State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised June 10, 2003

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

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

	1		Relo	ease Notifi	catio	on and Co	orrective A	ction				
						OPERA	ror	🔲 Init	ial Report 🛛 🖾	Final Repo		
lame of Co	ompany: (DXY USA, I	nc.		Ý	Contact: M	ark Andersen					
Address: 6	Desta Dri	ve, Suite 600	00, Midla	nd, TX 79705		Telephone I	No. (432) 685-5	5824		· · · · · · · · · · · · · · · · · · ·		
acility Nat	me: Dima	ggio Tank B	attery	·		Facility Typ	e: Well					
urface Ow	mer			Mineral (Dwner		······	Lease	No. NM-1800			
30-015	5-269	730		LOCA	ATIO	N OF RE	LEASE					
nit Letter	Section	Township	Range	Fect from the	Nort	h/South Line	Feet from the	East/West Line	County			
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escribe Area	Affected a	and Cleanup A	Action Tak	en.*								
acoum truck	was called	and recovere	d 35 barre	ls of oil. Backho	e was u	uilized to pick	up and remove sa	sturated soil. High	llander (Tetra Tech) collected		
mples from	excavation	for evaluation	n Impacte	d soils were exca	vated a	nd hauled to d	isposal. knowladzo onet m	adamatan 1 that and	WINDOOD -	ulan and		
gulations all	operators a	are required to	o report an	d/or file certain re	elease r	ne best of my	d perform correct	tive actions for rel	eases which may en	ndanger		
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gnatine.		YIMA	-K-C-	Q								
inted Name	Tim Reed	d (Tetra Tech	Agent for	OXY)		Approved by	District Superviso	TC.	(3			
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ile; Sr. Proje	eet Manage	r		······································		Approval Date	10-1-08	Expiration	Date: N/A			
mail Addres	s: <u>tim</u> othy.i	reed/astetratec	h.com			Conditions of	Approval:					
							<b>ک</b> م	la la	Attached	NIA		
te: 8/5/0	08	Phone. (4	432) 682-4	559				-		<u> </u>		
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AUG 1 5 2008 OCD-ARTESIA

August 5, 2008

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Ms. Sherry Bonham Environmental Bureau Oil Conservation Division, District 2 1301 W. Grand Ave. Artesia, New Mexico 88210

### Re: Assessment and Closure Request for the Pogo Producing Company (Now OXY, USA, Inc.), DiMaggio #1 Tank Battery, Located in Unit Letter J, Section 16, Township 26 South, Range 29 East, Eddy County, New Mexico.

Ms. Bonham:

Tetra Tech, (Formerly Highlander Environmental Corp.) was contacted by Pogo Producing Company (now OXY) to collect confirmation samples from a release that occurred at the DiMaggio #1 Tank Battery located at Unit Letter J, Section 16, Township 26 South, Range 29 East, Eddy County, New Mexico. The site location coordinates are N 32.04009° W 103.98632°. The Site is shown on Figure 1.

### Background

On December 7, 2008, the oil tank over-flowed, releasing 40 barrels of oil, which was contained inside the southern end of the facility firewalls. A vacuum truck was immediately called out to the site and approximately 35 barrels of oil was recovered from the ground. The impacted area measured approximately 32' x 50'. The State of New Mexico C-141 (Initial) is included in Appendix C.

### Groundwater and Regulatory

According to the Ground Water Report 3, "Geology and Ground-Water Resources of Eddy County, New Mexico", there is one well in Section 16 (26.29.16.220) with a reported depth to groundwater of 125' below ground surface (bgs). Copies of the water level data are enclosed in Appendix A.

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 mg/kg and 50 mg/kg for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based upon the apparent regional depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

#### Soil Assessment

On January 23, 2008, Highlander inspected and assessed the spill area. Prior to sampling, Pogo supervised the removal of approximately 6" of impacted soil from the spill area and backfilled with clean caliche. A total of five (5) auger holes were installed inside the tank battery facility firewall to assess the spill area. Samples were collected to the top of a dense caliche layer. Soil samples collected were analyzed for evaluation by method 8015M, BTEX by method 8021B and chloride by method 300.0. The sample locations are shown on Figure 2. The sampling results are summarized in Table 1.

#### Soil Sample Results

Referring to Table 1, none of the samples exceeded the RRALs for TPH or BTEX. The chloride concentrations ranged from <100 mg/kg to 1980 mg/kg. AH-3 and AH-4 showed chloride concentrations of 181 mg/kg (0.5-1.0') and <100 mg/kg (0.5-1.0'), respectively. The remaining auger holes (AH-1, AH-3 and AH-5) were not vertically defined, with bottom hole samples exceeding 1,000 mg/kg.

Based on the data, the hydrocarbon stained soils inside the tank battery were excavated to a depth of 0.5' below surface and hauled to disposal. These areas were backfilled with clean material. In order to define the vertical extent of chloride impact, three backhoe trenches were installed. Due to piping and accessibility, a trench could not be placed in the vicinity of AH-5. The trench locations are shown on Figure 3. Chloride concentrations in the trenches declined with depth. The chloride concentration in T-1 (AH-1) at 3.0' bgs was 509 mg/kg. The concentration in T-2 (AH-2) declined to 681 mg/kg at 10.0' bgs and in T-3 (AH-3) to 175 mg/kg at 4.0' bgs.

Based upon the results of the sampling, depth to groundwater and location of the spill area inside the facility firewall, OXY requests closure of this site. A copy of the C-141 (Final) is included in Appendix A. If you have any question or comments concerning the assessment or the closure request, please call me at (432) 682-4559.

Respectfully submitted,

Tetra Tech

Tim Reed, P.G. Sr. Project Manager

cc: Mark Andersen – OXY

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Midland, 1X 79705 Tel 432 682.4559 Fax 432.682.3946 <u>www.tetratech.com</u>

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Table 1Pogo Producing CompanyDiMaggio #1 Tank BatteryEddy County, New Mexico

Sample	Soils S	Status	Date	Sample		TPH (mg/kg	)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Insitu	Removed	Sampled	Depth (ft)	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	<u> </u>		1/23/2008	0.5-1.5	105	5.63	110.6	< 0.0200	< 0.0200	<0.0200	0.444	1,090
(T-1)	Х		4/24/2008	2.0								1,920
	Х	,	4/24/2008	3.0								509 >
AH-2	X		1/23/2008	0.5-1.5	89.8	50.2	140	<0.0200	<0.0200	<0.0200	0.0659	1,210
	Х		1/23/2008	1.5-2.0	64.2	3.9	68.1	-	-	-	_	952
	X		1/23/2008	2.5-3.0	-	-	-	-	-	-	-	1,500 _
(T-2)	X		4/24/2008	3.0	-	-		-		-	-	1,730
	Х		4/24/2008	4.0	-	-	-	-	-	-	_	2,150
	<u>x</u>		4/24/2008	5.0	-	-	_	_	-	-	-	714
	х		4/24/2008	6.0	-	-	_	-	-	-	-	1,800
	X		5/19/2008	8.0	-			-	-	-		1,500
	<u>x</u>		5/19/2008	10.0		-	-		-	-		( 681 )
		L										
АН-3	x		1/23/2008	0.5-1.0	1,930	3,020	4,950.0	0.897	9.02	6.08	23.6	181
(T-3)	x		4/24/2008	2.0	<50.0	<1.0	<50.0	<0.01	0.01	< 0.01	< 0.01	599
	X		4/24/2008	3.0	<50.0	<1.0	<50.0	< 0.01	0.0249	<0.01	< 0.01	1,010
	x		4/24/2008	4.0	-	-	-	-	_	-	-	175
	x		4/24/2008	5.0	-	-	-	-	-	_	-	275
											,	
AH-4	Х		1/23/2008	0.5-1.0	70.3	17	87.3	<0.0100	0.019	< 0.0100	0.0345	<100
AH-5	x		1/23/2008	0.5-1.0	<50.0	7.8	7.8	< 0.0100	< 0.0100	< 0.0100	<0.0100	1,980

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# APPENDIX A GROUNDWATER DATA

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19	20	21	22	23	24		15
30	29	28	27	26	25	1	30
31	32	33	34	35	36		31
	Sou	uth	E	ast			
6	5	4	3	2	1		6
7	8	9	10	11	12		7
18	17	16	15	14	13		18
19	20	21	22	23	24		19
30	29	28	27	26	25		30
31	32	33	34	35	36		31
	Sou	ıth	E	ast			
6	5	4	3	2	1		6
7	8	9	10	11	12		7
18	17	16	15	14	13		18
19	20	21	22	23	24		19
30	29	28	27	26	25		30
31	32	33	34	35	36		31

### Water Well - Average Depth to Groundwater Pogo - Damaggio #, Eddy County, New Mexico

	Sou	uth	E	ast	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	. 32	33	34	35	36

East

26 South

South

		So	uth	E	ast	
	6	5	4	3	2	1
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6	5	4	[.] 3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

East

South

	So	uth	Ea	ast	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

150 Average depth to groundwater (ft) - New Mexico State Engineer Well Reports

56 Groundwater Depth (ft) - Geology and Groundwater Resources of Eddy County, New Mexico (Report 3) Site Location

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LOCATION Number	BELOW LAND SURFACE ([cct)	DATE OF MEASUREMENT	YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REM ARKS
26.28.13.110	_56,0	Dec. 15, 1948	3	w	S	See analysis. Table 3.
26.29.16.220	125.0 1	Mar. 11, 1949	-	w	S	
26.30.8.110	172.0	Dec. 15, 1948	3 E.	W	S	Depth to water measured while pump- ing. See analysis, Table 3
26.31.1.000	287.7	Mar. 10, 1949	-	W	S	East well of two. See analysis. Table 3.
8.310	250	<b>—</b>	_	W	D & S	See analysis. Table 3.
8.910a	278.5	Mar. 10, 1949	-	N	N	100 ft. southwest of above well.

