

RECEIVED

AUG 1 0 ZU10 HOBBSOCD

Stephen Gwin HES Waste & Water Specialist Chevron North America Exploration and Production Mid Continent Business Unit 15 Smith Rd Midland, Texas 79705 Tel 432-687-7575 Fax 866-569-5650 GWST@chevron.com

August 5, 2010

Mr. Geoffrey R. Leking Environmental Engineer Specialist Oil Conservation Division–District 1 1625 N. French Drive Hobbs, New Mexico 88240

RE: Closure request for Lovington San Andres Unit #25 Spill, Unit Letter O, Section 36, Township 16 South, Range 36 East, Lea County, New Mexico, Operated by Chevron USA, Lease No. B1505. RP #1504

Chevron USA is submitting this closure plan for your consideration. Tetra Tech was contracted to perform the site inspection and sampling of the spill area. Based on the Tetra Tech's site inspection, sample and associated closure request document, Chevron is proposing to cap the previously excavated area (approximately 4 feet). A 20 mil liner will be placed in the excavated area and then be backfilled with clean soil. BLM #2 seed mix will then be applied to the clean soil to establish vegetation.

If you have any questions or need additional information please call me at 432-687-7575.

Stephen Gwin Chevron USA Inc. Environmental Specialist Midland, TX

approved by Seeff Schinz Enveronmental Engineer NMUCD-HOLPS 08/10/10 Per Condition that clean " Jr. found in additional vertical sampling

SITE INFORMATION

		SI	FE INFORMA	TION				
Report Type:	CLOSURE	REQUEST			RP #1504			
General Site Info	ormation: 😳	.						
Site:		Lovington Sa	an Andres Unit #2	25	RECEIVED			
Company:		Chevron US						
Well Location:		Section 36,T	16S,R36E		AUC 10 2010			
Unit Letter:		Unit O			<u>AUC-1 0 2010</u>			
API		3002503782			HOBBSOCD			
Lease Number:		B1505						
County:		Lea						
Spill GPS:		32.87259 10	03.30660					
Surface Owner: City of Loving		ton						
Mineral Owner:		State of New	Mexico					
Directions: North of Hobbs,N		IM at the intersection o	f 18 and CR 7	8 (Stiles RD). Go North on 18 for 1.6 miles,				
				· · · · · · · · · · · · · · · · · · ·	outh) location on right (east) side of Road.			
			ng The start of the start of the	Spel - Barrow - Service - 19				
Date Released:		7/24/2007						
Type Release:		produced wat	er					
Source of Contar	nination:	injection trunk	line leak					
Fluid Released:		20 BW	20 BW					
Fluids Recovered:		0.5						
Official Commu	nication:							
Name:	Steve Gwin				Ike Tavarez			
Company:	Chevron USA	· · · · · · · · · · · · · · · · · · ·	1		Tetra Tech			
Address:	15 Smith Roa				1910 N. Big Spring			
P.O. Box	10 0/1//1/104							
City:	Midland Texa			······	Midland, Texas			
Phone number:	(432) 687-757	75			(432) 682- 4559			
Fax:	(866) 569-595	50						
Email:	gwst@chevr	on.com			ike,tavarez@tetratech.com			
Ranking Criteria					analas (se da saite da saite			
Depth to Groundw	ater:	······	Ranking Score	ļ	Site Data			
<50 ft			20					
50-99 ft			10					
>100 ft		- · · · · · · · · · · · · · · · · · · ·	10	I				
WellHead Protecti	<u></u>		Ranking Score	r	Site Data			
Water Source <1,0		200 ft.	20		None			
Water Source >1,0			0					
<i></i>				L	······································			
Surface Body of W	/ater:		Ranking Score		Site Data			
<200 ft.			20		None			
200 ft - 1,0 <mark>00 ft.</mark>			10		None			
>1,000 ft.			0					
Tota	Ranking Sco	ore:	10		٨			
	-	Accepta	ble Soil RRAL (m	g/kg)				
		Benzene	Total BTEX	TPH				
		10	50	1,000				



August 2, 2010

Mr. Larry Johnson Environmental Engineer Specialist Oil Conservation Division- District I 1625 N. French Drive Hobbs, New Mexico 88240

RE: Closure Request for the Spill at the Lovington San Andres Unit #25 Well, Unit Letter O, Section 36 Township 16 South, Range 36 East, Lea County, New Mexico, Operated by Chevron USA, API 3002503782 RP #1504

Dear Mr. Johnson:

Tetra Tech was contacted by Chevron USA (Chevron) to collect samples (assess) the excavated area from an injection trunk line leak at the Lovington San Andres Unit #25 Well, located in Unit Letter O, Section 36, Township 16 South, Range 36 East, Lea County, New Mexico. The site coordinates are N 32.87259°, W 103.30660°.The Site location is shown on Figures 1 and 2.

Background

As reported in the C-141 (Initial), the spill was discovered on July 24, 2007. The spill occurred at a 2" high pressure fiberglass line, which had a small cracked from an improper installation of the pipe. A total of 20 barrels of produced water were released and 0.5 barrels were recovered. On July 26, 2007, Chevron excavated the impacted soils and transported the soils to proper disposal. The spill area was excavated to a depth of approximately 3.0' to 4.0' below surface. The impacted area measured approximately 50' diameter in the pasture east of the lease road. The initial C-141 is shown in Appendix A.



Groundwater and Regulatory

The Site is located in Section 36, Township 16 South, Range 36 East. There are numerous water wells in the vicinity of this site. Both the USGS database and the State of New Mexico Well Reports show water wells throughout Township 16 South, Range 37 East. The average depth to water is shown in Appendix A. Based upon the well information acquired, the depth to groundwater at the site was determined to be greater than 50' below surface.

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 1,000 mg/kg.

Site Inspection and Sampling

On July 15, 2010, Tetra Tech personnel inspected the excavated spill area. A total of five (5) auger holes were installed in the bottom of the excavation and sidewall samples were collected from the excavation. During the installation of the auger holes, deeper samples were not collected due to the dense formation at the bottom. Soil samples were submitted to Trace Analysis for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The sampling results are summarized in Table 1.

Referring to Table 1, all of the samples were below the RRAL for TPH and BTEX. The chloride concentrations were all below reporting limit (<200 mg/kg) on the bottom of the excavation. All sidewall samples were below the reporting limit, except for SW-7, which showed a chloride concentration of 484 mg/kg.

Closure Request /Soil Capping

Based on the results, Chevron requests closure of site. As an added precautionary measure, prior to backfilling the excavation, Chevron proposes to cap the excavated area with a 20 mil liner. The cap will be installed



approximately 4.0' below surface and backfilled with clean soil. If approved, Chevron will submit a final C-141 after the cap and backfilling is completed at the site.

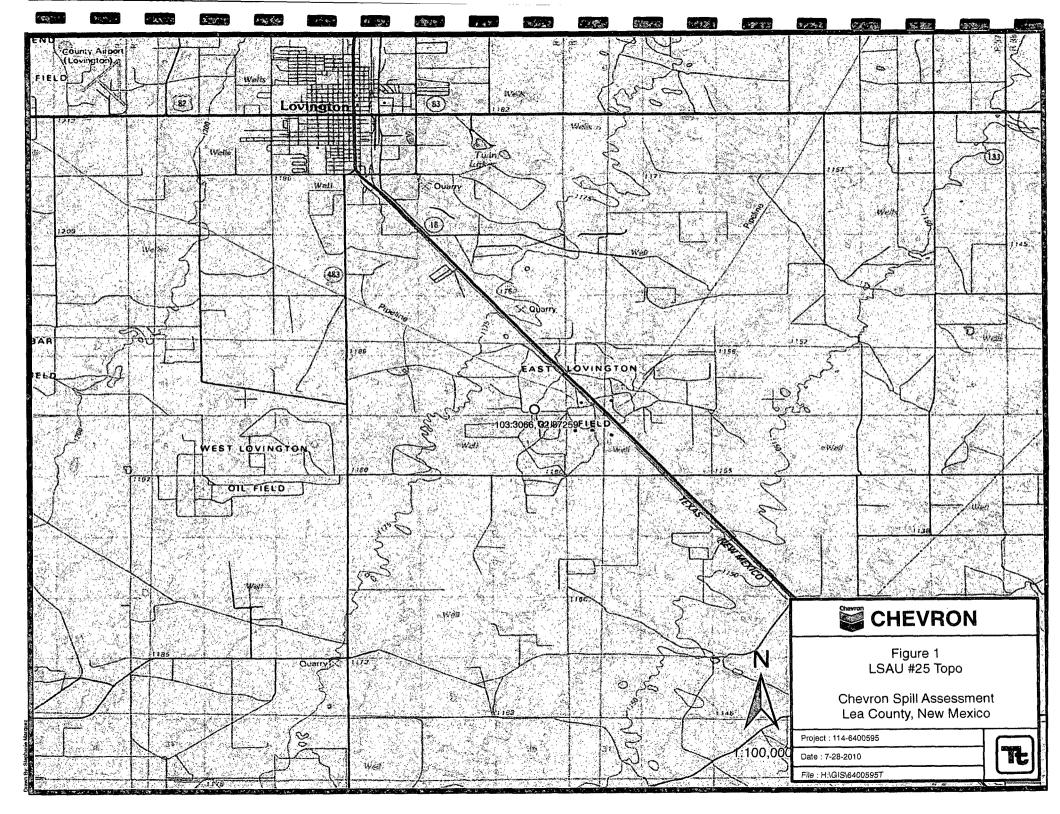
If you require any additional information or have any questions or comments, please call.

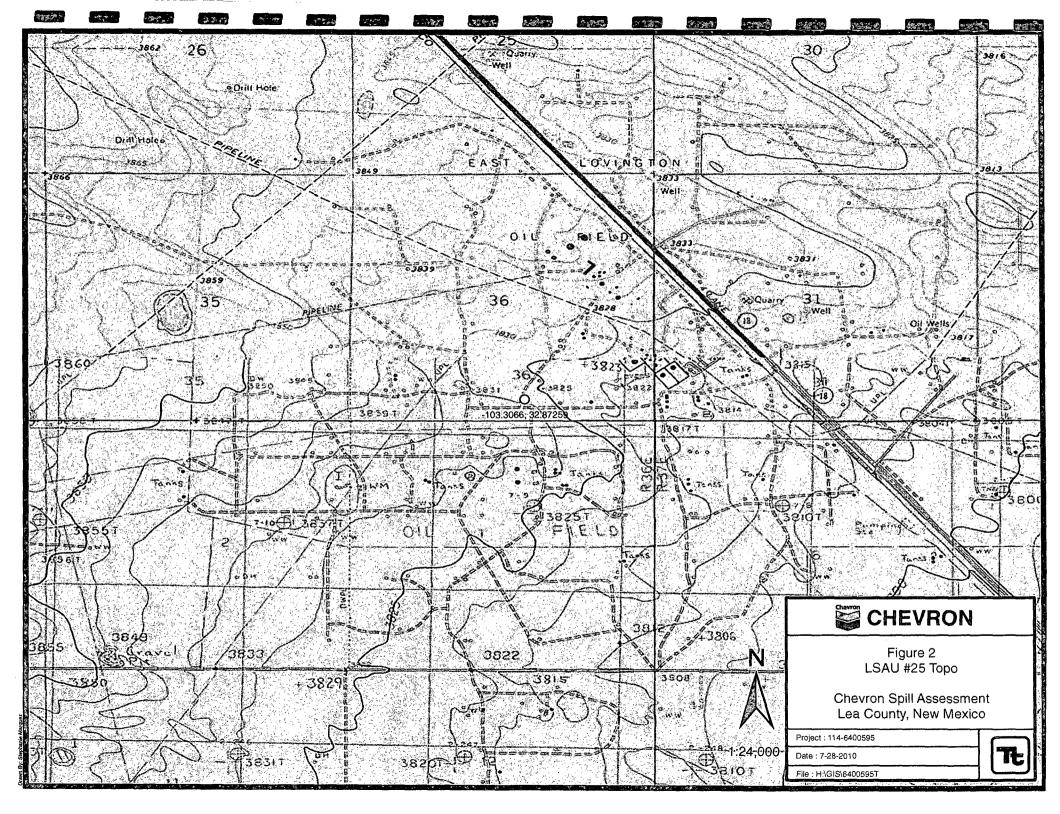
Tetra/Tech lke Tavarez, P.G.

