/2008	3' to 4'	0-1'	5,270	1,600	6,870					6,820
95g, 55	X	-4	1 ** 2 * * * * * * * * * * * * * * * * *		2-2.5	11,800	5,330	17,130	3.24	6.15	33.6	113	11,100
e je s	Χ				4-4.5'	15,400	1,680	17,080	1 1	* *	<u>-</u>		7,180
	X				6-6.5	<50	1.61	1.61	cera		ف مراج د د	rzie z życe	7,240
	X			7. 7.	8-8.5	<u>.</u> -	· -,			1-	₹	•	8,630
	X				10-10.5'	, 1 <u>4</u> (2)		- 1				<u></u>	16,600
(BH-2)	X		5/20/2008		15-16	-	-	-		-	-	-	<100
	X				20-21	-	_	-	-	-	-		<100
	X		<u> </u>		25-26	-	-	-		-	-	-	113
AH-7	X		5/1/2008	bottom	6 to 7'	80.2	5.34	86	-	-	-	-	<100

(-) not analyzed

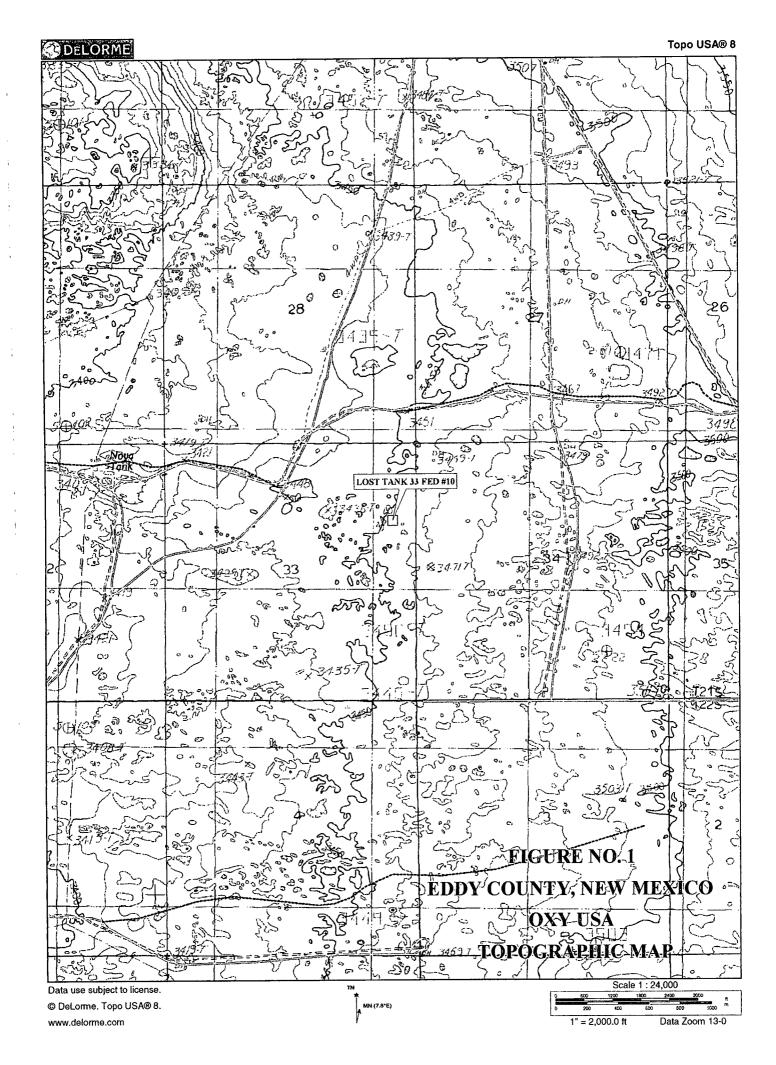
Excavation Depths

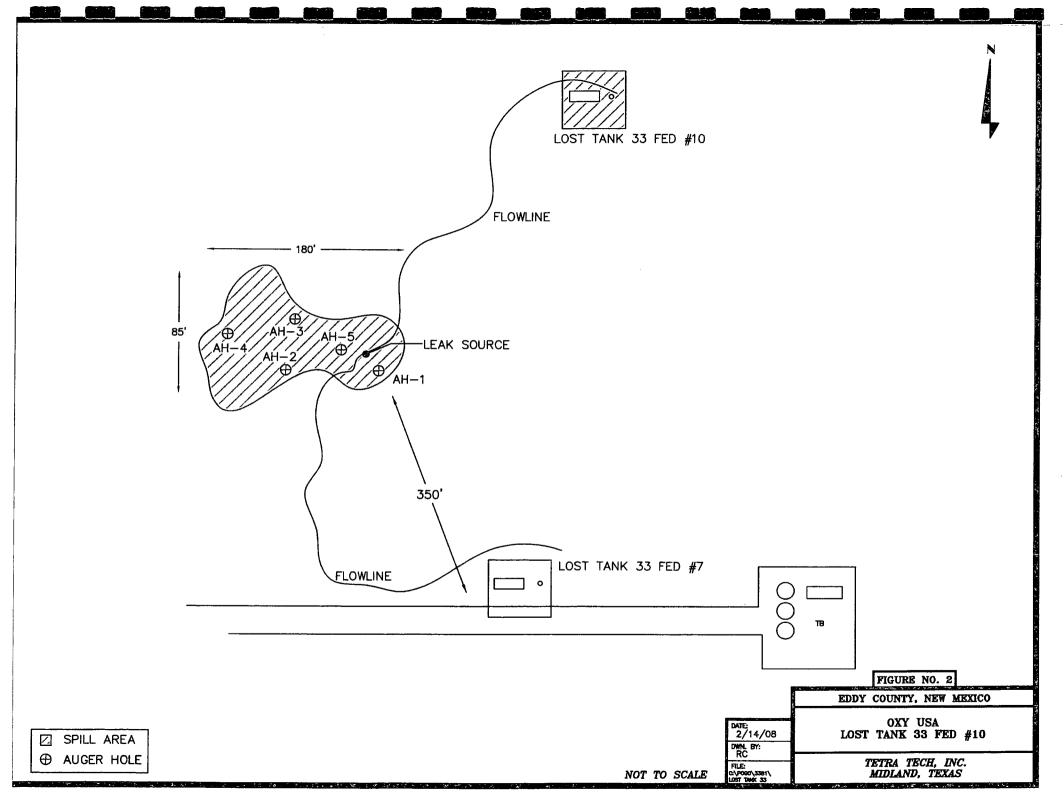
Table 3 **OXY USA** Lost Tank 33 Federal #10 **Eddy County, New Mexico**