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See explanation at beginning of table.

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	New Mexico Well B	<i>Office of the S</i> Reports and Do	<i>State Engineer</i> wnloads		
Township: 2	26S Range: 29E	Sections:			
NAD27 X:	Y:	Zone:	Search	Radius:	
County:	Basin:		Number:	Suffix:	
Owner Name: (First)	(	Last) (• All	·]·Non-I	Domestic Domest	tic
Well / Surface Data R	eport /	vg Depth to Wat	er Report	Water Column Report	rt
AVERAGE DEE	TH OF WATER RE	PORT 09/01/20	005		
Ban Twa Rng Sec 2	one X	Y Wells	(Depth Water Min Max	in Feet) Ava	
C 26S 29E 26		1	85 85	85	
Record Count: 1					
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# APPENDIX B LAB ANALYSIS

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# LAB ANALYSIS APRIL 30, 2008

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### Summary Report

Ike Tavarez Highlander Environmental Services 1910 N. Big Spring Street Midland, TX, 79705

Report Date: April 30, 2008

Work Order: 8042515

Project Location:	Eddy County, NM
Project Name:	OXY/Dimaggio #1 TB
Project Number:	3376

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
157899	T-1 2.0'	soil	2008-04-24	00:00	2008-04-25
157900	T-1 3.0'	soil	2008-04-24	00:00	2008-04-25
157904	T-2 3.0'	soil	2008-04-24	00:00	2008-04-25
157905	T-2 4.0'	soil	2008-04-24	00:00	2008-04-25
157906	T-2 5.0'	soil	2008-04-24	00:00	2008-04-25
157907	T-2 6.0'	soil	2008-04-24	00:00	2008-04-25
157908	T-3 2.0'	soil	2008-04-24	00:00	2008-04-25
157909	T-3 3.0'	soil	2008-04-24	00:00	2008-04-25
157910	T-3 4.0'	soil	2008-04-24	00:00	2008-04-25
157911	T-3 5.0'	soil	2008-04-24	00:00	2008-04-25

	BTEX ·			TPH DRO	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
157908 - T-3 2.0'	< 0.0100	0.0101	< 0.0100	< 0.0100	<50.0	<1.00
157909 - T-3 3.0'	< 0.0100	0.0249	< 0.0100	< 0.0100	<50.0	<1.00

### Sample: 157899 - T-1 2.0'

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		1920	mg/Kg	2.00

#### Sample: 157900 - T-1 3.0'

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		509	mg/Kg	2.00

#### Sample: 157904 - T-2 3.0'

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		1730	mg/Kg	2.00

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

Report Date: April 30, 2008 3376		Work Order: 8042515 OXY/Dimaggio #1 TB		Page Number: 2 of 2 Eddy County, NM
Sample: 157905	- T-2 4.0'			
Param	Flag	$\mathbf{Result}$	Units	$\mathbf{RL}$
Chloride		2150	mg/Kg	2.00
Sample: 157906	- T-2 5.0'			,
Param	Flag	Result	Units	RL
Chloride		714	mg/Kg	2.00
Sample: 157907	- T-2 6.0'			
Param	Flag	Result	Units	RL
Chloride	6	1800	mg/Kg	2.00
Chloride	1 145	599	mg/Kg	3.25
Sample, 157000	T 2 2 0			
Sample: 157909 -	- T-3 3.0'	D 14	<b>T</b> T: 11 -	DI
Sample: 157909 - Param Chloride	- <b>T-3 3.0'</b> Flag	Result	Units mg/Kg	RL 3.25
Sample: 157909 - Param Chloride	- T-3 3.0' Flag	Result 1010	Units mg/Kg	RL 3.25
Sample: 157909 - Param Chloride Sample: 157910 -	- T-3 3.0' Flag	Result 1010	Units mg/Kg	RL 3.25
Sample: 157909 - Param Chloride Sample: 157910 - Param	- T-3 3.0' Flag - T-3 4.0' Flag	Result 1010 Result	Units mg/Kg Units	RL 3.25 RL
Sample: 157909 - Param Chloride Sample: 157910 - Param Chloride	- T-3 3.0' Flag - T-3 4.0' Flag	Result 1010 Result 175	Units mg/Kg Units mg/Kg	RL 3.25 RL 2.00
Sample: 157909 - Param Chloride Sample: 157910 - Param Chloride Sample: 157911 -	- T-3 3.0' Flag - T-3 4.0' Flag T-3 5.0'	Result 1010 Result 175	Units mg/Kg Units mg/Kg	RL 3.25 RL 2.00
Sample: 157909 - Param Chloride Sample: 157910 - Param Chloride Sample: 157911 - Param	- T-3 3.0' Flag - T-3 4.0' Flag T-3 5.0' Flag	Result 1010 Result 175 Result	Units mg/Kg Units mg/Kg Units	RL 3.25 RL 2.00 RL

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

Lubbock, Texas 79424 El Paso, Texas 79922 Midland Texas 79703 Ft Worth, Texas 76132 E-Mail lab@traceanalysis.com

800 • 378 • 1296 888+588+3443

806 • 794 • 1296 FAX 806 • 794 • 1298 915+585+3443 FAX 915 • 585 • 4944 432 • 689 • 6301 FAX 432 • 689 • 6313 817 • 201 • 5260

# Analytical and Quality Control Report

Ike Tavarez **Highlander Environmental Services** 1910 N. Big Spring Street Midland, TX, 79705

Project Location: Eddy County, NM Project Name: OXY/Dimaggio #1 TB Project Number: 3376

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

			Date	Time	$\mathbf{Date}$
Sample	Description	Matrix	Taken	Taken	Received
157899	T-1 2.0'	soil	2008-04-24	00:00	2008-04-25
157900	T-1 3.0'	soil	2008-04-24	00:00	2008-04-25
157904	T-2 3.0'	soil	2008-04-24	00:00	2008-04-25
157905	T-2 4.0'	soil	2008-04-24	00:00	2008-04-25
157906	T-2 5.0'	soil	2008-04-24	00:00	2008-04-25
157907	T-2 6.0'	soil	2008-04-24	00:00	2008-04-25
157908	T-3 2.0'	soil	2008-04-24	00:00	2008-04-25
157909	T-3 3.0'	soil	2008-04-24	00:00	2008-04-25
157910	T-3 4.0'	soil	2008-04-24	00:00	2008-04-25
157911	T-3 5.0'	soil	2008-04-24	00:00	2008-04-25

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael ala

Dr. Blair Leftwich, Director

Report Date: April 30, 2008

Work Order: 8042515 

### Standard Flags

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

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Page 2 of 14

V.

Report Date: April 30, 2008 3376

### **Analytical Report**

#### Sample: 157899 - T-1 2.0'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47898 41186	Analytical Meth Date Analyzed: Sample Prepara	od: SM 4500-Cl B 2008-04-29 tion: 2008-04-29	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Parameter	Flag	RL Besult	Units	Dilution	RĨ.
Chloride	1 146	1920	mg/Kg	50	2.00

#### Sample: 157900 - T-1 3.0'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47898 41186	Analytical M Date Analyze Sample Prep	ethod:         SM 4500-Cl B           ed:         2008-04-29           aration:         2008-04-29	Prep Method Analyzed By Prepared By:	: N/A AR AR
Parameter	Flag	RL Besult	Units	Dilution	BL.
Chloride	1 105	509	mg/Kg	50	2.00

### Sample: 157904 - T-2 3.0'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	47898	Date Analyzed:	2008-04-29	Analyzed By:	AR
Prep Batch:	41186	Sample Preparation	n: 2008-04-29	Prepared By:	$\mathbf{AR}$
				-	
		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		1730	mg/Kg	50	2.00

#### Sample: 157905 - T-2 4.0'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	47898	Date Analyzed:	2008-04-29	Analyzed By:	AR
Prep Batch:	41186	Sample Preparation	: 2008-04-29	Prepared By:	$\mathbf{AR}$
		$\mathbf{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		2150	mg/Kg	50	2.00

#### Sample: 157906 - T-2 5.0'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	47898	Date Analyzed:	2008-04-29	Analyzed By:	AR
Prep Batch:	41186	Sample Preparation:	2008-04-29	Prepared By:	$\mathbf{AR}$

.