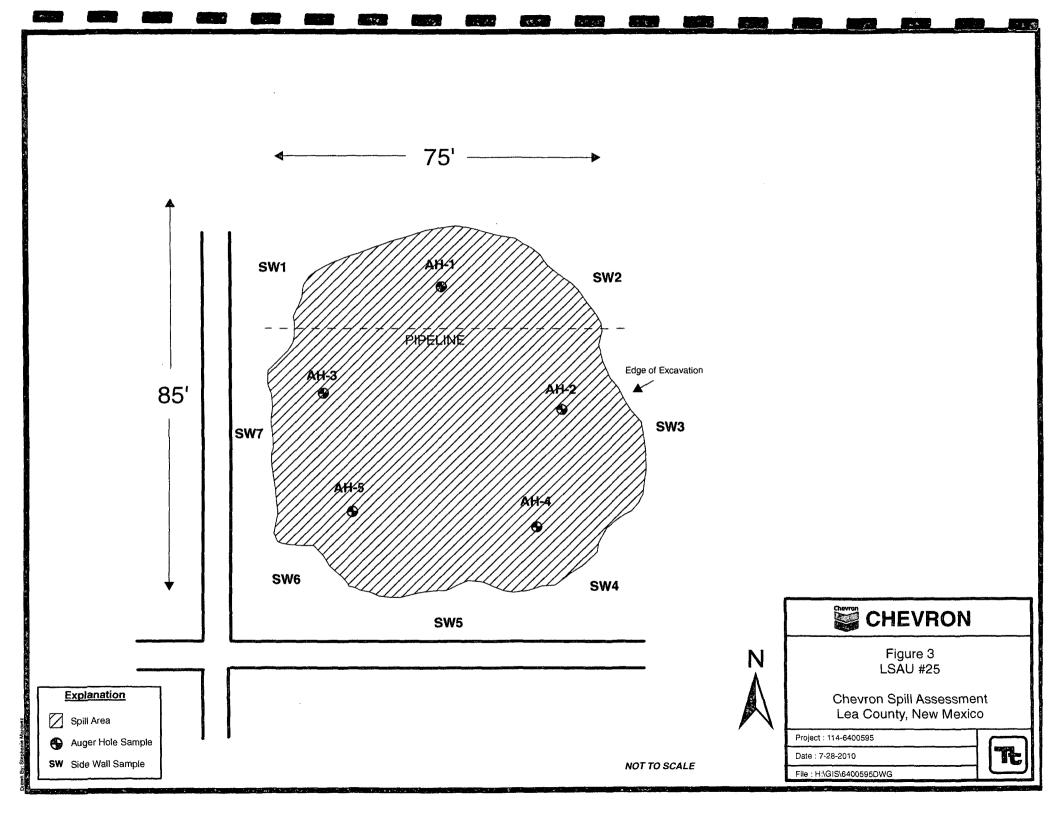
Project Manager

cc: Chevron USA - Steve Gwinn

FIGURES







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TABLE

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Table 1 Chevron USA LSAU #25 LEA COUNTY, NEW MEXICO

. AUE '96.

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Sample	Sample	Sample	Sample	Soi	Status	TP	H (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
D	Date	Depth (ft)	Location	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	7/15/2010	0-1'	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
AH-2	7/15/2010	0-1'	bottom	x		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
	7710/2010	0-1	Dottom				<00.0	~00.0		<u> </u>			
AH-3	7/15/2010	0-1'	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
	7/15/2010	1-1.5	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
AH-4	7/15/2010	0-1'	bottom	x		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
AH-5	7/15/2010	0-0.5	bottom	x		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
SW1	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	213
SW2	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<400
SW3	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
SW4	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<400
SW5	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
SW6	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
SW7	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	484

SW - sidewall samples

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APPENDIX A

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Water Well Data Average Depth to Groundwater (ft) Chevron USA Lovington San Andres Unit #25

		16	Şc	outh	36	East			
6		5		4 	3	2		1	
7		8		9 J Lovi i	10 ngton	11		12	
18		17		16	15	14		13	
54									
19		20		21 70	22 63	23 70		24	55
		70			63	61			_
30	82	29		28	27	26 6	53	25	68
								52	
31	74	32	65	33	34	35 4	11	3 S	ite
								65	70

a arida

	16 S	outh	37	East	
6	5	4	3	2	1
7 66	8	9	10	11 80	12
18	17	16	15	14	13
19 55 82	20 44	21 50	22	23	24
30 52 60	29 44	28 34	27 73	26	25 70
31 72 55	32 38	33 60	34 60	35	36

	16	South		38 East	
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

	17 Sc	outh	36	East	
6 50	5	4 65	3	2 60	183
			60	69	74
7	8	9	10	11	12 44
			43		46
18	17	16	15	14 48	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

		17 Sc	outh	37	' East	
6	75	5 57	4 40	3 60	2	1
		50		55	67	51
7	65	8	9 42	10 70	11	12
		50 68		64		
18		17	16	15	14	13
				L	ļ	L
19		20	21	22	23	24
				07		25
30		29	28	27	26	25
31		32	33	34	35	36

	17 Se	outh	38	East	
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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

34 NMOCD - Groundwater Data

APPENDIX B

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Report Date: July 20, 2010

Page Number: 1 of 3

Summary Report

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

Report Date: July 20, 2010

Work Order: 10071915

Project Location:Lea County, NMProject Name:LSAU #25Project Number:114-6400595

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
237996	SW1	soil	2010-07-15	00:00	2010-07-19
237997	SW2	soil	2010-07-15	00:00	2010-07-19
237998	SW3	soil	2010-07-15	00:00	2010-07-19
237999	SW4	soil	2010-07-15	00:00	2010-07-19
238000	SW5	soil	2010-07-15	00:00	2010-07-19
238001	SW6	soil	2010-07-15	00:00	2010-07-19
238002	SW7	soil	2010-07-15	00:00	2010-07-19
238003	AH-1 0-1'	soil	2010-07-15	00:00	2010-07-19
238004	AH-2 0-1'	soil	2010-07-15	00:00	2010-07-19
238005	AH-3 0-1'	soil	2010-07-15	00:00	2010-07-19
238006	AH-3 1-1.5'	soil	2010-07-15	00:00	2010-07-19
238007	AH-4 0-1'	soil	2010-07-15	00:00	2010-07-19
238008	AH-5 0-6 in.	soil	2010-07-15	00:00	2010-07-19

		[BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
237996 - SW1	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	<2.00
237997 - SW2	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	$<\!2.00$
237998 - SW3	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	$<\!2.00$
237999 - SW4	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	<2.00
238000 - SW5	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	$<\!2.00$
238001 - SW6	< 0.0200	< 0.0200	< 0.0200	<0.0200	<50.0	< 2.00
238002 - SW7	< 0.0200	< 0.0200	< 0.0200	<0.0200	<50.0	$<\!2.00$
238003 - AH-1 0-1'	< 0.0200	< 0.0200	< 0.0200	<0.0200	<50.0	$<\!2.00$
238004 - AH-2 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	<2.00
238005 - AH-3 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	< 2.00
238006 - AH-3 1-1.5'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	<2.00
238007 - AH-4 0-1'	< 0.0200	< 0.0200	< 0.0200	<0.0200	<50.0	<2.00

continued ...

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		BTEX			TPH DRO - NEW	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO	
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
238008 - AH-5 0-6 in.	<0.0200	< 0.0200	< 0.0200	<0.0200	<50.0	<2.00	
Sample: 237996 - SW1							
Param	Flag		Result		Units	RI	
Chloride			213		mg/Kg	4.0	
Sample: 237997 - SW2							
Param	Flag		Result		Units	Rl	
Chloride			<400		mg/Kg	4.00	
Sample: 237998 - SW3							
Param	Flag		Result		Units	R	
Chloride			<200		mg/Kg	4.0	
Sample: 237999 - SW4							
Param	Flag		Result		Units	R	
Chloride			<200		mg/Kg	4.0	
Sample: 238000 - SW5							
Param	Flag		Result		Units	R	
Chloride			<400		mg/Kg	4.0	
Sample: 238001 - SW6					·		
Param	Flag		Result		Units	RI	
Chloride			<200		mg/Kg	4.0	

continued ...

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Work Order: 10071915

Page Number: 3 of 3

Param	Flag	Result	Units	RL
Param	Flag	Result	Units	\mathbf{RL}
Chloride	C	484	mg/Kg	4.00
Sample: 238003	- AH-1 0-1'			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		<200	mg/Kg	4.00
Sample: 238004	- AH-2 0-1'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 238005	- AH-3 0-1' Flag	Result <200	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 238006	- AH-3 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 238007	- AH-4 0-1'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 238008 -	- AH-5 0-6 in.			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

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 6701 Aberdeen Avenue, Suite 9
 1

 200 East Suiset Road, Suite E
 1

 5002 Basin Street, Suite A1
 1

 6015 Harris Parkway, Suite 110
 Ft

Lubbock, Texas 79424 800•378•1295 El Paso, Texas 79922 888•588•3443 Midland, Texas 79703 Ft. Worth, Texas 76132 E-Mail: lab@traceanalysis.com

888 • 588 • 3443 915 • 585 • 3443 432 • 689 • 6301 817 • 201 • 5260

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

WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

DBE: VN 20657

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: July 20, 2010

Work Order: 10071915

Project Location:Lea County, NMProject Name:LSAU #25Project Number:114-6400595

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
237996	SW1	soil	2010-07-15	00:00	2010-07-19
237997	SW2	soil	2010-07-15	00:00	2010-07-19
237998	SW3	soil	2010-07-15	00:00	2010-07-19
237999	SW4	soil	2010-07-15	00:00	2010-07-19
238000	SW5	soil	2010-07-15	00:00	2010-07-19
238001	SW6	soil	2010-07-15	00:00	2010-07-19
238002	SW7	soil	2010-07-15	00:00	2010-07-19
238003	AH-1 0-1'	soil	2010-07-15	00:00	2010-07-19
238004	AH-2 0-1'	soil	2010-07-15	00:00	2010-07-19
238005	AH-3 0-1'	soil	2010-07-15	00:00	2010-07-19

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
238006	AH-3 1-1.5'	soil	2010-07-15	00:00	2010-07-19
238007	AH-4 0-1'	soil	2010-07-15	00:00	2010-07-19
238008	AH-5 0-6 in.	soil	2010-07-15	00:00	2010-07-19

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

Michael Ale

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

Standard Flags

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

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Case Narrative

Samples for project LSAU #25 were received by TraceAnalysis, Inc. on 2010-07-19 and assigned to work order 10071915. Samples for work order 10071915 were received intact at a temperature of 3.3 C.

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

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		\mathbf{Prep}	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	61608	2010-07-19 at 16:00	71883	2010-07-19 at 15:44
Chloride (Titration)	SM 4500-Cl B	61617	2010-07-20 at $08:49$	71893	2010-07-20 at 11:54
Chloride (Titration)	SM 4500-Cl B	61618	2010-07-20 at 08:51	71894	2010-07-20 at 11:55
TPH DRO - NEW	S 8015 D	61591	2010-07-19 at $14:30$	71872	2010-07-19 at 14:30
TPH GRO	S 8015 D	61608	2010-07-19 at 16:00	71884	2010-07-19 at 16:29

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 10071915 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: July 20, 2010 114-6400595

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Page Number: 4 of 30 Lea County, NM

Analytical Report

Sample: 237996 - SW1

Laboratory: Midland							
Analysis: BTEX		Analytical M	lethod:	S 8021B		Prep Metl	nod: S 5035
QC Batch: 71883		Date Analyz	ed:	2010-07-19		Analyzed	By: AG
Prep Batch: 61608		Sample Prep	paration:	2010-07-19		Prepared	By: AG
		\mathbf{RL}					
Parameter F	lag	Result		Units	Di	lution	\mathbf{RL}
Benzene		< 0.0200	· · · · · · · · · · · · · · · · · · ·	mg/Kg		1	0.0200
Toluene		< 0.0200		mg/Kg		1	0.0200
Ethylbenzene		< 0.0200		mg/Kg		1	0.0200
Xylene		< 0.0200		mg/Kg	·	1	0.0200
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.43	mg/Kg	1	2.00	72	52.8 - 137
4-Bromofluorobenzene (4-BFE	3)	1.44	mg/Kg	1	2.00	72	38.4 - 157

Sample: 237996 - SW1

Chloride		213	mg/Kg	50	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
QC Batch: Prep Batch:	71893 61617	Date Analyzed: Sample Preparation	2010-07-20 n: 2010-07-20	Analyzed By: Prepared By:	AR AR
Laboratory: Analysis:	Midland Chloride (Titration)	Analytical Method	SM 4500-Cl B	Prep Method:	N/A

Sample: 237996 - SW1

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical M	lethod: S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyz	ed: 2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Prep	paration: 2010-07-19	Prepared By:	kg
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		93.5	mg/Kg		1	100	94	70 - 130
Sample: 23	7996 - SW1							
Laboratory:	Midland							
Analysis:	TPH GRO		Analytical	Method:	S 8015 D		Prep Met	
QC Batch:	71884		Date Anal	•	2010-07-19		Analyzed	•
Prep Batch:	61608		Sample Pr	eparation	: 2010-07-19	I	Prepared	By: AG
			RL					
Parameter	Fl	ag	\mathbf{Result}		Units		Dilution	RI
GRO			<2.00		mg/Kg		1	2.00
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	-	Recovery	Limits
Trifluorotolue	ene (TFT)		1.64	mg/Kg	1	2.00	82	48.5 - 15
4-Bromofluor	obenzene (4-BF	В)	1.57	mg/Kg	1	2.00	78	42 - 159
Laboratory: Analysis: QC Batch:	7997 - SW2 Midland BTEX 71883 61608		Analytical I Date Analy Sample Pre	zed:	S 8021B 2010-07-19 2010-07-19		Prep Metl Analyzed Prepared	By: AG
Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 71883 61608		Date Analy Sample Pre RL	zed:	2010-07-19 2010-07-19		Analyzed Prepared	By: AG By: AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland BTEX 71883 61608	Flag	Date Analy Sample Pre RL Result	zed:	2010-07-19 2010-07-19 Units	Ē	Analyzed Prepared	By: AG By: AG RI
Sample: 23' Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene	Midland BTEX 71883 61608	Flag	Date Analy Sample Pre RL Result <0.0200	zed:	2010-07-19 2010-07-19 Units mg/Kg	Γ	Analyzed Prepared Pilution 1	By: AG By: AG RI 0.0200
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene	Midland BTEX 71883 61608	Flag	Date Analy Sample Pre RL Result <0.0200 <0.0200	zed: paration:	2010-07-19 2010-07-19 Units mg/Kg mg/Kg	Ē	Analyzed Prepared Pilution 1 1	By: AG By: AG RI 0.0200 0.0200
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	Midland BTEX 71883 61608	Flag	Date Analy Sample Pre RL Result <0.0200 <0.0200 <0.0200	zed: paration:	2010-07-19 2010-07-19 Units mg/Kg mg/Kg mg/Kg	<u>Γ</u>	Analyzed Prepared Pilution 1 1 1 1	By: AG By: AG RI 0.0200 0.0200 0.0200
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	Midland BTEX 71883 61608	Flag	Date Analy Sample Pre RL Result <0.0200 <0.0200	zed: paration:	2010-07-19 2010-07-19 Units mg/Kg mg/Kg	E	Analyzed Prepared Pilution 1 1	By: AG By: AG RI 0.0200 0.0200 0.0200
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene	Midland BTEX 71883 61608		Date Analy Sample Pre RL Result <0.0200 <0.0200 <0.0200 <0.0200	zed: paration:	2010-07-19 2010-07-19 Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike	Analyzed Prepared Pilution 1 1 1 1 1 Percent	By: AG By: AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	Midland BTEX 71883 61608	Flag Flag	Date Analy Sample Pre RL Result <0.0200 <0.0200 <0.0200 <0.0200 Result	zed: paration: Units	2010-07-19 2010-07-19 Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Spike Amount	Analyzed Prepared Pilution 1 1 1 1 Percent Recovery	By: AG By: AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue	Midland BTEX 71883 61608	Flag	Date Analy Sample Pre RL Result <0.0200 <0.0200 <0.0200 <0.0200	zed: paration:	2010-07-19 2010-07-19 Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike	Analyzed Prepared Pilution 1 1 1 1 1 Percent	By: AG By: AG