Sample	Soils	Status	Date	Excavated	Sample	٦	PH (mg/kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Insitu	Removed	Sampled	Depth (ft)	Depth (ft)	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
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	Х				30-31		-	-	_	-	-	-	2080
	X				30-35	-	-			-	_	-	553
BH-4	X		3/16/2009	surface	5-6	_	-			-	-	-	<200
	X				10-11	_	_		-	-	-	-	<200
	X				15-16	_	-	_	-	_	-	-	<200
	X				20-21	-	-		-	-	-	•	<200
	X				30-31	-	-	-	<u>-</u>	-	-	-	<200
BH-5	Х		3/16/2009	surface	5-6		_	-	_	<u>-</u>	_	<u>.</u>	<200
	X				10-11	_		-	-	-	-	-	<200
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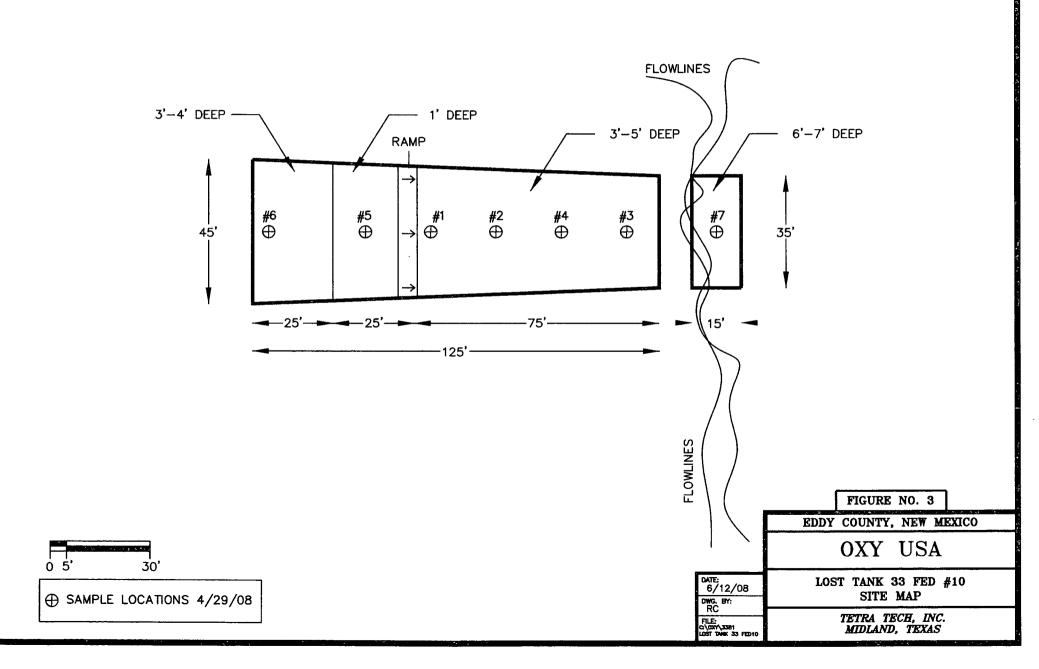
(-) not analyzed Excavation Depths