		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		714	mg/Kg	50	2.00

### Sample: 157907 - T-2 6.0'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47898 41186	Analytical Methe Date Analyzed: Sample Preparat	od: SM 4500-Cl B 2008-04-29 ion: 2008-04-29	Prep Method: Analyzed By: Prepared By:	N/A AR AR
<b>D</b>		RL			<b></b>
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		1800	mg/Kg	50	2.00

#### Sample: 157908 - T-3 2.0'

Analysis: QC Batch:	BTEX 47923			Analytical M Date Analyz	Aethod: zed:	S 8021B 2008-04-29		Prep Met Analyzed	hod: By:	S 5035 MT
Prep Batch:	41211			Sample Pre	paration:	2008-04-29		Prepared	By:	MT
				RL	I.					
Parameter	•	$\mathbf{Flag}$		Result		Units		Dilution		$\mathbf{RL}$
Benzene				< 0.0100		mg/Kg	<u> </u>	1		0.0100
Toluene				0.0101		mg/Kg		1		0.0100
Ethylbenzene	1			< 0.0100	I	mg/Kg		1		0.0100
Xylene				< 0.0100		mg/Kg		1		0.0100
							Spike	Percent	R	ecovery
Surrogate			Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	]	Limits
Trifluorotolue	ene (TFT)			0.857	mg/Kg	; 1	1.00	86	67	.4 - 126
4-Bromofluor	obenzene (	4-BFB)		1.05	mg/Kg	; 1	1.00	105	59	.2 - 162

#### Sample: 157908 - T-3 2.0'

Analysis: QC Batch:	Chloride (Titration) 47954	Analytical Meth Date Analyzed:	od: SM 4500-Cl B 2008-04-30	Prep Method: Analyzed By:	N/A RG
Prep Batch:	41239	Sample Prepara	ation: 2008-04-30	Prepared By:	RG
		$\mathbf{RL}$			
Parameter	$\mathbf{Flag}$	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		599	mg/Kg	10	3.25

#### Sample: 157908 - T-3 2.0'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	47932	Date Analyzed:	2008-04-29	Analyzed By:	RM
Prep Batch:	41218	Sample Preparation:	2008-04-29	Prepared By:	RM

			$\mathbf{RL}$				
Parameter	Fla	g	Result	Uni	its	Dilution	$\operatorname{RL}$
DRO			<50.0	mg/I	ζg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	$\mathbf{Result}$	Units	Dilution	$\operatorname{Amount}$	Recovery	Limits
n-Triacontane		132	mg/Kg	1	100	132	49.5 - 185

### Sample: 157908 - T-3 2.0'

Analysis: QC Batch:	TPH GRO 47924		Analytical Date Anal	Method: yzed:	S 8015B 2008-04-29		Prep Metl Analyzed	10d: S 5035 By: MT
Prep Batch:	41211		Sample Pr	eparation:	2008-04-29		Prepared	By: MT
			$\mathbf{RL}$					
Parameter	Flag		$\mathbf{Result}$		Units	Ľ	lution	$\mathbf{RL}$
GRO			<1.00		mg/Kg		1	1.00
			۲			Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		1.03	mg/Kg	1	1.00	103	75.6 - 128
4-Bromofluor	obenzene (4-BFB)		1.34	mg/Kg	1	1.00	134	78.5 - 139

### Sample: 157909 - T-3 3.0'

Analysis: QC Batch: Prep Batch:	BTEX 47923 41211		Analytical M Date Analyz Sample Prep	Method: zed: paration:	S 8021B 2008-04-29 2008-04-29		Prep Met Analyzed Prepared	hod: S 5035 By: MT By: MT
			$\mathbf{RL}$	1				
Parameter	Fla	ag	Result	1	$\mathbf{Units}$		Dilution	$\mathbf{RL}$
Benzene			< 0.0100	)	mg/Kg		1	0.0100
Toluene			0.0249	)	mg/Kg		1.	0.0100
Ethylbenzene			< 0.0100	1	mg/Kg		1	0.0100
Xylene			< 0.0100	)	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	me (TFT)	· · · · ·	0.943	mg/Kg	1	1.00	94	67.4 - 126
4-Bromofluor	obenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	59.2 - 162

#### Sample: 157909 - T-3 3.0'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47954 41239	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2008-04-30 2008-04-30	Prep Method: Analyzed By: Prepared By:	N/A RG RG
_		RL		<b></b>	
Parameter	Flag	Result	Units	Dilution	RL
Chloride		1010	mg/Kg	10 _	3.25

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3376	OXY/Dimaggio #1 TB	Eddy County, NM

#### Sample: 157909 - T-3 3.0'

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Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	47932	Date Analyzed:	2008-04-29	Analyzed By:	$\mathbf{R}\mathbf{M}$
Prep Batch:	41218	Sample Preparation:	2008-04-29	Prepared By:	RM

Parameter	Fla	g	$\operatorname{RL}$ Result	Uni	, its	Dilution	$\mathbf{RL}$
DRO			<50.0	mg/H	Кg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	0	168	mg/Kg	1	100	168	49.5 - 185

### Sample: 157909 - T-3 3.0'

Analysis:	TPH GRO		Analytical	Method:	S 8015B		Prep Met	hod: S 5035
QC Batch:	47924		Date Anal	yzed:	2008-04-29		Analyzed	By: MT
Prep Batch:	41211		Sample Pr	eparation:	2008-04-29		Prepared	By: MT
			$\mathbf{RL}$					
Parameter	Flag		Result		Units	Ľ	lution	$\mathbf{RL}$
GRO			<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{Amount}$	Recovery	Limits
Trifluorotolue	ene (TFT)		1.13	mg/Kg	1	1.00	113	75.6 - 128
4-Bromofluor	obenzene (4-BFB)	_	1.36	mg/Kg	1	1.00	136	78.5 - 139

### Sample: 157910 - T-3 4.0'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	47898	Date Analyzed:	2008-04-29	Analyzed By:	AR
Prep Batch:	41186	Sample Preparation	: 2008-04-29	Prepared By:	$\mathbf{AR}$
		$\mathbf{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		175	mg/Kg	50	2.00

,

### Sample: 157911 - T-3 5.0'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47899 41187	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2008-04-29 2008-04-29	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Parameter	Flag	RL Result	Units	Dilution	$\mathbf{RL}$
Chloride		275	ng/Kg	50	2.00

Report Date: April 30, 3376	, 2008	W OX	ork Order Y/Dimag	r: 8042515 gio #1 TB		Page N Edd	umber: 7 of 1 ly County, NI
Method Blank (1)	QC Batch: 47898						
QC Batch: 47898 Prep Batch: 41186		Date Anal QC Prepa	lyzed: f tration: f	2008-04-29 2008-04-29		Analy Prepa	zed By: AR .red By: AR
	ות		MD	L			
Chloride	F lag	· · · · · · · · · · · · · · · · · · ·	<0.50	0	Uni mg/	Kg	2
Method Blank (1)	QC Batch: 47899						
QC Batch: 47899 Prep Batch: 41187		Date Anal QC Prepa	yzed: 2 ration: 2	2008-04-29 2008-04-29		Analy Prepa	zed By: AR red By: AR
Parameter	Flag		MDI Resul	- t	Uni	ts	RI
Chloride			< 0.50	0	mg/l	Kg	2
Darameter	Flag	≪⊖ i tehat	MI Res	DL ult	Uni	ts	RL
Benzene Coluene Sthylbenzene Sylene			<0.003 <0.005 <0.006	347 525 507 724	mg/ mg/ mg/	Kg Kg Kg Kg	0.01 0.01 0.01
					Spike	Percent	Recovery
urrogate	Flag	Result 0.816	Units	Dilution	Amount	Recovery	Limits
-Bromofluorobenzene (4	4-BFB) ¹	0.424	mg/Kg	1	1.00	42	42.4 - 99.7
Method Blank (1)	QC Batch: 47924						
QC Batch: 47924 Prep Batch: 41211		Date Analy QC Prepar	vzed: 20 ation: 20	008-04-29 008-04-29		Analyz Prepar	ed By: MT ed By: MT
-			MDL		TT		
arameter	Flag		Result		Unit	s	RL

¹BFB surrogate recovery within control chart limits.

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Surrogate		Flag	Result	Uni	ts Dil	ution	Spike Amount	Perce Recov	ent Ro very I	ecovery Limits		
Trifluorotoluene (TF	$\Gamma$ )	27	0.974	mg/	Kg V	1	1.00	97 5 <i>6</i>	8	5 - 116		
4-DIOMONUOIODENZEN	e (4-DI-1	,)	0.001	ng/1	<u>ng</u>	1	1.00		40.	2 - 90.0		
Method Blank (1)	QC	Batch: 47932										
QC Batch: 47932			Date Ana	alyzed:	2008-04-	29		A	nalyzed By	: RM		
Prep Batch: 41218			QC Prep	aration:	2008-04-	29		Р	repared By	: RM		
_				M	IDL							
Parameter		Flag		Re	sult		UI	nits		RL		
DRO					5.77		mg	/Kg		50		
Surrogate	Flag	Result	Units		Dilution	S Ai	pike nount	Percent Recover	t Re	ecovery Jimits		
n-Triacontane		166	mg/Kg		1		100	166	49	5 - 185		
Parameter Chloride		Flag		M Res	DL ult		Uni mg/	ts		RL 3.25		
Laboratory Contro QC Batch: 47898 Prep Batch: 41186	l Spike	(LCS-1)	Date Ana QC Prepa	lyzed: tration:	2008-04-2 2008-04-2	29 29		A P	nalyzed By repared By:	AR AR		
		LO	CS			Spik	e M	atrix		Rec.		
Param		Res	ult U	Inits	Dil.	Αποι	int R	esult	Rec.	Limit		
Chloride		99	.0 m	g/Kg	1	100	<(	0.500	99 8	5 - 115		
Percent recovery is ba	sed on th	e spike result.	RPD is ba	sed on	the spike a	nd spike	duplicate	result.				
2		LCSD	<b>T</b> T •.	D.1	Spike	Matr	ix b	Rec.	DDD	RPD		
aram		Result	Units	Dil.	Amount	Resu	It Rec.	Limit	RPD	Limit		
Percent recovery is ba	sed on th	e spike result.	mg/Kg RPD is ba	sed on t	the spike a	<0.5 nd spike	duplicate	85 - 115 result.	<u> </u>	20		
aboratory Control	Spike (	LCS-1)										
QC Batch: 47899			Date Anal	yzed:	2008-04-2	29		A	nalyzed By:	AR		
Prep Batch: 41187			QC Prepa	ration:	2008-04-2	29		Pi	repared By:	$\mathbf{AR}$		