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997 - SW2		SAU #25		Page Number: 6 c Lea County,		
Midland Chloride (Titration) 71893 61617		yzed: 2	SM 4500-Cl B 2010-07-20 2010-07-20	Prep Me Analyze Prepare	d By: AR	
	RL		· · · ·	Data	DI	
Flag					RI 4.00	
997 - SW2 Midland TPH DRO - NEW	Analytical Data Anal		S 8015 D	Prep Me	•	
Midland	Date Anal Sample Pr	lyzed:	S 8015 D 2010-07-19 2010-07-19	Prep Me Analyze Prepare	d By: kg	
Midland TPH DRO - NEW 71872 61591	Date Anal	lyzed: reparation:	2010-07-19 2010-07-19	Analyze	d By: kg	
Midland TPH DRO - NEW 71872	Date Anal Sample Pr RL	lyzed: reparation: U	2010-07-19	Analyze Prepare	d By: kg d By: kg	
Midland TPH DRO - NEW 71872 61591	Date Anal Sample Pr RL Result	lyzed: reparation: U	2010-07-19 2010-07-19 Units	Analyze Prepare Dilution	d By: kg d By: kg RI	
	71893 61617 Flag	61617 Sample Pro RL	61617 Sample Preparation: RL Flag Result	61617 Sample Preparation: 2010-07-20 RL Flag Result Units	61617 Sample Preparation: 2010-07-20 Prepare RL Flag Result Units Dilution	

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Parameter	Flag		Result		\mathbf{Units}	Ľ	oilution	\mathbf{RL}
GRO		· · · · · · · · · · · · · · · · · · ·	<2.00		mg/Kg		1	2.00
C		T2)	Denult	TT. t.		Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.86	mg/Kg	1	2.00	93	48.5 - 152
4-Bromofluorobenzene (4-B	FB)		1.76	mg/Kg	1	2.00	88	42 - 159

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Sample: 237998 - SW3

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Analysis: 1 QC Batch:	Midland BTEX 71883 61608		Analytical I Date Analy Sample Pre	zed:	S 8021B 2010-07-19 2010-07-19		Prep Meth Analyzed Prepared	By: AG
			RL					
Parameter	Flag		Result		$\mathbf{U}\mathbf{n}\mathbf{i}\mathbf{t}\mathbf{s}$	Di	ilution	\mathbf{RL}
Benzene			< 0.0200		mg/Kg		1	0.0200
Toluene			< 0.0200		mg/Kg		1	0.0200
Ethylbenzene			< 0.0200		mg/Kg		1	0.0200
Xylene			< 0.0200		mg/Kg		1	0.0200
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluen	e (TFT)	¥	2.13	mg/Kg	1	2.00	106	52.8 - 137
4-Bromofluoro	benzene (4-BFB)		2.14	mg/Kg	1	2.00	107	38.4 - 157

Sample: 237998 - SW3

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 71893	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-07-20 2010-07-20	Prep Method: Analyzed By: Prepared By:	\overline{AR}
		RL			
Parameter	\mathbf{Flag}	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		<200	mg/Kg	50	4.00

Sample: 237998 - SW3

Midland						
TPH DRO - N	NEW	Analytic	cal Method:	S 8015 D	Prep M	lethod: N/A
71872		Date Ar	nalyzed: ź	2010-07-19	Analyz	ed By: kg
C Batch: 71872 ep Batch: 61591			Preparation:	2010-07-19	Prepare	
		\mathbf{RL}				
F	lag	\mathbf{Result}	U	nits	Dilution	\mathbf{RL}
		<50.0	mg	/Kg	1	50.0
				Spike	Percent	Recovery
Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
	88.9	mg/Kg	1	100	89	70 - 130
	TPH DRO - N 71872 61591 F	TPH DRO - NEW 71872 61591 Flag Flag Result	TPH DRO - NEWAnalytic71872Date An61591SampleRLFlagResultFlagResultFlagResultFlagResultFlagResultUnits	TPH DRO - NEWAnalytical Method:71872Date Analyzed:61591Sample Preparation:RLFlagResultUFlagResultUFlagResultUFlagResultUFlagResultUFlagResultUnitsDilution	TPH DRO - NEWAnalytical Method:S 8015 D71872Date Analyzed:2010-07-1961591Sample Preparation:2010-07-19RLFlagResultUnits< 50.0	TPH DRO - NEWAnalytical Method:S 8015 DPrep M71872Date Analyzed:2010-07-19Analyz61591Sample Preparation:2010-07-19PreparationRLFlagResultUnitsDilution<50.0

Report Date 114-6400595	: July 20, 2010		Wo	rk Order: LSAU	10071915 #25			mber: 8 of 30 a County, NM
Sample: 23'	7998 - SW3							
Laboratory:	Midland							
Analysis:	TPH GRO		Analytical		S 8015 D		Prep Met	
QC Batch:	71884		Date Analy		2010-07-19		Analyzed	-
Prep Batch:	61608		Sample Pro	eparation	2010-07-19		Prepared	By: AG
			\mathbf{RL}					
Parameter	Flag		Result		Units	Ľ	Dilution	RL
GRO			<2.00		mg/Kg		1	2.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue			2.41	mg/Kg	1	2.00	120	48.5 - 152
4-Bromofluor	obenzene (4-BFB)		2.31	mg/Kg	1	2.00	116	42 - 159
Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	BTEX 71883 61608 Flag		Analytical M Date Analyz Sample Prep RL Result <0.0200 <0.0200 <0.0200	ed:	S 8021B 2010-07-19 2010-07-19 Units mg/Kg mg/Kg mg/Kg	Di	Prep Met Analyzed Prepared lution 1 1 1	By: AG
Xylene			< 0.0200		mg/Kg		1	0.0200
<i>v</i>					01-20	a .:		
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)	- 10g	1.44	mg/Kg	1	2.00	72	52.8 - 137
	obenzene (4-BFB)		1.44 1.45	mg/Kg	1	2.00 2.00	72	38.4 - 157
Analysis: QC Batch:	7999 - SW4 Midland Chloride (Titration) 71893 61617		Date A	cal Metho nalyzed: Preparat	2010-07-20)	Prep M Analyze Prepare	d By: AR
			RL					
							• • • •	
Parameter	Flag		\mathbf{Result}		Units	D	ilution	\mathbf{RL}

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Sample: 23'	7999 - SW4	1						
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 71872 61591	- NEW	Date	vtical Metl Analyzed: le Prepara	2010-	07-19	Prep M Analyze Prepare	ed By: kg
Parameter		Flag	RL Result		Units		Dilution	RL
DRO			<50.0		mg/Kg		1	50.0
Surrogate	Flag	Result	Units	Dila	ution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		89.3	mg/Kg		1	100	89	70 - 130
QC Batch: Prep Batch:	71884 61608		Date Anal Sample Pr RL	•	2010-07-19 2010-07-19		Analyzed Prepared	-
Parameter		Flag	Result		Units		Dilution	RL
GRO			<2.00		mg/Kg		1	2.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue			1.64	mg/Kg	1	2.00	82	48.5 - 152
4-Bromofluor	obenzene (4-	вғв)	1.58	mg/Kg	1	2.00	79	42 - 159
Sample: 238	8000 - SW5							
Analysis: QC Batch:	Midland BTEX 71883		Analytical M Date Analy:	zed:	S 8021B 2010-07-19		Prep Met Analyzed	By: AG
Prep Batch:	61608		Sample Prep	paration:	2010-07-19		Prepared	By: AG
Data			RL			-		
Parameter Benzene		Flag	Result <0.0200		Units	1	Dilution	RL
Benzene Toluene			< 0.0200 < 0.0200		mg/Kg		1	0.0200 0.0200
TOTACHC					mg/Kg		1	
Ethylbenzene			< 0.0200		mg/Kg		1	0.0200

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Report Date 114-6400595	e: July 20, 2010		Work Order: 10071915 LSAU #25				Page Number: 10 of 3 Lea County, NI	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.24	mg/Kg	1	2.00	62	52.8 - 137
4-Bromofluo	robenzene (4-BF	'B)	1.24	mg/Kg	1	2.00	62	38.4 - 157
Sample: 23	8000 - SW5							
Laboratory:			• 1		03.6 4500			r.1 1 57/A
Analysis:	Chloride (Titra	ation)	v	tical Method			Prep M	
QC Batch:	71893			Analyzed: e Preparatio	2010-07-2 n: 2010-07-2		Analyz Duon on	
Prep Batch:	61617		Sampi	e Preparatio	n: 2010-07-2	20	Prepare	ed By: AR
			\mathbf{RL}					
Parameter	Fl	ag	\mathbf{Result}		Units		Dilution	RL
Chloride			<400		mg/Kg		100	4.00
Laboratory: Analysis:	8000 - SW5 Midland TPH DRO - N 71872	ΈW		ytical Metho Analyzed:			Prep M Analyz	,
Laboratory: Analysis: QC Batch:	Midland	ΈW	Date Samp	ytical Methoo Analyzed: ole Preparatio	2010-07-	-19	Prep M Analyze Prepare	ed By: kg
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - N 71872 61591		Date Samp RL	Analyzed:	2010-07- on: 2010-07-	-19	Analyz Prepare	ed By: kg ed By: kg
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland TPH DRO - N 71872 61591	EW	Date Samp RL Result	Analyzed:	2010-07- on: 2010-07- Units	-19	Analyze Prepare Dilution	ed By: kg ed By: kg RL
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland TPH DRO - N 71872 61591		Date Samp RL	Analyzed:	2010-07- on: 2010-07- Units mg/Kg	-19 -19	Analyze Prepare Dilution 1	ed By: kg ed By: kg <u>RL</u> 50.0
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO	Midland TPH DRO - N 71872 61591 Fl	ag	Date Samp RL Result <50.0	Analyzed: ole Preparatio	2010-07- on: 2010-07- Units mg/Kg	-19 -19 Spike	Analyze Prepare Dilution 1 Percent	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO	Midland TPH DRO - N 71872 61591	ag Result	Date Samp RL Result <50.0 Units	Analyzed: ole Preparatio Diluti	2010-07- on: 2010-07- Units mg/Kg on Ai	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery Limits
Sample: 23 Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane	Midland TPH DRO - N 71872 61591 Fl	ag	Date Samp RL Result <50.0	Analyzed: ole Preparatio	2010-07- on: 2010-07- Units mg/Kg on Ai	-19 -19 Spike	Analyze Prepare Dilution 1 Percent	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate h-Tricosane	Midland TPH DRO - N 71872 61591 Fl	ag Result	Date Samp RL Result <50.0 Units	Analyzed: ole Preparatio Diluti	2010-07- on: 2010-07- Units mg/Kg on Ai	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery Limits
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate h-Tricosane Sample: 23	Midland TPH DRO - N 71872 61591 Flag 8000 - SW5	ag Result	Date Samp RL Result <50.0 Units	Analyzed: ole Preparatio Diluti	2010-07- on: 2010-07- Units mg/Kg on Ai	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery Limits
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate h-Tricosane Sample: 23 Laboratory:	Midland TPH DRO - N 71872 61591 Flag	ag Result	Date Samp RL Result <50.0 Units mg/Kg	Analyzed: le Preparatio Diluti 1	2010-07- on: 2010-07- Units mg/Kg on Ai	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery Limits 70 - 130
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 23 Laboratory: Analysis:	Midland TPH DRO - N 71872 61591 Flag 8000 - SW5 Midland	ag Result	Date Samp RL Result <50.0 Units	Analyzed: ole Preparatio Diluti 1 Method:	2010-07- on: 2010-07- <u>Units</u> mg/Kg on An	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 90	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery Limits 70 - 130
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate -Tricosane Sample: 23 Laboratory: Analysis: QC Batch:	Midland TPH DRO - N 71872 61591 Flag 8000 - SW5 Midland TPH GRO	ag Result	Date Samp RL Result <50.0 Units mg/Kg	Analyzed: ole Preparatio Diluti 1 Method: yzed:	2010-07- on: 2010-07- Units mg/Kg on An S 8015 D	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 90 Prep Met	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery Limits 70 - 130 hod: S 5035 By: AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate h-Tricosane	Midland TPH DRO - N 71872 61591 Flag 8000 - SW5 Midland TPH GRO 71884	ag Result	Date Samp RL Result <50.0 Units mg/Kg Analytical Date Anal	Analyzed: ole Preparatio Diluti 1 Method: yzed:	2010-07- on: 2010-07- <u>Units</u> mg/Kg S 8015 D 2010-07-19	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 90 Prep Met Analyzed	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery Limits 70 - 130 hod: S 5035 By: AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 23 Laboratory: Analysis: QC Batch:	Midland TPH DRO - N 71872 61591 Flag 8000 - SW5 Midland TPH GRO 71884	ag Result 89.8	Date Samp RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr	Analyzed: ole Preparatio Diluti 1 Method: yzed:	2010-07- on: 2010-07- <u>Units</u> mg/Kg S 8015 D 2010-07-19	19 19 Spike mount 100	Analyze Prepare Dilution 1 Percent Recovery 90 Prep Met Analyzed	ed By: kg ed By: kg <u>RL</u> 50.0 Recovery Limits 70 - 130 hod: S 5035 By: AG