FIGURES

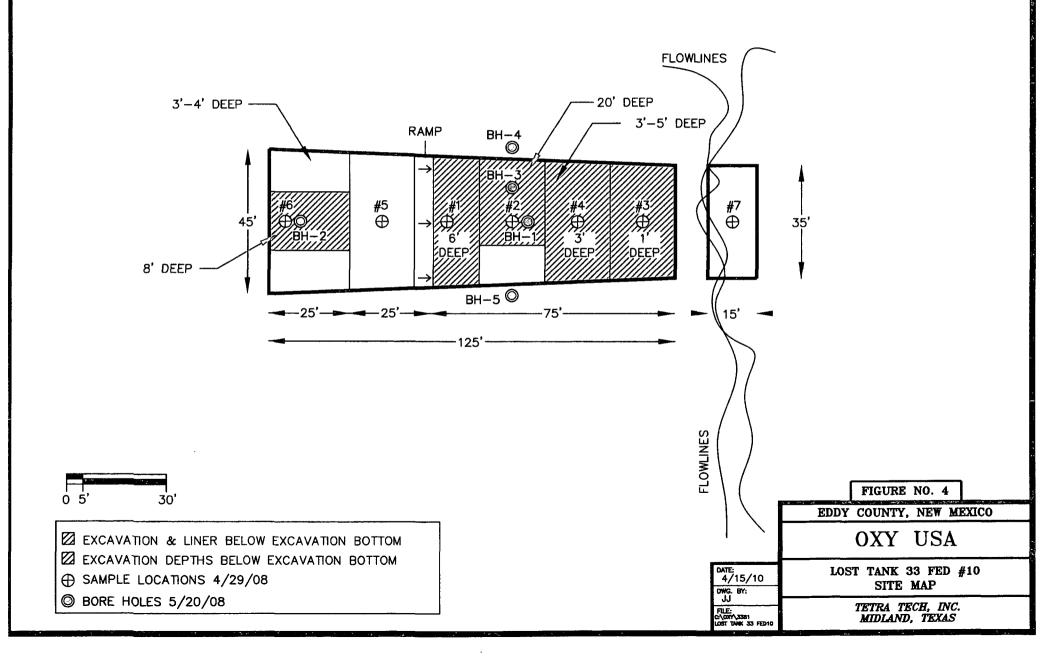












APPENDIX A

<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

State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-141

Revised October 10, 2003

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Unit Letter A	Section 33	Township 21S	Range 31E	Feet from the 660'	North	n/South Line 1	Feet from the 330'	East/W	est Line	County Eddy		
		h	La	titude		Longitud	le					
				NAT	TURE	OF REL	EASE					
Type of Rele							Release unkown			Recovered:		
Source of Re	lease: Flow	vline leak				Date and F 01-26-08	lour of Occurrenc		Date and 01-27-08	Hour of Dis	covery	
Was Immedia	ate Notice (Given?				If YES, To	Whom?		01-27-08			
☐ Yes ☐ No ☐ Not Require					equired	Mike Brate	cher (Voice Mail).	, OCD an	d Jim Am	os of BLM		
By Whom?						Date and I	lour					
Jody Bennett Was a Watercourse Reached?						01-27-08	olume Impacting t	he Water	course			
was a water	comse Reac] Yes ⊠] No		11 163, V	nume impacting t	ine water	course.			
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Flowline leal	ced to pastu	re land. A va	cuum truc	k was utilized to i						proved by the	ie NM(OCD was
implemented	. Impacted	soils were exc	cavated an	nd hauled to dispo	sal. Th	e site was bac	kfilled with clean	material.				
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Printed Name	e: Tim Ree	d, P.G				Approved by	District Superviso	or: 				
Title: Senior	Project Ma	nager				Approval Dat	e:	Expiration Date:				
	-											
E-mail Address: tim.reed@tetratech.com					Conditions of Approval: Attached							