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3376		Work Order: 8042515 OXY/Dimaggio #1 TB						Page Number: 9 of 14 Eddy County, NM		
	LCS		Spik		Mat	rix		Rec.		
Param	Result	Units	Dil.	Amount	Res	ult I	lec.	Limit		
Chloride	97.6	mg/Kg	1	100	<0.5	500	98	85 - 115		
Percent recovery is based on the s	pike result. RP	D is based on	the spike a	nd spike du	plicate re	sult.				
	LCSD		Spike	Matrix		Rec.		RPD		
Param	Result U	Units Dil.	Amount	Result	Rec.	Limit	RPD	Limit		
Chlonida	100 m	ig/Kg 1	100	< 0.500	100	85 - 115	3	20		
Percent recovery is based on the s	pike result. RP	D is based on	the spike a	nd spike du	plicate re	sult.				
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 47923	pike result. RP C <b>S-1</b> ) Da	D is based on te Analyzed:	the spike a 2008-04-2	nd spike du	plicate re	sult. An	alyzed B	y: MT		
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 47923 Prep Batch: 41211	pike result. RP CS-1) Da QC	D is based on te Analyzed: D Preparation:	the spike a 2008-04-2 2008-04-2	nd spike du 29 29	plicate re	sult. An Pre	alyzed B epared B	y: MT y: MT		
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 47923 Prep Batch: 41211	pike result. RP 2 <b>S-1</b> ) Da QC LCS	D is based on te Analyzed: Preparation:	the spike a 2008-04-2 2008-04-2	nd spike du 29 29 Spike	plicate res	sult. An Pre	alyzed B epared B	y: MT y: MT Rec.		
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 47923 Prep Batch: 41211 Param	pike result. RP CS-1) Da QC LCS Result	D is based on te Analyzed: Preparation: Units	the spike a 2008-04-2 2008-04-2 Dil.	nd spike du 29 29 Spike Amount	plicate res Matrix Result	sult. An Pre	alyzed B spared B	y: MT y: MT Rec. Limit		
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 47923 Prep Batch: 41211 Param Benzene	pike result. RP CS-1) Da QC LCS Result 0.911	D is based on te Analyzed: Preparation: Units mg/Kg	the spike a 2008-04-2 2008-04-2 Dil. 1	nd spike du 29 29 Spike <u>Amount</u> 1.00	Matrix Result <0.0034	sult. An Pre Re 17 9	alyzed B epared B ec. 1 7	y: MT y: MT Rec. Limit 7.2 - 116		
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 47923 Prep Batch: 41211 Param Benzene Toluene	pike result. RP CS-1) LCS Result 0.911 0.904	D is based on te Analyzed: Preparation: Units mg/Kg mg/Kg	the spike a 2008-04-2 2008-04-2 Dil. 1 1	nd spike du 29 29 Spike <u>Amount</u> 1.00 1.00	Matrix Result <0.0034 <0.0052	sult. An Pre <u>Re</u> 17 9 25 9	alyzed B epared B c. 1 7 ) 7	y: MT y: MT Rec. Limit 7.2 - 116 7.4 - 116		
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 47923 Prep Batch: 41211 Param Benzene Toluene Ethylbenzene	pike result. RP CS-1) LCS Result 0.911 0.904 0.908	D is based on te Analyzed: Preparation: Units mg/Kg mg/Kg mg/Kg	the spike a 2008-04-2 2008-04-2 Dil. 1 1	nd spike du 29 29 Spike Amount 1.00 1.00 1.00	Matrix Result <0.0034 <0.0052 <0.0060	sult. An Pre 7 9 25 90 27 9	alyzed B epared B ec. 1 7 0 7 1 7	y: MT y: MT Rec. Limit 7.2 - 116 7.4 - 112		

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
Benzene	0.935	mg/Kg	1	1.00	< 0.00347	94	77.2 - 116	3	20
Toluene	0.928	mg/Kg	1	1.00	< 0.00525	93	77.4 - 116	3	20
Ethylbenzene	0.930	mg/Kg	1	1.00	< 0.00607	93	77.4 - 112	2	20
Xylene	2.79	mg/Kg	1	3.00	< 0.00724	93	78.8 - 111	2	20

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

	LCS	LCSD	ĩ		Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.911	0.914	mg/Kg	1	1.00	91	91	74.2 - 114
4-Bromofluorobenzene (4-BFB)	0.884	0.891	mg/Kg	1	1.00	88	89	75.7 - 114

#### Laboratory Control Spike (LCS-1)

QC Batch:	47924	Date Analyzed:	2008-04-29	Analyzed By:	$\mathbf{MT}$
Prep Batch:	41211	QC Preparation:	2008-04-29	Prepared By:	$\mathbf{MT}$

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	9.96	mg/Kg	1	10.0	<0.144	100	76.4 - 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
GRO	9.70	mg/Kg	1	10.0	< 0.144	97	76.4 - 115	3	20