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Report Date: Ju 114-6400595	Report Date: July 20, 2010 114-6400595			Work Order: 10071915 LSAU #25				Page Number: 11 of 30 Lea County, NM		
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene	(TFT)		1.42	mg/Kg	1	2.00	71	48.5 - 152		
4-Bromofluorobe	· ·	<u> </u>	1.36	mg/Kg	1	2.00	68	42 - 159		
Sample: 23800	1 - SW6									
Analysis: B7	dland YEX 383 508		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2010-07-19 2010-07-19		Prep Met Analyzed Prepared	By: AG		
Parameter	Flag		RESULT		Units	ח	ilution	RI		
Benzene	<u>1146</u>		<0.0200		mg/Kg	D	1	0.020		
Toluene			< 0.0200		mg/Kg		1	0.020		
Ethylbenzene			< 0.0200		mg/Kg		1	0.020		
Xylene			< 0.0200		mg/Kg	···	1	0.020		
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TET)	1 148	1.23	mg/Kg	1	2.00	62	52.8 - 13		
4-Bromofluorobe			1.25	mg/Kg	1	2.00	62	38.4 - 15		
v	dland loride (Titration) 393		Date A	ical Metho nalyzed: Preparat	2010-07-2	0	Prep M Analyze Prepare	d By: AR		
			RL							
Parameter	Flag		Result		Units	Ι	Dilution	RI		
Chloride			<200		mg/Kg		50	4.00		

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Laboratory: Analysis: QC Batch: Prep Batch:	TPH DRO - NEW 71872	Analytical Method: Date Analyzed: Sample Preparation:	2010-07-19	Prep Method: Analyzed By: Prepared By:	kg

Report Date 114-6400595	e: July 20, 2010		Wo	rk Order: LSAU #		······		nber: 12 of 3 a County, NM
			RL					
Parameter	F	lag	Result		Units		Dilution	RI
DRO			<50.0		mg/Kg		1	50.0
						Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dil	ution	Amount	Recovery	Limits
n-Tricosane	1005	89.8	mg/Kg		1	100	90	70 - 130
			6/6					
Sample: 23	8001 - SW6							
Laboratory:	Midland							
Analysis:	TPH GRO		Analytical		S 8015 D		Prep Met	
QC Batch:	71884		Date Anal	•	2010-07-19		Analyzed	
Prep Batch:	61608		Sample Pr	eparation:	2010-07-19)	Prepared	By: AG
			RL					
Parameter	F	lag	Result		Units		Dilution	RI
GRO			<2.00		mg/Kg		1	2.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution		Recovery	Limits
Trifluorotolue	ene (TFT)		1.40	mg/Kg	1	2.00	70	48.5 - 15
	obenzene (4-BF	`B)	1.34	mg/Kg	1	2.00	67	42 - 159
Sample: 23	8002 - SW7							
- Laboratory:	Midland							
Analysis:	BTEX		Analytical I	Method:	S 8021B		Prep Met	hod: S 5033
QC Batch:	71883		Date Analy		2010-07-19		Analyzed	
Prep Batch:	61608		Sample Pre		2010-07-19		Prepared	By: AG
			\mathbf{RL}					
Parameter		Flag	Result		Units	Ι	Dilution	RI
Benzene		<u>~</u>	< 0.0200		mg/Kg		1	0.0200
Toluene			< 0.0200		mg/Kg		1	0.0200
Ethylbenzene			< 0.0200		mg/Kg		1	0.0200
Xylene	·		< 0.0200		mg/Kg		1	0.0200
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution		Recovery	Limits
	ene (TFT)	0	1.40	mg/Kg	1	2.00		52.8 - 137
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Report Date 114-6400595	e: July 20, 2010 5			Work Order: 10071915 LSAU #25			nber: 13 of 3 a County, NM
Sample: 23	38002 - SW7						
Laboratory:	Midland						
Analysis:	Chloride (Titr	ation)	Analytical M		4500-Cl B	Prep M	
QC Batch:	71893		Date Analyz		0-07-20	Analyze	
Prep Batch:	61617		Sample Prep	aration: 201	0-07-20	Prepare	ed By: AR
			RL				
Parameter	\mathbf{F}	lag	\mathbf{Result}	Uni	ts	Dilution	RI
Chloride			484	mg/ł	Кg	50	4.00
Sample: 23 Laboratory: Analysis: QC Batch: Prep Batch:	88002 - SW7 Midland TPH DRO - N 71872 61591	IEW	Analytical M Date Analy: Sample Prej	zed: 20	8015 D 10-07-19 10-07-19	Prep M Analyze Prepare	ed By: kg
			\mathbf{RL}				
Parameter	FI	ag	Result	Uni		Dilution	RI
DRO			<50.0	mg/k	g	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result		Dilution	Amount	Recovery	Limits
n-Tricosane		91.8	mg/Kg	1	100	92	70 - 130
Sample: 23	88002 - SW7						
Laboratory:	Midland				_		
Laboratory: Analysis:	Midland TPH GRO		Analytical Metho			Prep Met	
Laboratory: Analysis: QC Batch:	Midland TPH GRO 71884		Date Analyzed:	2010-07	-19	Analyzed	By: AG
-	Midland TPH GRO 71884			2010-07	-19		By: AG
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 71884 61608		Date Analyzed: Sample Preparat RL	2010-07 ion: 2010-07	7-19 7-19	Analyzed Prepared	By: AG By: AG
Laboratory: Analysis: QC Batch:	Midland TPH GRO 71884 61608	ag	Date Analyzed: Sample Preparat	2010-07	-19 -19	Analyzed	By: AG

					\mathbf{Spike}	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	1.62	mg/Kg	1	2.00	81	48.5 - 152
4-Bromofluorober	nzene (4-BFB)	1.56	mg/Kg	1	2.00	78	42 - 159

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Sample: 238003 - AH-1 0-1'

Laboratory:	Midland							
Analysis:	BTEX		Analytical	Method:	S 8021B		Prep Metl	nod: S 5035
QC Batch:	71883		Date Analy	zed:	2010-07-19		Analyzed	By: AG
Prep Batch:	61608		Sample Pre	paration:	2010-07-19		Prepared	By: AG
			RL					
Parameter	Flag		Result		Units	Di	ilution	\mathbf{RL}
Benzene			< 0.0200		mg/Kg		1	0.0200
Toluene			< 0.0200	l	mg/Kg		· 1	0.0200
Ethylbenzene			< 0.0200	i	mg/Kg		1	0.0200
Xylene			< 0.0200	 	mg/Kg		1	0.0200
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluen	ne (TFT)		2.30	mg/Kg	1	2.00	115	52.8 - 137
4-Bromofluoro	benzene (4-BFB)		2.28	mg/Kg		2.00	114	38.4 - 157

Sample: 238003 - AH-1 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 71894	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-07-20 2010-07-20	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238003 - AH-1 0-1'

n-Tricosane		91.4	mg/Kg	1	100	91	70 - 130	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Recovery Limits	
					Spike	Percent	Pototomy	
DRO			<50.0	mg/l	Kg	1	50.0	
Parameter	F	lag	RL Result	Un	its	Dilution	RL	
Prep Batch:	61591		Sample	Preparation: 20	010-07-19	Prepare	red By: kg	
QC Batch:	71872		Date A	nalyzed: 20	010-07-19	Analyz	ed By: kg	
Laboratory: Analysis:	Midland TPH DRO - N	IEW	Analyti	cal Method: S	8015 D	Prep M	lethod: N/A	

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Sample: 23	8003 - AH-1 0-1'							
Laboratory:	Midland				0.001 - 5			1 0 500
Analysis:	TPH GRO		Analytical		S 8015 D		Prep Met	
QC Batch:	71884		Date Analy		2010-07-19 2010-07-19		Analyzed Prepared	
Prep Batch:	61608		Sample Pre	eparation:	2010-07-19		rrepared	Dy: AG
			RL					
Parameter	Flag		Result		Units	E	Dilution	R
GRO			<2.00		mg/Kg		1	2.0
-					D 11	Spike	Percent	Recover
Surrogate	(005:00)	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT) obenzene (4-BFB)		$\begin{array}{c} 2.60\\ 2.44\end{array}$	mg/Kg	1 1	$2.00 \\ 2.00$	130 122	48.5 - 15 42 - 159
4-DI0III011001	obenzene (4-BFB)		2.44	mg/Kg	1	2.00	122	42 ~ 103
Sample: 238	8004 - AH-2 0-1'							
- Laboratory:	Midland							
Analysis:	BTEX		Analytical N	lethod:	S 8021B		Prep Metl	hod: S 503
QC Batch:	71883		Date Analyz		2010-07-19		Analyzed	
Prep Batch:	61608		Sample Prep		2010-07-19		Prepared	
· · I							Ĩ	v
D			RL		T T 1,	D:	.	D
Parameter	Flag		Result		Units	D1	lution	R
Benzene			<0.0200		mg/Kg		1	0.020
Toluene			< 0.0200		mg/Kg		1	0.020
Ethylbenzene Xalana			< 0.0200		mg/Kg		1	0.020 0.020
Xylene			< 0.0200		mg/Kg		1	0.020
						Spike	Percent	Recover
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue			1.47	mg/Kg	1	2.00	74	52.8 - 13
4-Bromofluor	obenzene (4-BFB)		1.53	mg/Kg	1	2.00	76	38.4 - 15
Sample: 238	8004 - AH-2 0-1'							
Laboratory:	Midland							
Analysis:	Chloride (Titration)			cal Metho			Prep Me	
QC Batch:	71894			nalyzed:	2010-07-2		Analyze	•
Prep Batch:	61618		Sample	Preparat	ion: 2010-07-2	0	Prepare	d By: AR
)			RL		TT. 1	~	•• ••	-
	Flag		\mathbf{Result}		\mathbf{Units}	D	ilution	RI
Parameter Chloride		********	<200		mg/Kg	······	50	4.0

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Report Date 114-6400595	: July 20, 20	10	Woi	rk Order: LSAU ;			Page Number: 16 of Lea County, N		
Sample: 23	8004 - AH-	2 0-1'							
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 71872 61591	- NEW	Date	vtical Met Analyzed le Prepara	2010-0	07-19	Prep Me Analyze Prepare	d By: kg	
_			RL				D .1		
Parameter	<u></u>	Flag	Result <50.0		Units mg/Kg	<u></u>	Dilution 1	RL 50.0	
Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery	Recovery Limits	
n-Tricosane	r iag	93.5	mg/Kg	D	1	100	<u>94</u>	70 - 130	
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 71884 61608		Analytical Date Anal Sample Pr	yzed:	S 8015 D 2010-07-19 2010-07-19		Prep Metl Analyzed Prepared	By: AG	
Parameter		Flag	RL Result		Units		Dilution	RI	
GRO			<2.00		mg/Kg		1	2.00	
Surrogate		Flag	Result	Units	Dilution		Percent Recovery	Recovery Limits	
Trifluorotolue 4-Bromofluor		BFB)	1.68 1.64	mg/Kg mg/Kg	1 1	$2.00 \\ 2.00$	84 82	48.5 - 152 42 - 159	
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch:	8005 - AH-3 Midland BTEX 71883 61608	3 0-1'	Analytical M Date Analyz Sample Prep	zed:	S 8021B 2010-07-19 2010-07-19		Prep Meth Analyzed Prepared	By: AG	
Parameter		Flag	RL Result	,	Units		Dilution	RL	
Benzene Toluene			<0.0200 <0.0200 <0.0200 <0.0200 <0.0200	·	mg/Kg mg/Kg mg/Kg mg/Kg		1 1 1 1 1	0.0200 0.0200 0.0200 0.0200	