Date: 4-14-10

Phone: 432-557-4680

^{*} Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data Average Depth to Groundwater (ft) OXY - Lost Tank 33 #10, Eddy County, New Mexico

	20 5	South	3	1 East			20 5	South	3	2 East			20 5	South	3	3 East	
	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
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	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
	8	9	10	11	12	7	8	9	10	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
9	20	21	22	23	24	19	20	630 21	22	23	24	19	20	21	22	23	24
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1	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
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	22 :	South	3	30 East	<u>.</u>		22 :	South	3	31 East			22 9	South	3	32 East	
	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
	8	9	10	11	12	7	8	9	10	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
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⁸⁸ New Mexico State Engineers Well Reports

¹⁰⁵ USGS Well Reports

⁹⁰ Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)

³⁴ NMOCD - Groundwater Data

New Mexico Office of the State Engineer POD Reports and Downloads

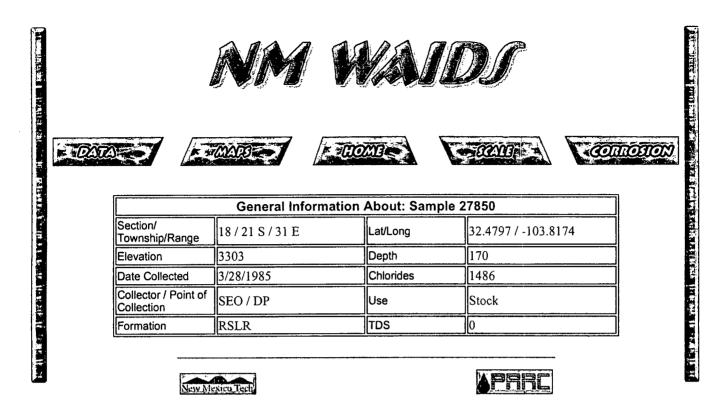
Township: 21S	Range: 31E Sections:
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Owner Name: (First)	(Last) ONon-Domestic ODomestic
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AVERAGE DEPTH OF WATER REPORT 03/17/2008

 Bsn
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 Sec
 Zone
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 21S
 31E
 16
 1
 630
 630
 630

Record Count: 1



APPENDIX C

Work Order: 9032008 Oxy/Lost Tank 33 Fed. #10 Page Number: 1 of 3 Eddy Co., NM

Summary Report

Ike Tavarez Tetra Tech

1910 N. Big Spring Street Midland, TX 79705

Report Date: March 25, 2009

Work Order: 9032008

Project Location: Eddy Co., NM

Project Name:

Oxy/Lost Tank 33 Fed. #10

Project Number: 3381

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
190774	BH-3 (5-6)	soil	2009-03-16	00:00	2009-03-20
190775	BH-3 (10-11)	soil	2009-03-16	00:00	2009-03-20
190776	BH-3 (15-16)	soil	2009-03-16	00:00	2009-03-20
190777	BH-3 (20-21)	soil	2009-03-16	00:00	2009-03-20
190778	BH-3 (30-31)	soil	2009-03-16	00:00	2009-03-20
190779	BH-3 (35-36)	soil	2009-03-16	00:00	2009-03-20
190780	BH-4 (5-6)	soil	2009-03-16	00:00	2009-03-20
190781	BH-4 (10-11)	soil	2009-03-16	00:00	2009-03-20
190782	BH-4 (15-16)	soil	2009-03-16	00:00	2009-03-20
190783	BH-4 (20-21)	soil	2009-03-16	00:00	2009-03-20
190784	BH-5 (5-6)	soil	2009-03-16	00:00	2009-03-20
190785	BH-5 (10-11)	soil	2009-03-16	00:00	2009-03-20
190786	BH-5 (15-16)	soil	2009-03-16	00:00	2009-03-20
190787	BH-5 (20-21)	soil	2009-03-16	00:00	2009-03-20

Sample: 190774 - BH-3 (5-6)

Param	Flag	Result	Units	RL
Chloride		785	mg/Kg	4.00

Sample: 190775 - BH-3 (10-11)