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

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Surrogate		LCS Resul	LCSD t Result	Units	Dil. A	Spike mount	LCS Rec.	LCS Rec	SD c.	Rec. Limit
Trifluorotoluene (TFT)		0.996	6 0.941	mg/Kg	1	1.00	100	94	8	0.3 - 113
4-Bromofluorobenzene (	4-BFB)	0.972	0.953	mg/Kg	1	1.00	97	95	7	0.7 - 110
Laboratory Control S	Spike (LCS	S-1)								
QC Batch: 47932			Date Analyzed	: 2008-04	1-29			Anal	yzed B	y: RM
Prep Batch: 41218			QC Preparatio	n: 2008-04	4-29			Prep	ared B	y: RM
_		LCS	3		Spike	M	atrix	_		Rec.
Param		Resul	lt Units	Dil	Amoun	t R	esult	Rec.		Limit
		265	mg/Kg		250	<	0.77	106	7.	3.9 - 138
Percent recovery is base	d on the spi	ike result. I	RPD is based o	n the spike	and spike	duplicate	e result			
		LCSD		Spike	Matrix	:	R	lec.		RPD
Param		Result	Units Dil.	Amoun	. Result	Rec.	Li	mit	RPD	Limit
DRO		262	mg/Kg 1	250	<6.77	105	73.9	- 138	1	20
		ч 1, т	ו ויחתר	n the spike	and spike	duplicate	e result.			
Percent recovery is based	l on the spi	ke résult. I	RPD is based o	n me spine	•	<b>r</b>		•		
Percent recovery is based	l on the spi LCS	LCSD	RPD is based o	n ine spine	Spike	L	CS	LCSD		Rec.
Percent recovery is based	l on the spi LCS Result	LCSD Result	Units	Dil.	Spike Amount	L( Re	CS ec.	LCSD Rec.		Rec. Limit
Percent recovery is based Surrogate 1-Triacontane Laboratory Control S	l on the spi LCS Result 119 pike (LCS	LCSD Result 121 3-1)	Units mg/Kg	Dil.	Spike Amount 100	L( Re 11	CS ec. 19	LCSD Rec. 121	49	Rec. Limit 0.5 - 185
Percent recovery is based <u>Derrogate</u> <u>In-Triacontane</u> Laboratory Control S QC Batch: 47954 Prep Batch: 41239	l on the spi LCS Result 119 pike (LCS	LCSD Result 121 3-1)	Units mg/Kg Date Analyzed: QC Preparation	Dil. 1 2008-04 1: 2008-04	Spike Amount 100 -30 -30 Spike	L( Re 11	CS ec. 19	LCSD Rec. 121 Anal Prep	49 yzed B ared By	Rec. Limit 9.5 - 185 y: RG r: RG Rec
Percent recovery is based Surrogate 1-Triacontane Laboratory Control S QC Batch: 47954 Prep Batch: 41239 Param	l on the spi LCS Result 119 pike (LCS	LCSD Result 121 3-1) LCS Result	Units <u>Units</u> <u>mg/Kg</u> Date Analyzed: QC Preparation t Units	Dil. 1 2008-04 1: 2008-04 Dil.	Spike Amount 100 30 30 Spike Amount		CS ec. 19	LCSD Rec. 121 Anal Prep Rec.	49 yzed By ared By	Rec. Limit J.5 - 185 y: RG r: RG Rec. Limit
Percent recovery is based <u>5urrogate</u> <u>1-Triacontane</u> Laboratory Control S QC Batch: 47954 Prep Batch: 41239 Param Chloride	l on the spi LCS Result 119 pike (LCS	LCSD Result 121 3-1) LCS Result 99.1	Units <u>Units</u> <u>mg/Kg</u> Date Analyzed: QC Preparation t Units <u>mg/Kg</u>	Dil. 1 2008-04 1: 2008-04 Dil. 1	Spike Amount 100 -30 -30 Spike Amount 100	LC Re 11	ec. 19 atrix esult 1.80	LCSD Rec. 121 Anal Prep Rec. 99	49 yzed B ared By 90	Rec. Limit ).5 - 185 y: RG r: RG Rec. Limit .8 - 103
Percent recovery is based <u>Surrogate</u> <u>1-Triacontane</u> Laboratory Control S QC Batch: 47954 Prep Batch: 41239 Param <u>Chloride</u> Percent recovery is based	l on the spi LCS Result 119 pike (LCS	ke result. F LCSD Result 121 S-1) I LCS Result 99.1 ke result. R	Units mg/Kg Date Analyzed: QC Preparation t Units mg/Kg RPD is based on	Dil. 1 2008-04 1: 2008-04 Dil. 1 n the spike	Spike Amount 100 30 30 Spike Amount 100 and spike	L( Re 11 11 K K K K K K K K K K K K K K K K	ec. 19 atrix esult 1.80 result.	LCSD Rec. 121 Anal Prep Rec. 99	49 yzed By ared By 96	Rec. Limit ).5 - 185 y: RG 7: RG Rec. Limit .8 - 103
Percent recovery is based <u>Durrogate</u> <u>1-Triacontane</u> Laboratory Control S QC Batch: 47954 Prep Batch: 41239 Param Chloride Percent recovery is based	l on the spi LCS Result 119 pike (LCS	LCSD Result 121 3-1) LCS Result 99.1 ke result. R	Units mg/Kg Date Analyzed: QC Preparation t Units mg/Kg RPD is based on	Dil. 1 2008-04 1: 2008-04 Dil. 1 1 the spike Spike	Spike Amount 100 -30 -30 Spike Amount 100 and spike Matrix	L( Re 11 11 Ke Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contentents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contententententents Contents Contents Contents Contents Contents	atrix esult 1.80 e result. R	LCSD Rec. 121 Anal Prep Rec. 99	49 yzed By ared By 90	Rec. Limit ).5 - 185 y: RG r: RG Rec. Limit .8 - 103 RPD
Percent recovery is based <u>5urrogate</u> <u>1-Triacontane</u> Laboratory Control S QC Batch: 47954 Prep Batch: 41239 Param <u>Chloride</u> Percent recovery is based Param	l on the spi LCS Result 119 pike (LCS	ke result. F LCSD Result 121 3-1) I LCS Result 99.1 ke result. R LCSD Result	Units <u>Units</u> <u>mg/Kg</u> Date Analyzed: QC Preparation <u>t</u> <u>Units</u> <u>mg/Kg</u> RPD is based on Units <u>Dil</u> .	Dil. 1 2008-04 1: 2008-04 Dil. 1 n the spike Amount	Spike Amount 100 -30 -30 Spike Amount 100 and spike Matrix Result	L( Re 11 Ma Re duplicate Rec.	ec. 19 atrix sult 1.80 result. Ru Lin	LCSD Rec. 121 Anal Prep Rec. 99 ec. nit	yzed By ared By 90 RPD	Rec. Limit J.5 - 185 y: RG y: RG r: RG Rec. Limit .8 - 103 RPD Limit
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Percent recovery is based Surrogate n-Triacontane Laboratory Control S QC Batch: 47954 Prep Batch: 41239 Param Chloride Percent recovery is based Param Chloride Percent recovery is based	l on the spi LCS Result 119 pike (LCS on the spil	LCSD Result 121 3-1) LCS Result 99.1 ke result. R LCSD Result 99.7 ke result. R	Units mg/Kg Date Analyzed: QC Preparation t Units mg/Kg RPD is based on <u>Units Dil.</u> mg/Kg 1 RPD is based on	Dil. 1 2008-04 n: 2008-04 Dil. 1 n the spike Spike Amount 100 n the spike	Spike Amount 100 30 30 30 30 30 30 30	L( Re 11 Ma 2 Re duplicate Rec. 100 duplicate	etrix esult 1.80 presult. 96.8 presult.	LCSD Rec. 121 Anal Prep Rec. 99 ec. mit - 103	49 yzed By ared By 96 <u>RPD</u> 1	Rec. Limit 5 - 185 y: RG r: RG Rec. Limit .8 - 103 RPD Limit 20
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Percent recovery is based Surrogate 1-Triacontane Laboratory Control S QC Batch: 47954 Prep Batch: 41239 Param Chloride Percent recovery is based Param Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47898 Prep Batch: 41186	l on the spi LCS Result 119 pike (LCS on the spil on the spil Spiked S	ke result. F LCSD Result 121 3-1) I LCS Result 99.1 ke result. R LCSD Result 99.7 ke result. R Sample: 157	Units mg/Kg Date Analyzed: QC Preparation t Units mg/Kg RPD is based on Units Dil. mg/Kg 1 RPD is based on 910 Date Analyzed: QC Preparation	Dil. 1 2008-04 1 2008-04 Dil. 1 1 1 1 1 1 1 1 1 1 1 1 1	Spike Amount 100 -30 -30 Spike Amount 100 and spike Matrix Result <1.80 and spike -29 -29 -29 Spike	L( Re 11 Ma Re duplicate Rec. 100 duplicate	atrix 19 atrix sult 1.80 result. Ru Lin 96.8 result.	LCSD Rec. 121 Anal Prep Rec. 99 ec. nit - 103 Anal Prepa	yzed By ared By 96 <u>RPD</u> 1 yzed By ared By	Rec. Limit J.5 - 185 y: RG r: RG Rec. Limit .8 - 103 RPD Limit 20
Percent recovery is based Surrogate h-Triacontane Laboratory Control S QC Batch: 47954 Prep Batch: 41239 Param Chloride Percent recovery is based Param Chloride Percent recovery is based Matrix Spike (MS-1) PC Batch: 47898 Param Param	l on the spi LCS Result 119 pike (LCS on the spil on the spil Spiked S	LCSD Result 121 3-1) I LCS Result 99.1 ke result. R LCSD Result 99.7 r ke result. R Sample: 157 C MS Result	Units mg/Kg Date Analyzed: QC Preparation t Units mg/Kg RPD is based on Units Dil. mg/Kg 1 RPD is based on 910 Date Analyzed: QC Preparation t Units	Dil. 1 2008-04 1 2008-04 Dil. 1 n the spike Amount 100 n the spike 2008-04 : 2008-04 Dil.	Spike Amount 100 -30 -30 Spike Amount 100 and spike <1.80 and spike -29 -29 -29 Spike Amount	LC Re 11 11 Ma 2 Re duplicate Rec. 100 duplicate	ec. 19 atrix esult 1.80 result. R( Lin 96.8 result. fatrix fatrix tesult	LCSD Rec. 121 Anal Prep Rec. 99 ec. mit - 103 Anal Prepa Rec	yzed By ared By 96 <u>RPD</u> 1 yzed By ared By	Rec. Limit J.5 - 185 y: RG r: RG Rec. Limit 20 r: AR : AR : AR : AR Rec. Limit