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Report Date 114-6400595	a: July 20, 2010) 	Wo	ork Order: 100 LSAU #25	0	Page Number: 17 of Lea County, N		
Surrogate	_	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recover Limits
Trifluorotolu			1.69	mg/Kg	1	2.00	84	52.8 - 13
4-Bromofluo	robenzene (4-B	FB)	1.70	mg/Kg	1	2.00	85	38.4 - 15
Sample: 23	8005 - AH-3	0-1'						
Laboratory:	Midland							
Analysis:	Chloride (Tit	ration)	-	tical Method:	SM 4500		Prep M	
QC Batch:	71894			Analyzed:	2010-07-2		Analyze	-
Prep Batch:	61618		Sampl	le Preparation	: 2010-07-2	20	Prepare	ed By: AR
	-		RL		T T •.		D.1	
Parameter Chloride	ŀ	lag	Result <200		Units mg/Kg		Dilution 50	R 4.0
-	8005 - AH-3 Midland	0-1'						
Laboratory: Analysis: QC Batch:			Date	ytical Method Analyzed: ble Preparation	2010-07	-19	Prep M Analyze Prepare	ed By: kg
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - I 71872 61591	NEW	Date Samp RL	Analyzed:	2010-07- n: 2010-07-	-19	Analyze Prepare	ed By: kg ed By: kg
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland TPH DRO - I 71872 61591		Date Samp RL Result	Analyzed:	2010-07- n: 2010-07- Units	-19	Analyze Prepare Dilution	ed By: kg ed By: kg R
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland TPH DRO - I 71872 61591	NEW	Date Samp RL	Analyzed:	2010-07- n: 2010-07-	-19	Analyze Prepare	ed By: kg ed By: kg
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland TPH DRO - I 71872 61591	NEW	Date Samp RL Result	Analyzed:	2010-07 n: 2010-07 Units mg/Kg	-19	Analyze Prepare Dilution	ed By: kg ed By: kg <u>R</u> 50. Recover
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO	Midland TPH DRO - I 71872 61591	NEW	Date Samp RL Result <50.0 Units	Analyzed:	2010-07- n: 2010-07- Units mg/Kg	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery	ed By: kg ed By: kg <u>R</u> 50. Recover Limits
Laboratory: Analysis: QC Batch:	Midland TPH DRO - I 71872 61591 F	NEW 'lag	Date Samp RL Result <50.0	Analyzed: ole Preparation	2010-07- n: 2010-07- Units mg/Kg	-19 -19 Spike	Analyze Prepare Dilution 1 Percent	ed By: kg ed By: kg <u>R</u> 50. Recover
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane	Midland TPH DRO - I 71872 61591 F	NEW Tag Result 96.3	Date Samp RL Result <50.0 Units	Analyzed: ole Preparation Dilutio	2010-07- n: 2010-07- Units mg/Kg	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery	ed By: kg ed By: kg <u>R</u> 50. Recover Limits
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 23 Laboratory:	Midland TPH DRO - 1 71872 61591 Flag 8005 - AH-3 6 Midland	NEW Tag Result 96.3	Date Samp RL Result <50.0 Units mg/Kg	Analyzed: ole Preparation Dilutio	2010-07- n: 2010-07- <u>Units</u> mg/Kg	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 96	ed By: kg ed By: kg <u>R</u> 50. Recover Limits 70 - 130
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 23 Laboratory: Analysis:	Midland TPH DRO - 1 71872 61591 F Flag 8005 - AH-3 6 Midland TPH GRO	NEW Tag Result 96.3	Date Samp RL Result <50.0 Units mg/Kg	Analyzed: ole Preparation Dilutio 1 Method: S	2010-07- n: 2010-07- Units mg/Kg sn A 8015 D	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 96 Prep Met	ed By: kg ed By: kg <u>R</u> 50. Recover Limits 70 - 130
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 23 Laboratory: Analysis: QC Batch:	Midland TPH DRO - 1 71872 61591 F Flag 8005 - AH-3 Midland TPH GRO 71884	NEW Tag Result 96.3	Date Samp RL Result <50.0 Units mg/Kg Analytical Date Anal	Analyzed: ole Preparation Dilutio 1 Method: S yzed: 2	2010-07- n: 2010-07- Units mg/Kg sn A: 8015 D 010-07-19	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 96 Prep Met Analyzed	ed By: kg ed By: kg R 50. Recover Limits 70 - 130 hod: S 503 By: AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 23 Laboratory: Analysis: QC Batch:	Midland TPH DRO - 1 71872 61591 F Flag 8005 - AH-3 6 Midland TPH GRO	NEW Tag Result 96.3	Date Samp RL Result <50.0 Units mg/Kg	Analyzed: ole Preparation Dilutio 1 Method: S yzed: 2	2010-07- n: 2010-07- Units mg/Kg sn A 8015 D	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 96 Prep Met	ed By: kg ed By: kg R 50. Recover Limits 70 - 130 hod: S 503 By: AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 23 Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - 1 71872 61591 F Flag 8005 - AH-3 (Midland TPH GRO 71884 61608	NEW ^{ilag} <u>Result</u> 96.3 0-1'	Date Samp RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL	Analyzed: ole Preparation Dilutio 1 Method: S yzed: 2	2010-07- n: 2010-07- <u>Units</u> mg/Kg m A 8015 D 010-07-19 010-07-19	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 96 Prep Met Analyzed Prepared	ed By: kg ed By: kg R 50. Recover Limits 70 - 130 hod: S 503 By: AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 23 Laboratory: Analysis: QC Batch:	Midland TPH DRO - 1 71872 61591 F Flag 8005 - AH-3 (Midland TPH GRO 71884 61608	NEW Tag Result 96.3	Date Samp RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr	Analyzed: ole Preparation Dilutio 1 Method: S yzed: 2	2010-07- n: 2010-07- Units mg/Kg sn A: 8015 D 010-07-19	-19 -19 Spike mount	Analyze Prepare Dilution 1 Percent Recovery 96 Prep Met Analyzed	ed By: kg ed By: kg R 50. Recover Limits 70 - 130 hod: S 503 By: AG

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					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)		1.90	mg/Kg	1	2.00	95	48.5 - 152	
4-Bromofluorobenzene (4-BFB)		1.82	mg/Kg	1	2.00	91	42 - 159	
Sample: 238006 - AH-3 1-1.5								
Laboratory: Midland			4 .1.1	C 0001D		D Mat		
Analysis: BTEX		Analytical M		S 8021B		Prep Met		
QC Batch: 71883		Date Analyz		2010-07-19		Analyzed By: A Prepared By: A		
Prep Batch: 61608		Sample Prep	Daration:	2010-07-19		Prepared	By: AG	
Dama u atau Ela a		RL		Units	D.	ilution	RI	
Parameter Flag Benzene		Result <0.0200		mg/Kg	D	<u>1</u>	0.020	
Toluene		< 0.0200		mg/Kg		1	0.0200	
Ethylbenzene		< 0.0200		mg/Kg		1	0.0200	
Xylene		< 0.0200		mg/Kg		1	0.0200	
					<u> </u>			
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)	Tiag	<u>1.61</u>	mg/Kg	1	2.00	<u>80</u>	52.8 - 137	
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00 2.00	80	38.4 - 157	
P Dromondorobenzene (+ Dr D)				L	2.00		00.1 101	
Sample: 238006 - AH-3 1-1.5'								
Laboratory: Midland								
Analysis: Chloride (Titration)	I		ical Metho			Prep M	,	
QC Batch: 71894			nalyzed:	2010-07-2		Analyze	•	
Prep Batch: 61618		Sample	Preparat	ion: 2010-07-2	0	Prepare	d By: AR	
		RL						
Parameter Flag	<u> </u>	Result		Units	D	Dilution	RL	
Chloride		<200		mg/Kg		50	4.00	

Laboratory: Midland Analysis: TPH DRO - NEW Analytical Method: Prep Method: N/A S 8015 D Analyzed By: QC Batch: 71872 Prep Batch: 61591 Date Analyzed: 71872 2010-07-19 Sample Preparation: 2010-07-19 Prepared By:

kg

kg

County, NM	Page Number Lea Co		Work Order: 10071915 LSAU #25				: July 20, 2010			
DI	~	r	TT .,		RL		-		~	
RL	Dilution	L	Units		Result	<u></u>	Flag		Parameter	
50.0	1		mg/Kg		<50.0				DRO	
Recovery	Percent	Spike								
Limits	Recovery	Amount	ution	Dilı	Units	Result		Flag	Surrogate	
70 - 130	94	100	1		mg/Kg	93.5	•	<u>v</u>	n-Tricosane	
			<u></u>							
						9	[-3 1-1.5		Sample: 23	
od: S 5035	Prep Method		S 8015 D	Mathod.	Analytical		`	Midland TPH GRC	Laboratory:	
	Analyzed By:		2010-07-19		Date Anal		J	71884	Analysis: QC Batch:	
•	Prepared By:			eparation:				61608	Prep Batch:	
y	tropurna 2.		4010 01	eparamon	Dampio			01000		
					RL					
RL	Dilution	D	Units		Result		Flag		Parameter	
2.00	1		mg/Kg		<2.00				GRO	
Recovery	Percent	Spike		·······				_		
Limits	Recovery	Amount	Dilution	Units	Result	Flag			Surrogate	
48.5 - 152		2.00	1	mg/Kg	1.86			ne (TFT)	Trifluorotolu	
42 - 159	89	2.00	1	mg/Kg	1.78		4-BFB)	· · ·	4-Bromofluoi	
d: S 5035	Prep Method		S 8021B	Method:			-4 0-1'	8007 - AH	Sample: 23 Laboratory:	
y: AG	Analyzed By: Prepared By:		2010-07-19 2010-07-19		Analytical I Date Analy Sample Prej RL			Midland BTEX 71883 61608	Analysis: QC Batch: Prep Batch:	
y: AG		Di	2010-07-19		Date Analy		Flag	BTEX 71883	QC Batch:	
y: AG y: AG <u>RL</u> 0.0200	Prepared By:	Di	2010-07-19 2010-07-19	paration:	Date Analy Sample Pres RL Result <0.0200		Flag	BTEX 71883	QC Batch: Prep Batch: Parameter Benzene	
y: AG y: AG <u>RL</u> 0.0200 0.0200	Prepared By:	Di	2010-07-19 2010-07-19 Units mg/Kg mg/Kg	paration:	Date Analy Sample Pres RL Result <0.0200 <0.0200		Flag	BTEX 71883 61608	QC Batch: Prep Batch: Parameter Benzene Toluene	
y: AG y: AG <u>RL</u> 0.0200 0.0200 0.0200	Prepared By: ilution 1 1 1	Di	2010-07-19 2010-07-19 Units mg/Kg mg/Kg mg/Kg	paration:	Date Analy Sample Pre RL Result <0.0200 <0.0200 <0.0200		Flag	BTEX 71883 61608	QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	
y: AG y: AG <u>RL</u> 0.0200 0.0200	Prepared By: ilution 1 1	Di	2010-07-19 2010-07-19 Units mg/Kg mg/Kg	paration:	Date Analy Sample Pres RL Result <0.0200 <0.0200		Flag	BTEX 71883 61608	QC Batch: Prep Batch: Parameter Benzene Toluene	
y: AG y: AG 0.0200 0.0200 0.0200 0.0200 Recovery	Prepared By: ilution 1 1 1 1 1 Percent	Spike	2010-07-19 2010-07-19 Units mg/Kg mg/Kg mg/Kg mg/Kg	paration:	Date Analy Sample Pres RL Result <0.0200 <0.0200 <0.0200 <0.0200		Flag	BTEX 71883 61608	QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene	
y: AG y: AG <u>RL</u> 0.0200 0.0200 0.0200 0.0200	Prepared By: ilution 1 1 1 1 1 Percent Recovery		2010-07-19 2010-07-19 Units mg/Kg mg/Kg mg/Kg	paration:	Date Analy Sample Pre RL Result <0.0200 <0.0200 <0.0200	Flag	Flag	BTEX 71883 61608	QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	

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Report Date 114-6400595	e: July 20, 2010			rder: 1007191 AU #25	5	Page Number: Lea Cour	
Sample: 23	8007 - AH-4 ()-1'					
Laboratory:	Midland						
Analysis:	Chloride (Titr	ation)	Analytical l	Method: Sl	M 4500-Cl B	Prep Method:	,
QC Batch:	71894		Date Analy	zed: 20	010-07-20	Analyzed By:	\mathbf{AR}
Prep Batch:	61618		Sample Pre	eparation: 20	010-07-20	Prepared By:	\mathbf{AR}
			\mathbf{RL}				
Parameter	Fl	ag		Ui	nits	Dilution	\mathbf{RL}
Chloride Sample: 23	F1 8007 - AH-4 0 Midland	ag	Result <200	Ui mg/		Dilution 50	
Chloride Sample: 23 Laboratory: Analysis: QC Batch:	8007 - AH-4 0	-1'	Result	mg/ Method: S yzed: 2			4.00 : N/A kg
Chloride	8007 - AH-4 0 Midland TPH DRO - N 71872	-1'	Result <200 Analytical Date Analy	mg/ Method: S yzed: 2	/Kg 5 8015 D 2010-07-19	50 Prep Method: Analyzed By:	4.00 : N/A kg
Chloride Sample: 23 Laboratory: Analysis: QC Batch:	8007 - AH-4 0 Midland TPH DRO - N 71872 61591	-1'	Result <200 Analytical Date Analy Sample Pr	mg/ Method: S yzed: 2 reparation: 2	/Kg 5 8015 D 2010-07-19	50 Prep Method: Analyzed By:	4.00 : N/A kg kg RL
Chloride Sample: 23 Laboratory: Analysis: QC Batch: Prep Batch:	8007 - AH-4 0 Midland TPH DRO - N 71872 61591	9-1' EW	Result <200 Analytical Date Analy Sample Pr RL	mg/ Method: S yzed: 2 reparation: 2	/Kg 5 8015 D 2010-07-19 2010-07-19 nits	50 Prep Method: Analyzed By: Prepared By:	4.00 : N/A kg kg RL
Chloride Sample: 23 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	8007 - AH-4 0 Midland TPH DRO - N 71872 61591	9-1' EW	Result <200 Analytical Date Anal Sample Pr RL Result	mg/ Method: S yzed: 2 reparation: 2 Un	/Kg 5 8015 D 2010-07-19 2010-07-19 nits	50 Prep Method: Analyzed By: Prepared By: Dilution 1	4.00 : N/A kg kg RL
Chloride Sample: 23 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	8007 - AH-4 0 Midland TPH DRO - N 71872 61591	9-1' EW	Result <200 Analytical Date Anal Sample Pr RL Result	mg/ Method: S yzed: 2 reparation: 2 Un	/Kg S 8015 D 2010-07-19 2010-07-19 nits /Kg	50 Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re	4.00 : N/A kg kg RL 50.0

.