Param	Flag	Result	Units	RL
Chloride		16400	mg/Kg	4.00

Report Date: March 25, 2009 3381		Work Order: 9032008 Oxy/Lost Tank 33 Fed. #10		Page Number: 2 of 3 Eddy Co., NM
Sample: 190776 - BH-	3 (15-16)			
Param	Flag	Result	Units	RL
Chloride		6880	mg/Kg	4.00
Sample: 190777 - BH-	3 (20-21)			
Param	\mathbf{Flag}	Result	Units	RL
Chloride		6480	mg/Kg	4.00
Sample: 190778 - BH-	3 (30-31)			
Param	Flag	Result	Units	RL
Chloride		2080	mg/Kg	4.00
Sample: 190779 - BH-	3 (35-36)			
Param	\mathbf{Flag}	Result	Units	RL
Chloride		553	mg/Kg	4.00
Sample: 190780 - BH-	4 (5-6)			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 190781 - BH-	4 (10-11)			
Param	\mathbf{Flag}	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 190782 - BH-	4 (15-16)			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 190783 - BH-	4 (20-21)	•		
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Report Date: Marc	ch 25, 2009	Work Order: 9032008 Oxy/Lost Tank 33 Fed. #10		Page Number: 3 of 3 Eddy Co., NM
Sample: 190784	- BH-5 (5-6)			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 190785	- BH-5 (10-11)			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 190786	- BH-5 (15-16)			
Param	Flag	Result	Units	RL
Chloride		458	mg/Kg	4.00
Sample: 190787	- BH-5 (20-21)			
Param	\mathbf{Flag}	Result	Units	RL
Chloride		<200	mg/Kg	4.00



6701 Aherdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

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Certifications

WBENC: 237019 HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock:

T104704219-08-TX

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ike Tavarez Tetra Tech

1910 N. Big Spring Street

Midland, TX, 79705

Report Date: March 23, 2009

Work Order: 9032008

Project Location:

Eddy Co., NM

Project Name:

Oxy/Lost Tank 33 Fed. #10

Project Number:

3381

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

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	Received
190774	BH-3 (5-6)	soil	2009-03-16	00:00	2009-03-20
190775	BH-3 (10-11)	soil	2009-03-16	00:00	2009-03-20
190776	BH-3 (15-16)	soil	2009-03-16	00:00	2009-03-20
190777	BH-3 (20-21)	soil	2009-03-16	00:00	2009-03-20
190778	BH-3 (30-31)	soil	2009-03-16	00:00	2009-03-20
190779	BH-3 (35-36)	soil	2009-03-16	00:00	2009-03-20
190780	BH-4 (5-6)	soil	2009-03-16	00:00	2009-03-20
190781	BH-4 (10-11)	soil	2009-03-16	00:00	2009-03-20
190782	BH-4 (15-16)	soil	2009-03-16	00:00	2009-03-20
190783	BH-4 (20-21)	soil	2009-03-16	00:00	2009-03-20

			Date	${f Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
190784	BH-5 (5-6)	soil	2009-03-16	00:00	2009-03-20
190785	BH-5 (10-11)	soil	2009-03-16	00:00	2009-03-20
190786	BH-5 (15-16)	soil	2009-03-16	00:00	2009-03-20
190787	BH-5 (20-21)	soil	2009-03-16	00:00	2009-03-20

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 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Oxy/Lost Tank 33 Fed. #10 were received by TraceAnalysis, Inc. on 2009-03-20 and assigned to work order 9032008. Samples for work order 9032008 were received intact at a temperature of 3.6 deg. C.

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

		Prep	Prep	$_{ m QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	49440	2009-03-23 at 10:16	57879	2009-03-23 at 14:17
Chloride (Titration)	SM 4500-Cl B	49441	2009-03-23 at 10:17	57880	2009-03-23 at 14:18

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 9032008 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.

3381

Work Order: 9032008 Oxy/Lost Tank 33 Fed. #10 Page Number: 4 of 10 Eddy Co., NM

Analytical Report

Sample: 190774 - BH-3 (5-6)

Laboratory:

Midland

Chloride (Titration) Analysis:

QC Batch: 57879 Prep Batch: 49440 Analytical Method:

Sample Preparation:

Date Analyzed:

SM 4500-Cl B

2009-03-23 2009-03-23 Prep Method: N/A Analyzed By: AR.