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		(	DXY/Din	aggio #1 '	ГВ 			E	ddy Co	unty, NN
	MSD			Spike	Matı	ix	R	.ec.		RPE
Param	Result	Units	Dil.	Amount	c Resu	lt Rec	. Li	mit	$\mathbf{RPD}$	Limi
Chloride	5300	mg/K	g 50	5000	174.'	'4 102	85 -	- 115	2	20
Percent recovery is based on th	ie spike result.	RPD is	based on	the spike	and spike	duplicate	e result.			
Matrix Spike (MS-1) Spi	iked Sample: 1	57935								
QC Batch: 47899		Date A	nalyzed:	2008-04-	29			Ana	lyzed B	y: AR
Prep Batch: 41187		QC Pre	eparation	: 2008-04-	-29			Preț	bared B	y: AR
	М	IS			Spik	e N	<b>A</b> atrix			Rec.
Param	Res	ult	Units	Dil.	Amou	nt I	Result	Re	c	Limit
Uhloride	53	90	mg/Kg	50	5000	) 2	23.14	10	3	85 - 11
Percent recovery is based on th	ie spike result.	RPD is	based on	the spike a	and spike	duplicate	e result.			
	MSD			Spike	Matr	x	R	ec.		RPI
Param	Result	Units	Dil.	Amount	Resu	t Rec.	Liı	nit	RPD	Limi
Chloride	5450	mg/K	g 50	5000	223.1	4 104	85 -	115	1	20
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Plan Batch: 41211	e spike result. ked Sample: 15	KPD is 57555 Date Ai	nalyzed:	2008-04-	and spike	duplicate	e result.	Anal	yzed By	и: МТ
Percent recovery is based on th Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211	e spike result. ked Sample: 1	RPD is 57555 Date Ai QC Pre	based on nalyzed: paration:	2008-04- 2008-04-	and spike 29 29	duplicate	e result.	Anal Prep	yzed By ared By	7: MT 7: MT
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211	e spike result. ked Sample: 1 MS	RPD is 57555 Date Ai QC Pre	halyzed:	2008-04- 2008-04-	29 29 29 Spike	duplicate Ma	atrix	Anal Prep	yzed By ared By	v: MT v: MT Rec.
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param	ked Sample: 1 ked Sample: 1 Ms Rest	RPD is 57555 Date Ar QC Pre	nalyzed: paration:	2008-04- 2008-04- 2008-04- Dil.	29 29 29 Spike Amoun	duplicate Ma t Re	atrix sult	Anal Prep Rec.	yzed By ared By	r: MT r: MT Rec. Limit
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param PRO	ked Sample: 1 ked Sample: 1 Ms Ress 2 27	$\begin{array}{c} \text{RPD is} \\ 57555 \\ \text{Date Ai} \\ \text{QC Pre} \\ \\ 3 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	nalyzed: paration: <u>Units</u> mg/Kg	2008-04- 2008-04- Dil. 	29 29 29 Amoun 10.0	Ma t Re	atrix sult 40	Anal Prep Rec. 320	yzed By ared By 40	<ul> <li>': MT</li> <li>': MT</li> <li>Rec.</li> <li>Limit</li> <li>1.1 - 15²</li> </ul>
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param Param Param Percent recovery is based on th	ked Sample: 1 ked Sample: 1 MS Resu 2 2 27 e spike result.	RPD is 57555 Date An QC Pre 3 alt 2 1 RPD is	based on nalyzed: paration: <u>Units</u> mg/Kg based on	2008-04- 2008-04- 2008-04- Dil. 20 the spike a	29 29 29 <u>Amoun</u> 10.0 und spike	Ma t Re duplicate	atrix sult 40 result.	Anal Prep Rec. 320	yzed By ared By 40	7: MT 7: MT Rec. Limit 0.1 - 154
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the	he spike result. ked Sample: 1 $\frac{MS}{\frac{2}{275}}$ e spike result. MSD	RPD is 57555 Date An QC Pre S ult 2 r RPD is	halyzed: paration: <u>Units</u> mg/Kg based on	2008-04- 2008-04- 2008-04- Dil. 20 the spike a Spike	29 29 29 Amoun 10.0 and spike Matrix	Ma t Re duplicate	atrix sult 40 result. Re	Anal Prep. Rec. 320 c.	yzed By ared By 40	7: MT 1: MT Rec. Limit 1.1 - 154 RPD
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the Param	ked Sample: 1: ked Sample: 1: <u>Resu</u> 2 e spike result. <u>MSD</u> <u>Result</u>	RPD is 57555 Date Ar QC Pre S ult 2 r RPD is Units	nalyzed: paration: Units mg/Kg based on Dil.	2008-04- 2008-04- Dil. 20 the spike a Spike Amount	29 29 29 Amoun 10.0 	Ma t Re duplicate Rec.	atrix sult 40 result. Re Lin	Anal Prep <u>Rec.</u> 320 c. iit	yzed By ared By 40 RPD	r: MT Rec. Limit .1 - 154 RPD Limit
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the Param GRO Param GRO	ked Sample: 1 ked Sample: 1 MS 2 27 e spike result. MSD Result 3 313	RPD is 57555 Date An QC Pre 3 ult 2 r RPD is Units mg/Kg	halyzed: paration: Units mg/Kg based on Dil. 20	2008-04- 2008-04- Dil. 20 the spike a Spike Amount 10.0	29 29 29 and spike Matrix Result 240	Ma t Re duplicate <u>Rec.</u> 730	atrix sult 40 result. Re Lin 40.1 -	Anal Prep Rec. 320 c. iit 154	yzed By ared By 40 RPD 14	r: MT Rec. Limit .1 - 154 RPD Limit 20
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the Param GRO Percent recovery is based on the Param	Ms ked Sample: 1 ked Sample: 1 Resu $\frac{2}{272}$ e spike result. MSD Result $\frac{3313}{2}$ e spike result.	RPD is 57555 Date An QC Pre 3 ult 2 r RPD is Units mg/Kg RPD is 1	halyzed: paration: Units mg/Kg based on Dil. 20 based on	2008-04- 2008-04- 2008-04- Dil. 20 the spike a Spike Amount 10.0 the spike a	29 29 29 and spike Amoun 10.0 and spike Matrix Result 240 and spike	Ma t Re duplicate <u>Rec.</u> 730 duplicate	atrix sult 40 result. Re Lin 40.1 - result.	Anal Prep. Rec. 320 c. iit 154	yzed By ared By 40 RPD 14	r: MT Rec. Limit 1 - 154 RPD Limit 20
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the Param GRO Percent recovery is based on the Param	ked Sample: 1 ked Sample: 1 Resu 2 27 e spike result. MSD Result 3 313 e spike result. MSD	RPD is 57555 Date An QC Pre 3 ult 2 r RPD is Mg/Kg RPD is IS N	halyzed: paration: Units mg/Kg based on Dil. 20 based on MSD	2008-04- 2008-04- Dil. 20 the spike a Spike Amount 10.0 the spike a	29 29 29 29 29 29 29 29 29 20 10.0 10.0 10.0 Matrix Result 240 and spike	Ma t Re duplicate Rec. 730 duplicate Spike	atrix sult 40 result. Re Lin 40.1 - result. MS	Anal Prep Rec. 320 c. hit 154	yzed By ared By 40 RPD 14	r: MT Rec. Limit 0.1 - 154 RPD Limit 20 Rec.
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param Percent recovery is based on the Param Param Percent recovery is based on the Surrogate	ked Sample: 1 ked Sample: 1 MSD Result 3 313 e spike result. MSD Result 3 Result 3 Result 3 Result 3 Result 3 Result. MResult	RPD is 57555 Date Ai QC Pre 3 alt 2 r RPD is <u>Units</u> <u>mg/Kg</u> RPD is I Sult R	halyzed: paration: Units mg/Kg based on Dil. 20 based on MSD cesult	2008-04- 2008-04- Dil. 20 the spike a Spike Amount 10.0 the spike a Units	29 29 29 29 10.0 10.0 10.0 Matnix Result 240 .nd spike Dil. 4	Ma t Rec duplicate Rec. 730 duplicate Spike Amount	atrix sult 40 result. Re Lin 40.1 - result. MS Rec.	Anal Prep Rec. 320 c. nit 154 MSI Rec	yzed By ared By 40 RPD 14 D.	r: MT Rec. Limit 0.1 - 154 RPD Limit 20 Rec. Limit
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the Param GRO Percent recovery is based on the Courrogate Chifuorotoluene (TFT)	MSD Result A Spike result. MSD Result 3 313 e spike result. MRSD Result 3 113 e spike result. MRSD Result 3 113 e spike result.	RPD is 57555 Date An QC Pre 3 alt 2 r RPD is mg/Kg RPD is 1 is N sult R 12	halyzed: paration: Units mg/Kg based on Dil. 20 based on MSD cesult 1.13	2008-04- 2008-04- Dil. 20 the spike a Spike Amount 10.0 the spike a Units mg/Kg	29 29 29 29 and spike Matrix Result 240 and spike Dil. 4 20	Ma t Re duplicate Rec. 730 duplicate Spike Mount 1	atrix sult 40 result. Re Lin 40.1 - result. MS Rec. 112	Anal Prep Rec. 320 c. iit 154 MSI Rec 113	yzed By ared By 40 RPD 14	r: MT Rec. Limit 0.1 - 150 Limit 20 Rec. Limit .6 - 155
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the Param GRO Percent recovery is based on the Compare Parameter (TFT) -Bromofluorobenzene (4-BFB)	MSD Result MSD Result 3 313 e spike result. MSD Result 3 113 e spike result. MSD Result 3 115 B A 15 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A	RPD is 57555 Date An QC Pre Sult 2 r RPD is Mg/Kg RPD is IS Nult R 12 .3	halyzed: paration: Units mg/Kg based on Dil. 20 based on MSD tesult 1.13 24.1	2008-04- 2008-04- 2008-04- Dil. 20 the spike a Spike Amount 10.0 the spike a Units mg/Kg mg/Kg	29 29 29 Amoun 10.0 und spike Matrix Result 240 nd spike Dil. 4 20 20	Ma t Re duplicate Rec. 730 duplicate Spike Amount 1 1	atrix sult 40 result. Re Lin 40.1 - result. MS Rec. 112 1530	Anal Prep <u>Rec.</u> 320 c. iit 154 MSI Rec 113 2410	yzed By ared By 40 <u>RPD</u> 14 0	<ul> <li>MT</li> <li>Rec.</li> <li>Limit</li> <li>1 - 15⁴</li> <li>RPD</li> <li>Limit</li> <li>20</li> <li>Rec.</li> <li>Limit</li> <li>.6 - 155</li> <li>.1 - 176</li> </ul>
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the Param GRO Percent recovery is based on the Surrogate Crifluorotoluene (TFT) -Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spile	he spike result. ked Sample: 1 MSD Result 3 313 e spike result. MSD Result 3 313 e spike result. MSD Result 3 313 1.7 4 5 15 1.5 1.5	RPD is 57555 Date Ai QC Pre S ult 2 r RPD is Mg/Kg RPD is IS Nult R 12 .3	halyzed: paration: Units mg/Kg based on Dil. 20 based on MSD cesult 1.13 24.1	2008-04- 2008-04- 2008-04- Dil. 20 the spike a Spike Amount 10.0 the spike a Units mg/Kg mg/Kg	29 29 29 29 29 29 29 20 20 20 20	Ma t Rec duplicate Rec. 730 duplicate Spike Amount 1 1	atrix sult 40 result. Re Lin 40.1 - result. MS Rec. 112 1530	Anal Prep Rec. 320 c. iit 154 MSI Rec 113 2410	yzed By ared By 40 <u>RPD</u> 14 0	r: MT Rec. Limit 0.1 - 154 RPD Limit 20 Rec. Limit .6 - 155 .1 - 170
Percent recovery is based on the Matrix Spike (MS-1) Spi QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based on the Param Percent recovery is based on the Percent reco	MS Result MSD Result $\frac{2}{277}$ e spike result. MSD Result $\frac{3}{313}$ e spike result. MSD Result $\frac{3}{313}$ e spike result. Magnetic for the second seco	RPD is 57555 Date An QC Pre 3 ult 2 r RPD is mg/Kg RPD is 10 Sult R 12 3	halyzed: paration: Units mg/Kg based on Dil. 20 based on MSD tesult 1.13 24.1	2008-04- 2008-04- Dil. 20 the spike a Spike Amount 10.0 the spike a Units mg/Kg mg/Kg	29 29 29 29 29 29 29 20 20 20 20	Ma t Re duplicate Rec. 730 duplicate Spike Mount 1 1	atrix sult 40 result. Re Lin 40.1 - result. MS Rec. 112 1530	Anal Prep Rec. 320 c. iit 154 MSI Rec 113 2410	yzed By ared By 40 RPD 14 0	r: MT Rec. Limit 0.1 - 15: Limit 20 Rec. Limit .6 - 155 .1 - 176

(Clark)

**BETER** 

CIER

Res 2

STATES

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁵Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