Sample: 238007 - AH-4 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland [.] TPH GRO 71884 61608		Analytical Date Anal Sample Pr		S 8015 D 2010-07-19 2010-07-19		Prep Metl Analyzed Prepared	By: AG
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO		······	<2.00		mg/Kg		1	2.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		1.28	mg/Kg	1	2.00	64	48.5 - 152
4-Bromofluor	obenzene (4-BFB)		1.26	mg/Kg	1	2.00	63	42 - 159

Report Date: July 20, 2010	Work Order: 10071915	Page Number: 21 of 30
114-6400595	LSAU #25	Lea County, NM

Sample: 238008 - AH-5 0-6 in.

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 71883 61608			Analytical Date Analy Sample Pre	zed:	S 8021B 2010-07-19 2010-07-19		Prep Metl Analyzed Prepared	By: AG
				RL	,				
Parameter		Flag		Result		Units	D	ilution	RL
Benzene				< 0.0200		mg/Kg		1	0.0200
Toluene				< 0.0200)	mg/Kg		1	0.0200
Ethylbenzene				< 0.0200	1	mg/Kg		1	0.0200
Xylene				< 0.0200	 	mg/Kg		1	0.0200
							Spike	Percent	Recovery
Surrogate			Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)	·····		1.58	mg/Kg	1	2.00	79	52.8 - 137
	obenzene (4-BI	FB)		1.61	mg/Kg	1	2.00	80	38.4 - 157

Sample: 238008 - AH-5 0-6 in.

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 71894	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-07-20 2010-07-20	Prep Method: Analyzed By: Prepared By:	•
		RL			
Parameter	$\mathbf{F}\mathbf{lag}$	Result	Units	Dilution	\mathbf{RL}
Chloride		<200	mg/Kg	50	4.00

Sample: 238008 - AH-5 0-6 in.

n-Tricosane		97.4	mg/Kg	1	100	97	70 - 130
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
					Spike	Percent	Recovery
DRO			<50.0	mg	/Kg	1	50.0
Parameter	F	ag	RL Result	U	nits	Dilution	\mathbf{RL}
QC Batch: Prep Batch:	71872 61591		Date A	nalyzed:	2010-07-19 2010-07-19	Analyz Prepar	ed By: kg
Laboratory: Analysis:	Midland TPH DRO - N	ЕW	Analyti	cal Method:	S 8015 D	Prep M	lethod: N/A

Report Date: 114-6400595	July 20, 2010		Wo	rk Order: 1 LSAU #				ber: 22 of 30 County, NM
Sample: 238	008 - AH-5 (0-6 in.						
Analysis: QC Batch:	Midland TPH GRO 71884 61608		Analytica Date Ana Sample P		S 8015 D 2010-07-19 2010-07-19		Prep Met Analyzed Prepared	By: AG
			RL					
Parameter	F	lag	Result		Units		Dilution	RL
GRO			< 2.00		mg/Kg		1	2.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluer			1.80	mg/Kg	1	2.00	90	48.5 - 152
4-Bromofluoro	benzene (4-BF	'B)	1.74	mg/Kg	1	2.00	87	42 - 159
Prep Batch: Parameter DRO	61591	Flag	QC Prep	MDL Result <14.5	010-07-19	Uni mg/l	ts	red By: kg RL 50
<u> </u>				<14.0		ng/1	<u></u>	
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		91.3	mg/Kg	1		100	91	70 - 130
Method Blar	nk (1) Q(C Batch: 71883	Date Ana		10-07-19		Analyz Prepare	
	61608		QC Prepa	aration: 20	10-07-19		Перан	u Dy. AU
Prep Batch:		Flag	QC Prepa	MD	L	Un	-	-
Prep Batch: (Parameter		Flag	QC Prepa		L lt	Un mg/	its	RL
Prep Batch: (Parameter Benzene Foluene		Flag	QC Prepa	MD Resu <0.013 <0.0093	L lt 50	mg/ mg/	its Kg Kg	RL 0.02 0.02
Prep Batch: (Parameter Benzene Coluene Cthylbenzene		Flag	QC Prepa	MD Resu <0.003 <0.0093 <0.010	L 1t 50 50 06	mg/ mg/ mg/	its Kg Kg Kg	RL 0.02 0.02 0.02
		Flag	QC Prepa	MD Resu <0.013 <0.0093	L 1t 50 50 06	mg/ mg/	its Kg Kg Kg	RL 0.02 0.02
Prep Batch: (Parameter Benzene Coluene Ethylbenzene Cylene		Flag	QC Prepa	MD Resu <0.003 <0.0093 <0.010	L 1t 50 50 06	mg/ mg/ mg/ Mg/	its Kg Kg Kg	RL 0.02 0.02 0.02
Prep Batch: (Parameter Benzene Foluene Ethylbenzene Kylene Surrogate Frifluorotoluen	61608	Flag		MD Resu <0.013 <0.0093 <0.010 <0.0093	L 50 50 96 30	mg/ mg/ mg/ Spike	its Kg Kg Kg Percent	RL 0.02 0.02 0.02 0.02 0.02 Recovery

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Report Date: July 20, 2 114-6400595	2010	Wc	ork Order: LSAU		915			mber: 23 of 3 ea County, NM
Method Blank (1)	QC Batch: 71884							
QC Batch: 71884 Prep Batch: 61608		Date Ana QC Prep	•	2010-0 2010-0				vzed By: AG ared By: AG
			MD	L				
Parameter	Flag		Resu			Units		RI
GRO			<1.6	35		mg/Kg		2
Surrogate	Flag	Result	Units]	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.61	mg/Kg		1	2.00	130	67.6 - 150
4-Bromofluorobenzene (4-BF'B)	2.46	mg/Kg	5	1	2.00	123	52.4 - 130
Method Blank (1)	QC Batch: 71893							
QC Batch: 71893		Date Ana	alyzed:	2010-0)7-20		Analy	zed By: AR
Prep Batch: 61617		QC Prep	- J	2010-0				red By: AR
			MD	т				
Parameter	Flag		Resu			Units		RL
Chloride			<2.1	.8		mg/Kg		4
Method Blank (1)	QC Batch: 71894							
QC Batch: 71894 Prep Batch: 61618		Date Ana QC Prep		2010-0 2010-0			-	vzed By: AR ared By: AR
riep Datch: 01010		QU Flep	aration.	2010-0	/1~20		тера	ateu Dy. An
-			MD			T T 1 ,		Dr
Parameter Chloride	Flag		Resu <2.1			Units mg/Kg		$\frac{\text{RL}}{4}$
Laboratory Control S	Spike (LCS-1)							
QC Batch: 71872		Date An		2010-0				yzed By: kg
Prep Batch: 61591		QC Prep	aration:	2010-0	07-19		Prep	ared By: kg
	LC	S			Spike	Matrix		Rec.
			nits	Dil.	Amount	Result	Rec.	Limit
Param	Res	iit U	nus	D_{11} .	11110uno		nuce.	Linne

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114-6400595	0				rder: 100719 SAU #25	915			Page Nu L		24 of 30 inty, NM
Param		$\begin{array}{c} { m LCSD} \\ { m Result} \end{array}$	Unit	s Dil	Spike Amount	Matrix Result	Rec.	Re Lir		RPD	RPD Limit
DRO		226	mg/K		250	<14.5	90	57.4 -	133.4	5	20
Percent recovery is based of	on the s	pike result.			on the spike	and spike d	uplicate	e result.			·
	LCS	LCSD				Spike	L	CS	LCSD		Rec.
Surrogate R	lesult	Result		Units	Dil.	Amount	R	.ec.	Rec.		Limit
n-Tricosane	92.0	94.5		mg/Kg	1	100	(92	94		70 - 130
Laboratory Control Spi	ike (LC	CS-1)									
QC Batch: 71883			Date	Analyze	d: 2010-03	7-19			Analy	zed B	y: AG
Prep Batch: 61608			QC P	reparati	on: 2010-0'	7~19			Prepa	red By	y: AG
		LCS	S	·		Spike	Ma	trix			Rec.
Param		Resu		Units	Dil.	Amount		sult	Rec.		Limit
Benzene		2.00		mg/Kg	1	2.00		0150	103		1.9 - 108
Toluene		2.09		mg/Kg	1	2.00		0950	104		l.9 - 107
		0.07	•	mg/Kg	1	2.00	<0	0106	103		3.4 - 107
Ethylbenzene		2.06	Э	mg/rg	1	2.00	<υ.	0100	100	10).u - 101
-		2.06 6.23		mg/Kg	1	6.00)0930	103		
Ethylbenzene Xylene Percent recovery is based o	on the s	6.23	3	mg/Kg	1	6.00	<0.0	0930	104		
Xylene Percent recovery is based o	on the s	6.23 pike result. LCSD	3 RPD	mg/Kg is based	1 on the spike Spike	6.00 and spike d Matrix	<0.0	00930 e result. R	104 	79	9.1 - 107 RPD
Xylene Percent recovery is based o Param	on the s	6.23 pike result. LCSD Result	3 RPD Units	mg/Kg is based	1 on the spike Spike Amount	6.00 and spike d Matrix Result	<0.0 uplicate Rec.)0930 e result. R Li	104 Lec. mit	79 RPD	9.1 - 107 RPD Limit
Xylene Percent recovery is based o Param Benzene	on the s	6.23 pike result. LCSD Result 2.00	3 RPD Units mg/K	mg/Kg is based s Dil. g 1	1 on the spike Spike Amount 2.00	6.00 and spike d Matrix Result <0.0150	<0.0 uplicate Rec. 100	00930 e result. R Li 81.9	104 	79 RPD 3	9.1 - 107 RPD Limit 20
Xylene Percent recovery is based o Param Benzene Toluene	on the s	6.23 pike result. LCSD Result 2.00 2.02	3 RPD Units mg/K mg/K	mg/Kg is based s Dil. g 1 g 1	1 on the spike Amount 2.00 2.00	6.00 and spike d Matrix Result <0.0150 <0.00950	<0.0 uplicate Rec. 100 101	00930 e result. R Li 81.9 81.9	104 	79 RPD 3 3	0.1 - 107 RPD Limit 20 20
Xylene Percent recovery is based of Param Benzene Toluene Ethylbenzene	on the s	6.23 pike result. LCSD Result 2.00 2.02 1.99	3 RPD Units mg/K mg/K mg/K	mg/Kg is based s Dil. g 1 g 1 g 1 g 1	1 on the spike Amount 2.00 2.00 2.00 2.00	6.00 and spike d Matrix Result <0.0150 <0.00950 <0.0106	<0.0 uplicate <u>Rec.</u> 100 101 100	00930 e result. R Li 81.9 81.9 78.4	104 	79 RPD 3 3 3	RPD Limit 20 20 20
Xylene Percent recovery is based o Param Benzene Toluene Ethylbenzene Xylene		6.23 pike result. LCSD Result 2.00 2.02 1.99 6.02	3 RPD Units mg/K mg/K mg/K	mg/Kg is based s Dil. g 1 g 1 g 1 g 1	1 on the spike Amount 2.00 2.00 2.00 6.00	6.00 and spike d Matrix Result <0.0150 <0.00950 <0.0106 <0.00930	<0.0 uplicate Rec. 100 101 100 100	00930 e result. R Li 81.9 81.9 78.4 79.1	104 	79 RPD 3 3	0.1 - 107 RPD Limit 20 20
Xylene Percent recovery is based o Param Benzene Toluene Ethylbenzene Xylene		6.23 pike result. LCSD Result 2.00 2.02 1.99 6.02	3 RPD Units mg/K mg/K mg/K RPD	mg/Kg is based s Dil. g 1 g 1 g 1 g 1	1 on the spike Amount 2.00 2.00 2.00 6.00	6.00 and spike d Matrix Result <0.0150 <0.00950 <0.0106 <0.00930 and spike d	<0.0 uplicate Rec. 100 101 100 100	00930 e result. R Li 81.9 81.9 78.4 79.1	104 	RPD 3 3 3 3	RPD Limit 20 20 20
Xylene Percent recovery is based of Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based of		6.23 pike result. LCSD Result 2.00 2.02 1.99 6.02 pike result.	RPD Units mg/K mg/K mg/K mg/K RPD	mg/Kg is based s Dil. g 1 g 1 g 1 is based	1 on the spike Amount 2.00 2.00 2.00 6.00	6.00 and spike d Matrix Result <0.0150 <0.00950 <0.0106 <0.00930 and spike d	<0.0 uplicate Rec. 100 101 100 100 uplicate	00930 e result. R Li 81.9 81.9 78.4 79.1 e result.	104 ec. - 108 - 107 - 107 - 107	RPD 3 3 3 3	RPD Limit 20 20 20 20
Xylene		6.23 pike result. LCSD Result 2.00 2.02 1.99 6.02 pike result. LCS	3 RPD mg/K mg/K mg/K mg/K Rg/D RPD 5 It	mg/Kg is based g 1 g 1 g 1 g 1 is based LCSD	$ \frac{1}{\text{on the spike}} $ Spike Amount 2.00 2.00 2.00 6.00 on the spike	6.00 and spike d Matrix Result <0.0150 <0.00950 <0.0106 <0.00930 and spike d Sp Dil. Am	<0.0 uplicate <u>Rec.</u> 100 101 100 100 uplicate bike	00930 e result. R Li 81.9 81.9 78.4 79.1 e result. LCS	104 ec. - 108 - 107 - 107 - 107 LCSD	79 RPD 3 3 3 3 3	RPD Limit 20 20 20 20 20 Rec.
Xylene Percent recovery is based of Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based of Surrogate	on the s	6.23 pike result. LCSD Result 2.00 2.02 1.99 6.02 pike result. LCS Resu	3 RPD mg/K mg/K mg/K mg/K RPD 5 1 lt I	mg/Kg is based g 1 g 1 g 1 g 1 is based LCSD Result	1 on the spike <u>Amount</u> 2.00 2.00 2.00 6.00 on the spike Units	$\begin{array}{c} 6.00 \\ \hline \text{and spike d} \\ \hline \text{Matrix} \\ \text{Result} \\ < 0.0150 \\ < 0.00950 \\ < 0.0106 \\ < 0.00930 \\ \text{and spike d} \\ \hline \text{Sp} \\ \hline \text{Dil.} & \text{Am} \\ 1 & 2. \end{array}$	<0.0 uplicate Rec. 100 101 100 100 uplicate oike ount	00930 e result. R Li 81.9 81.9 78.4 79.1 e result. LCS Rec.	104 ec. - 108 - 107 - 107 - 107 - 107 LCSD Rec.	79 RPD 3 3 3 3 3 70	RPD Limit 20
Xylene Percent recovery is based of Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based of Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Laboratory Control Spi QC Batch: 71884	on the sp BFB)	6.23 pike result. LCSD Result 2.00 2.02 1.99 6.02 pike result. LCS Resu 2.27 2.32	3 RPD Units mg/K mg/K mg/K RPD 5 1 1t 1 2 Date	mg/Kg is based g 1 g 1 g 1 g 1 is based LCSD Result 2.06	1 on the spike Amount 2.00 2.00 6.00 on the spike Units mg/Kg mg/Kg mg/Kg ng/Kg 1 2010-07	6.00 and spike d Matrix Result <0.0150 <0.00950 <0.0106 <0.00930 and spike d Sp Dil. Am 1 2. 1 2.	<0.0 uplicate Rec. 100 101 100 100 uplicate oike ount .00	00930 e result. R Li 81.9 78.4 79.1 e result. LCS Rec. 114	104 ec. mit - 108 - 107 - 107 - 107 - 107 LCSD Rec. 103 103	79 RPD 3 3 3 3 3 70	0.1 - 107 RPD Limit 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 Rec. Limit 0.2 - 114 0.8 - 121
Xylene Percent recovery is based of Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based of Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Laboratory Control Spi QC Batch: 71884	on the sp BFB)	6.23 pike result. LCSD Result 2.00 2.02 1.99 6.02 pike result. LCS Resu 2.27 2.32	3 RPD mg/K mg/K mg/K RPD 5 1 1t 7 2 Date QC P	mg/Kg is based s Dil. g 1 g 1 g 1 is based LCSD Result 2.06 2.06	1 on the spike Amount 2.00 2.00 6.00 on the spike Units mg/Kg mg/Kg l: 2010-07	6.00 and spike d Matrix Result <0.0150 <0.00950 <0.0106 <0.00930 and spike d Sp Dil. Am 1 2. 1 2.	<0.0 uplicate Rec. 100 101 100 100 uplicate oike ount .00 .00	00930 e result. R Li 81.9 78.4 79.1 e result. LCS Rec. 114	104 ec. mit - 108 - 107 - 107 - 107 - 107 LCSD Rec. 103 103	RPD 3 3 3 3 70 69 zed By red By	0.1 - 107 RPD Limit 20 20 20 20 20 Rec. Limit 0.2 - 114 0.8 - 121
Xylene Percent recovery is based of Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based of Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Laboratory Control Spi QC Batch: 71884	on the sp BFB)	6.23 pike result. LCSD Result 2.00 2.02 1.99 6.02 pike result. LCS Resu 2.27 2.32	3 RPD mg/K mg/K mg/K RPD 5 1 lt 7 2 Date QC P S	mg/Kg is based s Dil. g 1 g 1 g 1 is based LCSD Result 2.06 2.06	1 on the spike Amount 2.00 2.00 6.00 on the spike Units mg/Kg mg/Kg l: 2010-07	6.00 and spike d Matrix Result <0.0150 <0.00950 <0.0106 <0.00930 and spike d Sp Dil. Am 1 2. 1 2.	<0.0 uplicate Rec. 100 101 100 uplicate oike ount .00 .00	00930 e result. R Li 81.9 81.9 78.4 79.1 e result. LCS Rec. 114 116	104 ec. mit - 108 - 107 - 107 - 107 - 107 LCSD Rec. 103 103	RPD 3 3 3 3 3 3 2 70 69 22ed By red By	0.1 - 107 RPD Limit 20 20 20 20 Rec. Limit 0.2 - 114 0.8 - 121 y: AG y: AG