Prepared By: AR

RL

Parameter Flag Chloride

Result 785

Units mg/Kg Dilution 50

RL4.00

Sample: 190775 - BH-3 (10-11)

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch:

57879 Prep Batch: 49440 Analytical Method:

Date Analyzed:

SM 4500-Cl B 2009-03-23

Prep Method: N/A

Analyzed By: AR Prepared By: AR

RL

Result

16400

Parameter Chloride

Flag

Sample Preparation:

2009-03-23

Units

mg/Kg

Dilution

50

RL

4.00

Sample: 190776 - BH-3 (15-16)

Laboratory:

Midland

57879

Analysis: QC Batch:

Chloride (Titration)

Analytical Method: Date Analyzed:

SM 4500-Cl B 2009-03-23

Prep Method: N/A Analyzed By: AR

Prep Batch: 49440

Sample Preparation:

2009-03-23

Prepared By: AR

RL

Parameter Flag Chloride

Result 6880

Units mg/Kg Dilution 50

RL4.00

Sample: 190777 - BH-3 (20-21)

Laboratory:

Midland

Analysis: QC Batch: 57879 Prep Batch: 49440

Chloride (Titration) Analytical Method: Date Analyzed:

SM 4500-Cl B 2009-03-23 Sample Preparation: 2009-03-23

Prep Method: N/A Analyzed By:

ARPrepared By: AR

Work Order: 9032008 3381 Oxy/Lost Tank 33 Fed. #10 Page Number: 5 of 10 Eddy Co., NM

AR

AR

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		6480	mg/Kg	50	4.00

Sample: 190778 - BH-3 (30-31)

Laboratory:

Prep Batch: 49440

Midland

Chloride (Titration) Analysis: QC Batch: 57879

Analytical Method: Date Analyzed: Sample Preparation: 2009-03-23

SM 4500-Cl B Prep Method: N/A 2009-03-23 Analyzed By:

RLDilution RLParameter Flag Result Units 4.0050 Chloride 2080 mg/Kg

Sample: 190779 - BH-3 (35-36)

Midland Laboratory:

Prep Batch: 49440

Analysis: Chloride (Titration) QC Batch: 57879

Analytical Method: SM 4500-Cl B Date Analyzed: 2009-03-23 Sample Preparation: 2009-03-23

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

Prepared By:

RLDilution RLParameter Flag Result. Units 553 mg/Kg 50 4.00Chloride

Sample: 190780 - BH-4 (5-6)

Laboratory:

Midland

Chloride (Titration) Analysis: QC Batch: 57879 Prep Batch: 49440

Analytical Method: SM 4500-Cl B Date Analyzed: 2009-03-23 Sample Preparation: 2009-03-23

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

RLFlag Result Units Dilution RLParameter 4.00 <200 Chloride mg/Kg 50

Sample: 190781 - BH-4 (10-11)

Laboratory:

Midland

Chloride (Titration) Analysis: QC Batch: 57879 Prep Batch: 49440

Analytical Method: SM 4500-Cl B Date Analyzed: 2009-03-23 Sample Preparation: 2009-03-23

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

Work Order: 9032008

Oxy/Lost Tank 33 Fed. #10

Page Number: 6 of 10 Eddy Co., NM

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	${ m mg/Kg}$	50	4.00

Sample: 190782 - BH-4 (15-16)

Laboratory: Midland

3381

Analysis: Chloride (Titration)

QC Batch: 57879 Analytical Method:

SM 4500-Cl B

Prep Method: N/A

Prep Batch: 49440

Date Analyzed: Sample Preparation:

2009-03-23 2009-03-23

Analyzed By: AR Prepared By: AR.

RL

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

Sample: 190783 - BH-4 (20-21)

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 57879

Analytical Method: SM 4500-Cl B Date Analyzed: 2009-03-23

Prep Method: N/A Analyzed By: AR

Prep Batch: 49440

Sample Preparation: 2009-03-23 Prepared By: AR

RL

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

Sample: 190784 - BH-5 (5-6)

Laboratory:

Midland

Analysis: Chloride (Titration)

Analytical Method: Date Analyzed:

SM 4500-Cl B

Prep Method: N/A Analyzed By: AR.

QC Batch: Prep Batch:

57880 49441

2009-03-23 Sample Preparation: 2009-03-23

Prepared By: AR

RL

Parameter Flag Result Units Dilution RLChloride < 200 mg/Kg 50 4.00

Sample: 190785 - BH-5 (10-11)

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 57880 Analytical Method: Date Analyzed:

SM 4500-Cl B 2009-03-23

Prep Method: N/A Analyzed By: AR.