M Re 2 he spike result 284 he spike result (S MS sult Result 32 13 iked Sample: iked Sample: MR c spike result MSD	MS esult 279 t. RPD is mg/Kg t. RPD is 5D ult 2 n 158068 Date A QC Pre 1S sult 22 1	Units mg/Kg based on Dil. g 1 based on Units mg/Kg units eparation: Units mg/Kg	Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2008-04-3 2008-04-3 2008-04-3	Spike Amount 250 and spike du Matrix Result <6.77 and spike du Spike Amount 100 30 30	Ma Re oplicate Rec. 114 plicate M Re 13	ttrix sult .77 result. fo.7 result. Ssc. 32	Rec. 112 ec. 134 MSD Rec. 132 Anal Prep	EPD 2 49 yzed By ared By	Rec. Limit 17 - 13 RPI Limi 20 Rec. Limit .5 - 18 : RG
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M Res 52 ne spike result MSD	1S sult 22 1	Units mg/Kg	10.1	Spike					: КС
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55 ne spike result MSD	22 I	mg/Kg	Dn.	Amount	Res	sult	Rec.	I	Limit
e spike result MSD	BPD is		10	500	23	3.1	100	76.	.4 - 12
MSD		based on	the spike a	nd spike du	plicate	result.			
			Spike	Matrix		Re	c.		RPI
Result	Units	Dil.	Amount	Result	Rec.	Lin	nit	RPD	Limi
508	mg/Kg	; 10	500	23.1	97	76.4 -	123	3	20
	Date A	nalyzed:	2008-04-29	I			Anal	yzed By:	: AR
	ICVs	IC	Vs	ICVs		Percer	ıt		
	True	For	und	Percent		Recove	ery	Γ	Date
Units	Conc.	Co	onc.	Recovery		Limit	s	Ana	alyzed
ng/Kg	100		9.8	100		85 - 11	15	2008	3-04-2
	Date Ar	nalyzed:	2008-04-29				Analy	zed By:	AR
	CCVs	CC	CVs	CCVs		Percer	ıt		
	True	For	und	Percent		Recove	ry	E	)ate
Units	Conc.	Co	nc.	Recovery		Limit	S	Ana	alyzed
4.00	100	10	00	100		85 - 11	.5	2008	3-04-29
t	Jnits g/Kg	Date Ar CCVs True Jnits Conc. g/Kg 100	Date Analyzed: CCVs CC Inits Conc. Co g/Kg 100 10	Date Analyzed: 2008-04-29 CCVs CCVs True Found Juits Conc. Conc. g/Kg 100 100	Date Analyzed: 2008-04-29 CCVs CCVs CCVs True Found Percent Jnits Conc. Conc. Recovery g/Kg 100 100 100	Date Analyzed: 2008-04-29 CCVs CCVs CCVs True Found Percent Jnits Conc. Conc. Recovery g/Kg 100 100 100	Date Analyzed: 2008-04-29 CCVs CCVs CCVs Percer True Found Percent Recove Juits Conc. Conc. Recovery Limit g/Kg 100 100 100 85 - 11	Date Analyzed: 2008-04-29 CCVs CCVs CCVs Percent True Found Percent Recovery Jnits Conc. Conc. Recovery Limits g/Kg 100 100 100 85 - 115	g/ kg10033.510035.41152000Date Analyzed:2008-04-29Analyzed By:CCVsCCVsCCVsPercentTrueFoundPercentRecoveryDJnitsConc.Conc.RecoveryLimitsg/Kg10010010085 - 1152005

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3376	April 30, 20	008	Ŵc OX [*]	örk Order: 8042 Y/Dimaggio #1	2515 1 TB	Page N Ee	lumber: 13 of 1 ddy County, Ni
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	104	104	85 - 115	2008-04-2
Standard (CC	V-1)						
QC Batch: 478	, 399		Date Anal	yzed: 2008-04	-29	Anai	lyzed By: AR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc	Recovery	Limits	Analyzer
Chloride		mg/Kg	100	95.9	96	85 - 115	2008-04-2
Standard (ICV	V-1)						
QC Batch: 479	23		Date Analy	yzed: 2008-04-	-29	Anal	yzed By: MI
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0927	93	85 - 115	2008-04-2
Toluene		mg/Kg	0.100	0.0910	91	85 - 115	2008-04-2
Ethylbenzene		mg/Kg	0.100	0.0917	92	85 - 115	2008-04-2
Xylene		mg/Kg	0.300	0.275	92	85 - 115	2008-04-2
Standard (CC)	V-1) 23		Date Analy	17ed 2008-04-	90	۵nah	ved By: MT
go Daten. 415	20		Date mary	Zeu. 2003-04-	25	Anaij	Zed Dy. MI
			$\mathrm{CCVs}$	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0935	94	85 - 115	2008-04-2
foluene		mg/Kg	0.100	0.0925	92	85 - 115	2008-04-2
Sthylbenzene		mg/Kg	0.100	0.0929	93	85 - 115	2008-04-2
Cylene		mg/Kg	0.300	0.279	93	85 - 115	2008-04-2
	<b>'-1</b> )						
Standard (ICV			Date Analy	zed: 2008-04-	29	Analy	zed By: MT
Standard (ICV QC Batch: 4792	24					Democrat	
Standard (ICV 2C Batch: 4792	24		ICVs	ICVs	ICVs	rercent	
Standard (ICV QC Batch: 479:	24		ICVs True	ICVs Found	ICVs Percent	Recovery	Date
Standard (ICV )C Batch: 479: 'aram F	24 lag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Recovery Limits	Date Analyzed
Standard (ICV QC Batch: 479: Param F RO	24 'lag	Units mg/Kg	ICVs True Conc. 1.00	ICVs Found Conc. 0.920	ICVs Percent Recovery 92	Recovery Limits 85 - 115	Date Analyzed 2008-04-29
Standard (ICV 2C Batch: 479: 2aram F 3RO tandard (CCV	24	Units mg/Kg	ICVs True Conc. 1.00	ICVs Found Conc. 0.920	ICVs Percent Recovery 92	Recovery Limits 85 - 115	Date Analyzed 2008-04-29

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Report Da 3376	te: April 30,	2008	W 02	ork Order: 804 Y/Dimaggio #	2515 1 TB	Page N Ed	umber: 14 of 14 ldy County, NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.954	95	85 - 115	2008-04-29
Standard	(ICV-1)						
QC Batch:	47932		Date Ana	lyzed: 2008-0	4-29	Anal	yzed By: RM
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO	<u>v</u>	mg/Kg	250	256	102	85 - 115	2008-04-29
QC Batch:	47932		Date Ana	lyzed: 2008-04	4-29	Anal	yzed By: RM
			CCVs	CCVs	CCVs	Percent	
<b>D</b>	<b>E</b> 1	¥ T., 14 .	True	Found	Percent	Recovery	Date
DRO	r tag	mg/Kg	250	271	108	85 - 115	2008-04-29
Standard	(ICV-1)						
QC Batch:	47954		Date Ana	lyzed: 2008-04	4-30	Anal	yzed By: RG
2		TT . ' ( -	ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
aram Chloride	Flag	Units	<u> </u>		100	Limits	2008-04-30
Standard (	(CCV-1)	<u> </u>	Date Ana	100 1vzed: 2008-04	1.30	<u> </u>	ward By: BG
go Baten.	1701		GOU	agu agu		Tinar,	yzeu by. Ro
			CCVs True	CCVs Found	CCVs Percent	Percent Recoverv	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.9	100	85 - 115	2008-04-30

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# LAB ANALYSIS MAY 29, 2008

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### **Summary Report**

Ike Tavarez Highlander Environmental Services 1910 N. Big Spring Street Midland, TX, 79705

Report Date: May 29, 2008

Work Order: 8052235

Project Location:	Eddy County, NM
Project Name:	OXY/Dimaggio TB
Project Number:	3376

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
160960	#2 8.0'	soil	2008-05-19	00:00	2008-05-22
160961	#2 10.0'	soil	2008-05-19	00:00	2008-05-22

### Sample: 160960 - #2 8.0'

Param	Flag Re	esult	Units	$\mathbf{RL}$
Chloride	1	1500 m	ng/Kg 2	2.00

#### Sample: 160961 - #2 10.0'

Param	Flag	Result	$\mathbf{Units}$	$\operatorname{RL}$
Chloride		681	mg/Kg	2.00

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

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67(11 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

l ubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79923 Ft. Worth, Texas 76132 E-Mail lab@traceanalysis.com 
 806 • 794 • 1296
 I AX 806 • 794 • 1298

 915 • 585 • 3443
 FAX 915 • 585 • 4944

 432 • 689 • 6301
 FAX 432 • 689 • 6313

 817 • 201 • 5260

Analytical and Quality Control Report

Ike Tavarez Highlander Environmental Services 1910 N. Big Spring Street Midland, TX, 79705

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Report Date: May 29, 2008

Work Order: 8052235

Project Location:Eddy County, NMProject Name:OXY/Dimaggio TBProject Number:3376

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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
160960	#2 8.0'	soil	2008-05-19	00:00	2008-05-22
160961	#2 10.0'	soil	2008-05-19	00:00	2008-05-22

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

Dr. Blair Leftwich, Director

Certifications

Lubbock - NELAP T104704219-08-TX El Paso - NELAP T104704221-08-TX

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

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### **Case Narrative**

Samples for project OXY/Dimaggio TB were received by TraceAnalysis, Inc. on 2008-05-22 and assigned to work order 8052235. Samples for work order 8052235 were received intact at a temperature of 3.2 deg C.