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Param	LCSD Result	Units	Dil.	Spike Amount	t_R	atrix esult	Rec.	Rec Lim	it	RPD	RPD Limit
GRO	16.2	mg/Kg		20.0		1.65	81	69.9 -	95.4	2	20
Percent recovery is based on the s	spike result.	RPD is	based or	n the spike	e and s	spike du	plicate	result.			
	LCS	5 10	CSD			Spi	ke	LCS	LCSI)	Rec.
Surrogate	Resu		sult	Units	Dil.	Amo		Rec.	Rec.		Limit
Trifluorotoluene (TFT)	2.52			mg/Kg	1	2.0		126	130		.9 - 142
4-Bromofluorobenzene (4-BFB)	2.39			mg/Kg	1	2.0	0	120	126	68	8.2 - 132
Laboratory Control Spike (LG QC Batch: 71893 Prep Batch: 61617	CS-1)		nalyzed: paration							yzed By ared By	,
_						Spike		atrix	-		Rec.
Param	Res		Units		A	mount		esult	Rec		Limit
Chloride	97		mg/Kg	1	<u>-</u>	100		2.18	98		85 - 115
Percent recovery is based on the s	pike result.	RPD is	based or	n the spike	e and s	spike du	plicate	result.			
	LCSD			Spike	e I	Matrix		Re	c.		RPD
Param	Result	Units	Dil.	Amour	nt i	Result	Rec.	Lin	nit	RPD	Limit
CO 1 1 1	100	1 * *									
Chloride	100	mg/Kg	<u>g 1</u>	100		<2.18	100	85 -	115	2	20
Chloride Percent recovery is based on the s	pike result.				··				115	2	20
Percent recovery is based on the s	pike result.	RPD is	based or	n the spike	e and s						
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894	pike result.	RPD is Date A	based or nalyzed:	1 the spike 2010-0'	e and s 7-20				Anal	yzed B	y: AR
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894	pike result.	RPD is Date A	based or	1 the spike 2010-0'	e and s 7-20				Anal		y: AR
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618	pike result. CS-1) LC	RPD is Date Ar QC Pre S	based or nalyzed: paration	2010-0' 2010-0' 2010-0'	and s 7-20 7-20	spike du Spike	plicate 1	result. atrix	Anal Prepa	yzed By ared By	y: AR 7: AR Rec.
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param	pike result. CS-1) LC Resu	RPD is Date Ai QC Pre S ilt	based or nalyzed: paration Units	2010-0' 2010-0' 2010-0' Dil.	and s 7-20 7-20	spike du Spike amount	plicate 1 Ma Re	atrix esult	Anal Prep Rec	yzed By ared By	y: AR 7: AR Rec. Limit
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param Chloride	pike result. CS-1) LC Ress 97.	RPD is Date An QC Pre S 1lt 9	based or nalyzed: paration Units mg/Kg	2010-0' 2010-0' : 2010-0' Dil. 1	e and s 7-20 7-20 A	Spike du Spike mount 100	plicate Ma Ra <	atrix esult 2.18	Anal Prepa	yzed By ared By	y: AR 7: AR Rec. Limit
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param Chloride	pike result. CS-1) LC Resu 97. pike result.	RPD is Date An QC Pre S 1lt 9	based or nalyzed: paration Units mg/Kg	2010-0' 2010-0' 2010-0' Dil. 1 1 the spike	e and s 7-20 7-20 A e and s	Spike du Spike mount 100 spike du	plicate Ma Ra <	atrix esult 2.18 result.	Anal; Prepa Rec 98	yzed By ared By	y: AR 7: AR Rec. Limit 85 - 115
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param Chloride Percent recovery is based on the s	pike result. CS-1) LC Resu 97. pike result. LCSD	RPD is Date An QC Pre S Ilt 9 RPD is	based or nalyzed: paration <u>Units</u> mg/Kg based or	2010-0' 2010-0' 2010-0' Dil. 1 n the spike Spike	e and s 7-20 7-20 A e and s	spike du Spike mount 100 spike du Matrix	Ma Re c plicate p	atrix esult 2.18 result. Re	Anal; Prepa Rec 98	yzed By ared By	y: AR 7: AR Rec. Limit 85 - 115 RPD
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param Chloride Percent recovery is based on the s Param	pike result. CS-1) LC Resu 97. pike result. LCSD Result	RPD is Date An QC Pre S Ilt 9 RPD is Units	based or nalyzed: paration <u>Units</u> mg/Kg based or Dil.	2010-0' 2010-0' 2010-0' Dil. 1 the spike Amour	e and s 7-20 7-20 A e and s e nt	spike du Spike umount 100 spike du Matrix Result	Ma Re plicate 1 Rec.	atrix esult 2.18 result. Re Lim	Anal; Prepa Rec 98 c. nit	yzed By ared By	y: AR 7: AR Limit 85 - 115 RPD Limit
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param Chloride Percent recovery is based on the s Param Chloride	pike result. CS-1) LC Resu 97. pike result. LCSD Result 101	RPD is Date An QC Pre S Ilt 9 RPD is Units mg/Kg	based or nalyzed: paration Units mg/Kg based or Dil. 5 1	2010-0' 2010-0' 2010-0' Dil. 1 1 the spike Amour 100	e and s 7-20 7-20 A e and s e nt 1	Spike mount 100 spike du Matrix Result <2.18	Ma Re c plicate p Rec. 101	atrix esult 2.18 result. Re Lin 85 -	Anal; Prepa Rec 98 c. nit	yzed By ared By	y: AR 7: AR Rec. Limit 85 - 115 RPD
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param Chloride	pike result. CS-1) LC Resu 97. pike result. LCSD Result 101	RPD is Date An QC Pre S Ilt 9 RPD is Units mg/Kg	based or nalyzed: paration Units mg/Kg based or Dil. 5 1	2010-0' 2010-0' 2010-0' Dil. 1 1 the spike Amour 100	e and s 7-20 7-20 A e and s e nt 1	Spike mount 100 spike du Matrix Result <2.18	Ma Re c plicate p Rec. 101	atrix esult 2.18 result. Re Lin 85 -	Anal; Prepa Rec 98 c. nit	yzed By ared By	y: AR 7: AR Limit 85 - 115 RPD Limit
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param Chloride Percent recovery is based on the s Param Chloride Percent recovery is based on the s	pike result. CS-1) LC Resu 97. pike result. LCSD Result 101	RPD is Date An QC Pre S Ilt 9 RPD is <u>Units</u> mg/Kg RPD is	based or nalyzed: paration Units mg/Kg based or Dil. 5 1	2010-0' 2010-0' 2010-0' Dil. 1 1 the spike Amour 100	e and s 7-20 7-20 A e and s e nt 1	Spike mount 100 spike du Matrix Result <2.18	Ma Re c plicate p Rec. 101	atrix esult 2.18 result. Re Lin 85 -	Anal; Prepa Rec 98 c. nit	yzed By ared By	y: AR 7: AR Rec. Limit 85 - 115 RPD Limit
Percent recovery is based on the s Laboratory Control Spike (LC QC Batch: 71894 Prep Batch: 61618 Param Chloride Percent recovery is based on the s Param Chloride Percent recovery is based on the s	pike result. CS-1) LC Resu 97. pike result. LCSD Result 101 pike result.	RPD is Date An QC Pre S ult 9 RPD is Mg/Kg RPD is 8016	based or nalyzed: paration Units mg/Kg based or Dil. 5 1	2010-0' 2010-0' 2010-0' Dil. 1 1 the spike Amour 100 the spike	e and s 7-20 7-20 A e and s and s	Spike mount 100 spike du Matrix Result <2.18	Ma Re c plicate p Rec. 101	atrix esult 2.18 result. Re Lin 85 -	Anal; Prepa Rec 98 c. nit 115	yzed By ared By	y: AR 7: AR Rec. Limit 85 - 11: RPD Limit 20

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114-6400595				LS	AU #25				L	ea Cou	nty, NN
Param		M Res		Units	Dil.	Spike Amount	Matri Resul		Rec.		Rec. Jimit
DRO		22	4 n	ng/Kg	1	250	<14.	5	90	35.2	- 167.1
Percent recovery is bas	ed on the s	pike result			on the spike	and spike d	uplicate r	esult.			
		MSD			Spike	Matrix		Re	ec.		RPD
Param		Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	Lir	nit	RPD	Limit
DRO		232	mg/Kg	1	250	<14.5	93 3	35.2 -	167.1	4	20
Percent recovery is bas	ed on the s	pike result	RPD is	based o	on the spike	and spike d	uplicate r	esult.			
	MS	MSD				Spike	Μ	S	MSD		Rec.
Surrogate	Result	Resul	t T	Jnits	Dil.	Amount	Re	c.	Rec.		Limit
n-Tricosane	98.9	97.9	m	g/Kg	1	100	99)	98		70 - 130
		MS				Spike	Matr				Rec.
Param		Resi		Units	Dil.	Amount	Resu	lt	Rec.		Limit
Benzene		2.0	4 m	ng/Kg	1	2.00	< 0.01	50 -	102	80	.5 - 112
Toluene		2.1		ıg/Kg	1	2.00	< 0.009		105		.4 - 113
Ethylbenzene		2.1		ıg/Kg	1	2.00	< 0.01		108		.9 - 114
Xylene		6.4	9 m	lg/Kg	1	6.00	< 0.00	930	108	84	4 - 114
Percent recovery is base	ed on the sp	oike result.	RPD is	based o	n the spike	and spike d	iplicate r	esult.			
~		MSD	TT 1	D 11	Spike	Matrix	D		lec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.			RPD	Limit
Benzene	1	$\begin{array}{c} 2.21 \\ 2.27 \end{array}$	mg/Kg	1	$\begin{array}{c} 2.00\\ 2.00\end{array}$	<0.0150 <0.00950	$\frac{110}{114}$		- 112 - 113	8	$\frac{20}{20}$
Laluana	2	2.27 2.35	mg/Kg mg/Kg	1 1	2.00 2.00	< 0.00950	114		- 113 - 114	8 8	$\frac{20}{20}$
Toluene Ethylbengene			mg/Kg	1	2.00 6.00	<0.00930	118		- 114 - 114	9	$\frac{20}{20}$
Ethylbenzene	3	7.08									
	3	7.08 pike result.		based o	n the spike	and spike d	ipicate r	esult.			
Ethylbenzene Xylene	3		RPD is	based o ISD	n the spike	-	picate r	esult. MS	MSD		Rec.
Ethylbenzene Xylene Percent recovery is base Surrogate	3	oike result.	RPD is 5 M		Units	S	oike		MSD Rec.]	Limit
Ethylbenzene Xylene Percent recovery is base	3 ed on the sp	oike result. M	RPD is 5 M 1lt Re 2 1	ISD	-	S	oike	MS		41	