Prep Batch: 49441 Sample Preparation:

2009-03-23

Prepared By: AR

3381

Work Order: 9032008 Oxy/Lost Tank 33 Fed. #10 Page Number: 7 of 10

Eddy Co., NM

Flag	.Result	Units	Dilution	RL
	< 200	mg/Kg	50	4.00
			<200 mg/Kg	<200 mg/Kg 50

Sample: 190786 - BH-5 (15-16)

Laboratory:

Midland

Analysis: Chloride (Titration)

QC Batch: 57880

Prep Batch: 49441

Analytical Method: Date Analyzed:

SM 4500-Cl B 2009-03-23

Prep Method: N/A

Analyzed By:

AR AR

Sample Preparation: 2009-03-23

Prepared By:

Chloride		458	mg/Kg	50	4.00
Parameter	Flag	Result	Units	Dilution	RL
		RL			

Sample: 190787 - BH-5 (20-21)

Laboratory:

Midland

Analysis:

Chloride (Titration)

Analytical Method:

SM 4500-Cl B

Prep Method: N/A

QC Batch:

57880

Date Analyzed:

2009-03-23

Analyzed By: AR AR

Prep Batch: 49441

Sample Preparation: 2009-03-23 Prepared By:

RL

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

Method Blank (1)

QC Batch: 57879

QC Batch:

57879

Date Analyzed:

2009-03-23

Analyzed By: AR

Prep Batch: 49440

Prepared By: AR

QC Preparation: 2009-03-23

Flag

Parameter Chloride

MDL

Result < 2.18

Units

mg/Kg

RL4

Method Blank (1)

QC Batch: 57880

QC Batch:

57880

Date Analyzed:

2009-03-23

AR Analyzed By:

Prep Batch: 49441

QC Preparation: 2009-03-23

Prepared By: AR

3381

Work Order: 9032008 Oxy/Lost Tank 33 Fed. #10 Page Number: 8 of 10 Eddy Co., NM

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 49440

57879

Date Analyzed: QC Preparation: 2009-03-23

2009-03-23

Analyzed By: AR

Prepared By: AR

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	98.1	mg/Kg	1	100	<2.18	98	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	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	99.4	mg/Kg	1	100	<2.18	99	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch:

57880

Date Analyzed:

2009-03-23

Analyzed By: AR

Prep Batch: 49441

QC Preparation: 2009-03-23

Prepared By: AR

	LCS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	Dil.	\mathbf{Amount}	Result	Rec.	\mathbf{Limit}
Chloride	101	mg/Kg	1	100	< 2.18	101	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	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	1	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: 190783

QC Batch:

57879

Date Analyzed:

2009-03-23

Analyzed By: AR

Prep Batch:

49440

QC Preparation:

2009-03-23

Prepared By: AR

MS Spike Matrix Rec. Result Limit Param Units Dil. Amount Result Rec. Chloride 4740 50 5000 <109 95 85 - 115 mg/Kg

3381

Work Order: 9032008 Oxy/Lost Tank 33 Fed. #10 Page Number: 9 of 10 Eddy Co., NM

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

	MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	4770	mg/Kg	50	5000	<109	95	85 - 115	1	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: 190787

QC Batch:

57880

Date Analyzed:

2009-03-23

Analyzed By: AR

Prep Batch: 49441

QC Preparation: 2009-03-23

Prepared By: AR

	MS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	5050	mg/Kg	50	5000	<109	101	85 - 115

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

	MSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	5130	mg/Kg	50	5000	<109	103	85 - 115	1	20

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

Standard (ICV-1)

QC Batch: 57879

Date Analyzed: 2009-03-23

Analyzed By: AR

			ICVs True	ICVs Found	${f ICVs} \ {f Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	105	105	85 - 115	2009-03-23

Standard (CCV-1)

QC Batch: 57879

Date Analyzed: 2009-03-23

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Laram	rag	Omo	Conc.	Conc.	rtecover y	Limits	Anaryzed
Chloride		mg/Kg	100	94.8	95	85 - 115	2009-03-23

Standard (ICV-1)

QC Batch: 57880

Date Analyzed: 2009-03-23

Analyzed By: AR

3381

Work Order: 9032008 Oxy/Lost Tank 33 Fed. #10 Page Number: 10 of 10

Eddy Co., NM

			ICVs True	ICVs Found	${ m ICVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-03-23

Standard (CCV-1)

QC Batch: 57880

Date Analyzed: 2009-03-23

Analyzed By: AR

			CCVs True	CCVs Found	$rac{ ext{CCVs}}{ ext{Percent}}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-03-23