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

Test	Method
Chloride (Titration)	SM 4500-Cl B

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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 8052235 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: May 29, 2008 3376

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# **Analytical Report**

Sample: 160960 - #2 8.0'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 48805 41939	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2008-05-28 2008-05-22	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		1500	mg/Kg	50	2.00

### Sample: 160961 - #2 10.0'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 48830 41963	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2008-05-28 : 2008-05-28	Prep Method: Analyzed By: Prepared By:	N/A AR AR
	·	RL			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		681	mg/Kg	50	2.00

Method Blank	(1)	QC Batch:	48805
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QC Batch: 48805 Prep Batch: 41939		Date Analyzed: 2008-05-28 QC Preparation: 2008-05-22		Analyzed By: Prepared By:	AR AR
Paramatar	Flag	MDL Besult	Units		RT.
Chloride	<u>I lag</u>	<0.500	mg/Kg		2
Method Blank (1)	QC Batch: 48830				
QC Batch: 48830 Prep Batch: 41963	-	Date Analyzed: 2008-05-28 QC Preparation: 2008-05-22		Analyzed By: Prepared By:	AR AR

		MDL		
Parameter	$\mathbf{Flag}$	$\mathbf{Result}$	Units	$\mathbf{RL}$
Chloride		< 0.500	mg/Kg	2

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Report Date: May 29, 2008 3376		Work Or OXY/D	der: 805223 imaggio TB	35 3	<u>_,,</u> ,,,	Pa	ge Numl Eddy Co	ber: 5 of ounty, NM
Laboratory Control Spike	e (LCS-1)							
QC Batch: 48805 Prep Batch: 41939	D Q	ate Analyzed: C Preparation:	2008-05-2 2008-05-2	28 22		Aı Pı	nalyzed 1 repared 1	By: AR By: AR
D	LCS	TT . ' .	<b>D</b> .1	Spike	Ma	trix		Rec.
Chloride		mg/Kg	<u>Dii.</u>	Amount 100		$\frac{1}{500}$	$\frac{1}{99}$	$\frac{1}{85 - 11}$
Percent recovery is based on	the spike result. RI	PD is based on	the spike as	nd spike du	plicate re	esult.		
_	LCSD		Spike	Matrix	_	Rec.		RPL
Param	Result	Units Dil.	Amount	Result	<u>Rec.</u>	Limit	$\frac{RPD}{2}$	Limi
Democrate reservence is based on	102 II	1g/Kg I	100	<0.500	102	85 - 115	3	20
reicent recovery is based on	the spike result. Ar	D is based on	the spike a	ia spike auj	plicate re	suit.		
Laboratory Control Spike	(LCS-1)							
QC Batch: 48830	Da	te Analvzed:	2008-05-2	8		An	alvzed E	Bv: AR
Prep Batch: 41963	Q	C Preparation:	2008-05-2	2		$\Pr$	epared E	By: AR
_	LCS			Spike	Mat	rix		Rec.
Param	Result	Units		Amount	Res	$\frac{\text{ult}}{500}$ 1	lec.	Limit
Percent recovery is based on t	the spike result. RP	D is based on	the spike an	nd spike dur	$\frac{\langle 0.0}{ }$	sult.	.01	0.0 - 110
	LCSD		Spike	Matrix		Bec		BDL
Param	Result U	Jnits Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	103 m	g/Kg 1	100	< 0.500	103	85 - 115	2	20
Percent recovery is based on t Matrix Spike (MS-1) Sp	the spike result. RP	D is based on t	the spike an	ıd spike dur	olicate re	sult.		
20 Batch: 48805 Prep Batch: 41939	Da QC	te Analyzed: Preparation:	2008-05-22 2008-05-22	2		An Pre	alyzed B epared B	y: AR y: AR
<b>Do mo mo</b>	MS Basselt	T:40	וימ	Spike	Mat	rix		Rec.
Chloride		mg/Kg	50	5000		.34 9	.ec. 98	85 - 115
Percent recovery is based on t	he spike result. RP	D is based on t	he spike an	d spike dup	licate re	sult.		
·	MSD		Spike	Matrix		Rec.		RPD
				D	<b>D</b>	T · ·	חחח	T :
Param	Result U	nits Dil.	Amount	Result	Rec.	Limit	RPD	Limit

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Report Date 3376	e: May 29, 2	008		Work Ord OXY/Di	ler: 805223 maggio TE	5		Pa I	ge Numbe Eddy Cou	er: 6 of nty, NM
Matrix Spi	ke (MS-1)	Spiked Sample:	161252							
QC Batch: Prep Batch:	48830 41963		Date A QC Pro	nalyzed: eparation:	2008-05-2 2008-05-2	28 22		An Pro	alyzed By epared By	y: AR v: AR
		Ν	1S			Spike	Ma	trix		Rec.
Param		Re	sult	Units	Dil.	Amount	Re	sult R	lec.	Limit
Chloride	<u> </u>	13	700	mg/Kg	50	5000	86	12 1	.02	85 - 118
Percent recov	very is based	on the spike result	. RPD is	based on t	the spike a	nd spike du	olicate r	esult.		
_		MSD			Spike	Matrix	_	Rec.		RPD
Param	·····	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	- <u></u>	13800	mg/K	g 50	5000	8612	104	85 - 115	1	20
QC Batch:	, 48805		Date A:	nalyzed:	2008-05-28			An	alyzed By	: AR
			ICVs	IC	Vs	ICVs		Percent		
_			True	Fou	ınd	Percent	I	Recovery		Date
Param	Flag	Units	Conc.	Coi	nc.	Recovery		Limits	An	alyzed
Standard (C	CCV-1)	,	Date Ar	nalvzed: (	2008-05-28			An	alvzed By	· AR
go Baten.	10000			iuryzeu. z	2000 00 20			1110	ary zee Dy	
			CCVs	CC	Vs	CCVs		Percent		<b>,</b> ,
Daram	Flag	Unite	Conc	Fou	nd	Percent	r	Lecovery	l An	Jate
Chloride	Tiag	mg/Kg	100	10	$\frac{10.}{0}$	100	{	<u>35 - 115</u>	200	8-05-28
Standard (I QC Batch: 4	CV-1) 18830		Date Ar	nalyzed: 2	2008-05-28			Ana	alyzed By	: AR
			ICVs [,]	ICV	/s	ICVs	]	Percent		
			True	Fou	nd	Percent	R	lecovery	I	Date
Param	Flag	Units	Conc.	Cor	1C.	Recovery		Limits	An	alyzed
Chloride		mg/Kg	100	99.	3	99		35 - 115	200	8-05-28
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Report Date 3376	e: May 29, 20	08	W C	ork Order: 805 XY/Dimaggio	Page Number: 7 of 7 Eddy County, NM				
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed		
Chloride		mg/Kg	100	101	101	85 - 115	2008-05-28		

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## APPENDIX C FORM C-141

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	District I 1625 N. French Dr., Hobbs, NM 88240	State of	New Mex	tico A Resources		Davi	Form C-141
	1301 W. Grand Avenue, Artesia, NM 88210 District III					Submit 2 Co	voies to enpropriate
	1000 Rio Brazos Road, Aztec, NM 87410	1220 South	vation Di	Vision		District O	ffice in accordance
ß	1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe	= 131.  Mathematical set  131.  Mathemati	505		witt	side of form
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<b>67</b> 1			OPERA	TOR	🖸 Initia	l Report	Final Repor
1.1.1	Name of Company Pogo Producing Co.		Contact	PAT Ellis			
	Address P.O. Box 10340 Midland, Tx Facility Name D: Magaio Tauk Batter	79702	Facility Type	NO. (432) 60 De Tank R.	<u> 15-8100</u>		
	Surface Owner	neral Owner			Lease N	0 0/04-	1800
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	Was Immediate Notice Given?		If YES, To	Whom? /2-7	· 07 11:45	AM	
لينية التعري		Not Required	BLM	Cerry Guy	12-7-07	12:15 P 12:15 F	M 2M
	Was a Watercourse Reached?		If YES, Vo	olume Impacting th	e Watercourse.	1	<u></u>
	Yes V No						, • 
	If a Watercourse was Impacted, Describe Fully.*						- 27° .
	Describe Cause of Problem and Remedial Action Taken." D:1 production being produced t plugged up And Allowed 40 882	o oil tai s of oil	nk, ta to ov	rk filled u erflow.	p And eq	unlizin	g line
	Describe Area Affected and Cleanup Action Taken.*		. / 7/	- PRIC . f	sil Ray	6/	
	VACUUM truck WAS CAlled ANA utilized to pick up And temore Will take soil samples And re	recover Satura: View for	ted so. K Glosu	BOLS OF 1. Highlan TC WORKS	0.1. BALI Nder Envi IAn.	KADE W KONATENT	ha l
	I hereby certify that the information given above is true and regulations all operators are required to report and/or file of public health or the environment. The acceptance of a C-1 should their operations have failed to adequately investigat or the environment. In addition, NMOCD acceptance of a federal, state, or local laws and/or regulations.	1 complete to the ertain release no 41 report by the e and remediate C-141 report do	e best of my tifications a NMOCD m contaminations not reliev	knowledge and un ad perform correcti arked as "Final Rep on that pose a threa the operator of re	derstand that pursu ve actions for relea port" does not relie t to ground water, sponsibility for con	ant to NMOC ases which m ve the operat surface wate mpliance with	CD rules and ay endanger or of liability r, human health h any other
	Signature: Octunit I. Elio			OIL CONS	ERVATION I	DIVISION	
<u> </u>	Printed Name: PATRICK L. Ellis	/	pproved by	District Supervisor	: 	····	
	Title: EH+S Supervisor		pproval Dat	e:	Expiration D	ate:	
	E-mail Address: e/lisp @ pogo producing . G (432) Date: /-22-08 Phone: 695-8	0M (	Conditions of	Approval:		Attached [	
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