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Matrix Spike (MS-1) Spiked Sa QC Batch: 71884 Prep Batch: 61608 Param GRO	-	Date A	a shunda							
Prep Batch: 61608 Param GRO	1		a a laura de							
GRO	МС	QU I I	reparation	2010-07- 2010-07-				Analyz Prepar		
GRO	Resul	÷	Units	Dil.	Spike Amount	Ma Res		Rec.		Rec. Limit
······································	<u>15.3</u>		mg/Kg	<u>1</u>	20.0	<1		76		.8 - 114
Percent recovery is based on the spike										
• -				-	-	.prioace				nnn
	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec Limi		PD	RPD Limit
GRO		mg/Kg		20.0	<1.65	80	61.8 -		<u>5</u>	20
Percent recovery is based on the spike									,	
				1	-	-		MOD		Dee
Surrogate	MS Resul		MSD Result	Units		lpike nount	MS Rec.	MSD Rec.		Rec. Limit
Trifluorotoluene (TFT)	1.79			mg/Kg	1	2	90	<u>96</u>		1000000000000000000000000000000000000
4-Bromofluorobenzene (4-BFB)	1.81			mg/Kg	1	$\frac{2}{2}$	90	96		50 - 16
QC Batch: 71893 Prep Batch: 61617										
rrep balch: 01017			Analyzed:	2010-07-2				Analyz	•	
-	(Analyzed: eparation:					Analyz Prepar	•	
	MS		eparation:	2010-07-2			atrix		•	r: AR Rec.
	MS Resul	QC Pro	eparation: Units	2010-07-2 Dil.	20 Spike Amount	Re	esult	Prepare Rec.	ed By	r: AR Rec. Limit
Chloride	MS Resul 10800	QC Pro	eparation: Units mg/Kg	2010-07-2 Dil. 100	20 Spike Amount 10000	Re	esult 184	Prepar	ed By	r: AR Rec. Limit
Chloride	MS Resul 10800	QC Pro	eparation: Units mg/Kg	2010-07-2 Dil. 100	20 Spike Amount 10000	Re	esult 184	Prepare Rec.	ed By	r: AR Rec. Limit
Chloride Percent recovery is based on the spike	MS Resul 10800	QC Pro	eparation: Units mg/Kg	2010-07-2 Dil. 100	20 Spike Amount 10000	Re	esult 184	Prepare Rec. 103	ed By	r: AR Rec. Limit 85 - 113 RPE
Param	MS Resul 10800 e result. F MSD Result	QC Pro	Units Mg/Kg based on bal.	2010-07-2 Dil. 100 the spike a	20 Spike Amount 10000 nd spike du	Re	esult 184 result.	Prepar Rec. 103	ed By	r: AR Rec.

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Report Date 114-6400593), 2010	Woi	ck Order: 10071 LSAU #25	.915	Page	Number: Lea Cou	
		MSD		Spik		Rec.		RPD
Param		Result		Dil. Amou		Rec. Limit	RPD	Limi
Chloride		10400	mg/Kg	100 1000	0 <218	104 85 - 115	4	20
Percent reco	overy is ba	ased on the spike resu	lt. RPD is ba	used on the spik	e and spike dup	blicate result.		
Standard ((CCV-1)							
QC Batch:	71872		Date Ana	lyzed: 2010-0	7-19	А	nalyzed E	3y: kg
			CCVs	CCVs	CCVs	Percent		
x			True	Found	Percent	Recovery		Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Ar	nalyzed
DRO		mg/Kg	250	205	82	80 - 120		0-07-1
Standard ((CCV-2)							
QC Batch:	71872		Date Ana	lyzed: 2010-0	7-19	A	nalyzed B	By: kg
			\mathbf{CCVs}	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery		Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits		nalyzed
DRO		mg/Kg	250	248	. 99	80 - 120	201	0-07-1
Standard (CCV-3)							
QC Batch:	71872		Date Ana	lyzed: 2010-0	7-19	A	nalyzed B	ly: kg
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery		Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits		nalyzec
DRO		mg/Kg	250	253	101	80 - 120	201	10-07-1
Standard (CCV-1)							
QC Batch:	71883		Date Anal	yzed: 2010-07	-19	An	alyzed By	∕: ÅG
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery		Date
Param		Flag Units	Conc.	Conc.	Recovery	Limits		nalyzed
Benzene		mg/Kg	0.100	0.0946	95	80 - 120		0-07-1
Toluene		mg/Kg	0.100	0.0975	98	80 - 120		0-07-1
Ethylbenzene	e	mg/Kg	0.100	0.0978	98	80 - 120		0-07-1
Xylene		mg/Kg	0.300	0.298	99	80 - 120	201	0-07-1

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 $= \frac{1}{2} \sum_{i=1}^{n-1} \frac{1}{2} \sum_{i=1}^{n$

Report Date 114-6400595	e: July 20, 20	10	Worl	Corder: 10071 LSAU #25	915		umber: 29 of 30 Lea County, NM
Standard (CCV-2)						
QC Batch:	71883		Date Analy	yzed: 2010-07	-19	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	g Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.102	102	80 - 120	2010-07-19
Foluene		mg/Kg	0.100	0.103	103	80 - 120	2010-07-19
Ethylbenzen	e	mg/Kg	0.100	0.102	102	80 - 120	2010-07-19
Xylene		mg/Kg	0.300	0.307	102	80 - 120	2010-07-19
Standard (CCV-3)						
QC Batch:	71883		Date Analy	vzed: 2010-07-	-19	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0997	100	80 - 120	2010-07-19
Toluene		mg/Kg	0.100	0.100	100	80 - 120	2010-07-19
Ethylbenzen	е	mg/Kg	0.100	0.0992	99	80 - 120	2010-07-19
Xylene	-	mg/Kg	0.300	0.300	100	80 - 120	2010-07-19
Standard (QC Batch:	-		Date Analy	vzed: 2010-07-	19	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.10	110	80 - 120	2010-07-19
Standard (CCV-2)						
QC Batch:	71884		Date Analy	vzed: 2010-07-	19	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.993	99	80 - 120	2010-07-19
Standard ((CCV-3)						
QC Batch:			Data Analy	zed: 2010-07-	10	1 1	mod Pro AC
	(1004		Date Analy	zea: 2010-07-	19	Analy	zed By: AG

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Report Dat 114-640059	te: July 20, 20 5)10	Wo	rk Order: 1007 LSAU #25	1915		umber: 30 of 3 Lea County, NM			
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date			
Param GRO	Flag	Units mg/Kg	<u>Conc.</u> 1.00	<u> </u>	Recovery 98	Limits 80 - 120	Analyzed 2010-07-19			
GhU		ing/Kg	1.00	0.980	90	80 - 120	2010-07-13			
Standard	(ICV-1)				,					
QC Batch:	71893		Date Ana	lyzed: 2010-03	7-20	Anal	yzed By: AR			
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date			
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
Chloride	Ÿ	mg/Kg	100	101	101	85 - 115	2010-07-2			
Standard QC Batch:				lyzed: 2010-07		Anal	yzed By: AR			
			\mathbf{CCVs}	CCVs	CCVs	Percent				
			True	Found	Percent	Recovery	Date			
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
Chloride		mg/Kg	100	99.1	99	85 - 115	2010-07-2			
Standard	(ICV-1)									
QC Batch:	71894		Date Ana	lyzed: 2010-07	7-20	Analyzed By: AR				
			ICVs	ICVs	ICVs	Percent				
			True	Found	Percent	Recovery	Date			
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
Chloride		mg/Kg	100	98.9	99	85 - 115	2010-07-2			
Standard	(CCV-1)									
QC Batch:	71894		Date Ana	lyzed: 2010-07	7-20	Anal	yzed By: AR			
			CCVs	CCVs	CCVs	Percent				
			True	Found	Percent	Recovery	Date			
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
Chloride		mg/Kg	100	101	101	85 - 115	2010-07-2			

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			ľ		Ŗ	TETRATECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946								5 (Ext. to C35)	i Cr Pb Hg Se	i Vr Pd Hg Se	TCLP Volatiles							No.;			
CLIENT NAM	ЛЕ: 					SITE MANAGER:	ş	Π	P			ATIVE		TX1005	Ŭ	а С			409	/625					H		
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						7		<u> </u>						-				(C				REQ ify M			o.)			
						Midland, Te (432) 682-4559	xas 79705 • Fax (432) 682-3946				<u>-</u>				105 (Ext. to C35)	d Cr Pb Hg	d Vr Pd				5					, TDS		
CLIENT NAM						SITE MANAG			SE	1		SER			MOD TX1005	Ba	Ba			0/624	70/62					E		
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LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP	GRAB		Lea Co NM PLE IDENTIFICATION		NUMBER OF CONTAINERS	HCL	HN03	ICE	NONE	BTEX 8021B	TPH 8015	RCRA Meta	TCLP Meta	TCLP Volatiles	RCI	GC.MS Vol.	GC.MS Sen	Pest. 808/608	Chloride	Gamma Sp	Alpha Bera (Alr) PLM (Asbestos)	Major Aniona/Cations, pH, TDS		
230010	7/15		5		X	AH-3	1-1.5		1	1		X	\prod		X				Ţ				À					
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CONTACT: SAMPLE CONDI	1.1+	acl			HONE	REMARKS:	W copy - Return Orginal co		TIME						L_											Yes		No

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APPENDIX C

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E. W.	District II Energy Minerals	New Mex and Natura	Resources 18	29 30 3 A	31-123	Revised O	Form C-141 ctober 10, 2003								
	District III Oil Conse 1000 Rio Brazos Road, Aztec, NM 87410 1220 Sout District IV 1220 Sout	rvation Div h St. Franc e, NM 875	Submit 2 Copies District Office with Rul o	to appropriate in accordance le 116 on back side of form											
à	Release Notificatio		05 N orrective A	Rece ction	DS D	07									
and the second			ATOR	00		itial Report	Final Report								
Ø	Name of Company Chevron Midcontinent LP		arry Ridenour ?		n alt	2									
	Address HCR 60 Box 423 Lovington, N.M. 88260 Facility Name Lovington San Andres Unit #25	Facility Typ	No. 505-396-44 e Injection Tr												
_	Surface Owner City of Lovington Mineral Owner	State of NM			Lease N	lo. B1505									
42.00	LOCATION OF RELEASE														
	Unit Letter Section Township Range Feet from the	n Line	Feet from the 1980	East L	ine	County Lea									
a c	Latitude_N 32 deg 52 min 23.45 sec Longitude_W 103 deg 18 min 20.78 sec 0.378.2														
	NA	TURE O	FRELEASE		I #3002										
	Type of Release Produced water Source of Release injection trunk line		Release 20 BW lour of Occurrenc	e	Volume R Date and	Lecovered .5 bbl Hour of Discovery	fluids.								
N.	Was Immediate Notice Given?	07/24/07			07/26/07										
Land The C	Yes No Not Required														
	By Whom? Larry Ridenour Was a Watercourse Reached?	Date and Hour 7/26/2007 4:00 P.M. If YES, Volume Impacting the Watercourse.													
N.S. W.	Yes X No		and mpacing t												
	If a Watercourse was Impacted, Describe Fully.*														
2012 m 12															
	2" high pressure fiberglass line had a small crack in it due to what appears to be improved and final another will be turned over and														
2	Chlorides 35,300														
and the second	Describe Area Affected and Cleanup Action Taken.* Fluid soaked in ground. ½ BBL water was picked up with vacuum truck		••	-											
	I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release a public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and ne NMOCD m te contaminati	nd perform correc arked as "Final Re on that pose a thre	tive acti eport" d eat to gr	ons for rele oes not reli ound water	eases which may e eve the operator o , surface water, hu	ndanger f liability ıman health								
Egg ga t	Signature: Day D Rid		OIL CONS	-	ATION	<u>DIVISION</u>									
8 9 2	Printed Name: Larry Ridenour	Approved by	District Supervise		7.0.										
" Thursday		Amur			-1	0 71 0	7								
ß	Title: Operations Representative		e: 7.31.07		expiration I	Date: 8.31.0									
Tes to ano	E-mail AddressLRidenour@chevron.com	Conditions of				Attached									
_	Date: 7/27/2007 Phone: 396-4414 X 102	FILM C.		wert	nto->E	M./	the l								
	· .					Rf	17+1504								