Analysis Reques		······································	PAGE	<u>: </u>	OF: 2		
		((ANALYSIS R Circle or Specify		}		
	5 (Ext. to C35)	Cr Pb Hg Se Vr Pd Hg Se					
CLIENT NAME:	SITE MANAGER:	PRESERVATIVE METHOD	TX1005	Ba Cd Ba Cd	0/625		Ha,
PROJECT NO.: PROJECT NAM	SITE MANAGER. ALE LOST TANK fed. 35 *10 ELDE CO NM. SAMPLE IDENTIFICATION	(CONTAIN)	1 1	12 2 1	Volatiles 8240/8260 il. Vol. 827 7608	38 c. (Air)	itos)
LAB I.D. DATE TIME WATERY COMP.	Soldy Co. MM. SAMPLE IDENTIFICATION	FILTERED (Y/N) HCL HNO3 ICE NONE	BTEX 8021B TPH 8015	RCRA Metals Ag / TCLP Metals Ag / TCLP Volatiles	TCLP Semi Volatiles RCI GC.MS Vol. 8240/8260/624 GC.MS Semi. Vol. 8270/625 PCB's 8080/608	Pest. 808/608 Cinorida Gamma Spec. Alpha Beta (Air)	PLM (Asbestos) Major Anions/Cations, pH, TDS
7774316-09 5 2	BH-3 (5-6)					X	
775 1 3 1 B	34-3 (10-11)	1 /				X	
776 S 18,	H-3 (15-16)					X	
777 5 8	84-3 (20-21)					X	
778 S - B	14-3 (30-31)					X	
779 5 36	4-3 (35-36)	11 1 1 1 1				X	
780 S BA	4-4 (5-6)	11 17				X	
781 5 - 80	44 (6-11)	11				X	
	4-4 (15-16)	<i>i</i>				X	
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RELINQUISHED BY: (Signature) Date:	505 LINDASIN SILA	Date: <u>- 120 </u> Time: <u>- 9</u> : 0	5	SAMPLED BY	rine & Mittelle		Vate:
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SAMPLE CONDITION WHEN RECEIVED:	REMARKS: All tosts Midlage		 _L	-V	<u> </u>		1
9.6 Please fill out all copies - Labor	ratory retains Yellow copy - Return Orginal copy to Tel	/ tra Tech - Project Manag	er retains	Pink copy	- Accounting re	eceives Gold	CODV.

402600

Analysis Request of Chain of Custody Record	PAGE: OF:	
7 That you in the control of the con	ANALYSIS REQUEST (Circle or Specify Method No.)	
TETRATECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	1006 (Ext. to C35) Cd Cr Pb Hg Se Cd Vr Pd Hg Se 24 225 H, TDS	
CLIENT NAME SITE MANAGER: PRESERV METHOR METHOR PRESERV		
PROJECT NO.: BBS / PROJECT NAME: / SUM FEED 33 40 ON STAND ON SUM BELLEY COLOR OF THE SUM SAMPLE IDENTIFICATION SAMPLE IDENTIFICATION	8 AGD. MOD. MOD. Is Ag As is Ag As les Wolatiles Wolatiles R240/82 R608 R608 R6. Ro. Ros. Ros.	
PROJECT NO.: PROJECT NAME: PROJECT NO.: PROJECT NAME: Org. Fost Talk Feel 33 *10 SAMPLE IDENTIFICATION BY SAMPLE IDENTIFICATION BY SAMPLE IDENTIFICATION BY SAMPLE IDENTIFICATION	NONE BTEX 8021B TPH 8015 MOD. TX1005 PAH 8270 RCRA Metals Ag As Ba Cd C TCLP Metals Ag As Ba Cd V TCLP Semi Volatilies TCLP Semi Volatilies RCI GC.MS Vol. 8240/8260/625 PCB's 8080/608 Pest. 808/608 Garmna Spec. Alpha Beta (Air) PLM (Asbestos) Major Anions/Cations, pH, TDS	
78431608 \$ 1345 5-67	X X	
785 3 16-09 5 184-5 (10-12) 1 1 1 786 3 16-09 5 1845 (15-16) 1 1		
786 3 16-08 5 1845 (15-16)		
784 3-16-08 5 1845 (5-6) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature) Date: Time: Time:	HAND DELIVERED UPS OTHER: TETRA TECH CONTACT PERSON: Results by:	
RECEIVING LABORATORY: RECEIVED BY: (Signature) ADDRESS:	Milma RUSH Char. Authorized:	jes
CONTACT: PHONE: DATE: TIME:	Yes	No
SAMPLE CONDITION WHEN RECEIVED: REMARKS: All tests Midland		