

Jason Michelson Project Manager Chevron Environmental Management Company 1500 Louisiana Street, #38116 Houston, Texas 77002 Work: 832-854-5601 Cell: 281-660-8564 jmichelson@chevron.com

July 15, 2019

Mr. Rob Hamlet New Mexico Oil Conservation Division, District II 811 S. First St Artesia, NM 88210

Re: Reid Well No. 1 Closure Request NMOCD Case No. 2RP-3981 Eddy County, New Mexico

Dear Mr. Hamlet,

Please find enclosed for your files, copies of the following documents:

- Reid Well No. 1 July 15, 2019 Closure Request
- Reid Well No. 1 Work Plan (White Buffalo Environmental Services, Inc (WBESI) Work Plan)
- Reid Well No. 1 Laboratory Analytical Reports

The Work Plan was prepared by WBESI for the 2RP-3981 release on behalf of Range Operating New Mexico Inc (Range) and previously submitted to the New Mexico Oil Conservation District (NMOCD) on February 24, 2006. WBESI collected eleven (11) soil samples in response to the release in April and May 2006. No additional file information has been located. Chevron acquired the lease for this well location in October 2018.

The Closure Request was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC). CEMC is respectfully requesting reviewal and written NMOCD approval for closure at the Site.

Please do not hesitate to call Rebecca Andresen with Arcadis at 206-726-4717 or myself at 832-854-5601, should you have any questions.

Sincerely,

Jan Mila-

Jason Michelson

cc Brett Krehbiel, Arcadis



Mr. Rob Hamlet New Mexico Oil Conservation Division - District II Environmental Specialist 811 S. First St. Artesia, NM 88210

Subject:

Closure Request Reid Well No. 1 Release NMOCD Case No. 2RP-3981 Eddy County, New Mexico

Dear Mr. Hamlet:

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this Closure Request (Request) for the Reid Well No. 1 (Site), API No. 30-015-26528, located in Eddy County, New Mexico. Range Operating New Mexico, Inc (Range) a previous owner this well, notified New Mexico Oil Conservation District (NMOCD) of a release on April 16, 2006. Chevron acquired the lease for this well in October 2018.

The purpose of the Request is to summarize known follow up actions from the release on April 16, 2006, and to respectfully request review and written NMOCD approval for closure at the Site.

SITE DESCRIPTION AND BACKGROUND

The Site is located approximately 1.5 miles from Loving in Unit O, Section 14, Township 23S, Range 28E, Eddy County, New Mexico, on private land.

On February 16, 2006, a release was discovered at the Site due to an open 1" ball valve on the circulating pump. According to the initial Form C-141 form, approximately 58 barrels (bbls) was released and contained within the firewall. Initial response included coordinating with a vacuum truck to remove standing fluids, the C-141 form indicated that 58 bbls were recovered. A work plan dated February 24, 2006 was submitted to NMOCD by White Buffalo Environmental Services, Inc. (WBESI) on behalf of Ranger; the plan is included as Attachment 2.

Arcadis U.S., Inc. 630 Plaza Drive Suite 100 Highlands Ranch Colorado 80129 Tel 720 344 3500 Fax 720 344 3535 www.arcadis.com

ENVIRONMENTAL

Date: July 15, 2019July 15, 2019

Contact: Rebecca Andresen

Phone: 206-726-4717

Email: Rebecca.Andresen@arcadis .com

Our ref: B0049810.0000 New Mexico Oil Conservation Division II July 15, 2019

Between February 7, and March 9, 2006, WBESI collected and analyzed soil samples following excavation activities. The collected soil samples include side wall and bottom samples. Copies of the laboratory analytical reports are included in Attachment 3. No additional file information, including a summary of the remediation activities, could be located. It is noted, however, that the laboratory analytical reports were submitted to NMOCD along with other documentation that is no longer available. Due to the length of time since the release, we are respectfully requesting a review of the documentation and written NMOCD approval for closure at the Site.

Sincerely,

Arcadis U.S., Inc.

Andusu

Rebecca Andresen Vice President

Copies: Jason Michelson, Chevron/CEMC

Enclosures:

Attachments

- 1 Reid 001 Release Form C-141
- 2 WBESI Work Plan dated February 24, 2006
- 3 Laboratory Analytical Reports

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	1000 Rio Brazo District IV				1220) Sout	h St. Franc	sis Dr.			District C wit	h Rul	e 116 on back
	1220 S. St. Fran		·	5	S	anta F	e, NM 875	505		-m •			side of form
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	Address: 7	77 Main S	Street Suite	800 Ft.	Worth Tx 76		^	No: (817) 810- e: Tank Batter					^
		·							.y				
	Surface Ow	ner: John	ny L Reid&J	ackie L F	Reid Mineral	Owner	: See Attach	led		Lease N	lo: 300267		
					LOCA		N OF REI	LEASE					
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	1" Ball Valve Was Immedia						2-16-06 9:45 AM MST 2-16-06 9:45 AM MST If YES, To Whom?			<u> </u>			
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	By Whom? R	udy Garcia					Date and H	our: 2-16-06 9:4	5 AM	MST			
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	Signature:											-	
	Printed Name:	Linda C.	Stiles			A	Approved by I	District Superviso	IM G by N	MB M	Lame.	sen.	
	Title: Sr. Eng					A	pproval Date	c/13/a	E	Expiration D	ate:		,
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NEW MEXICO ENERGY, MERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

Range Operating New Mexico, Inc. 777 Main Street Suite 800 Ft. Worth, TX 76102 June 13, 2006

Reference: Reid 001 Tank Battery O-14-23s-28e API: 30-015-26528

Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of an Initial Report Form C-141 reporting a release of produced fluids that occurred on 2/16/2006 at the above referenced well site. A remediation work plan proposal has been formulated and submitted to the OCD by your agent, White Buffalo Environmental Services, Inc.

The work plan proposal submitted is approved with the following general stipulations:

- Notify the OCD 24 hours prior to commencement of activities.
- Notify the OCD 24 hours prior to obtaining samples where analyses of samples obtained are to be submitted to the OCD.
- The OCD may make amendments to work plan stipulations at any time as conditions warrant.
- Submit a Final Report C-141 upon satisfactory completion of remediation project.
- Site is to be ready for confirmation sampling for closure no later than August 14, 2006. If for any reason this deadline cannot be met, please contact this office.

For future reference when submitting a Form C-141, please submit a copy signed by an authorized representative of your company. The C-141 submitted for this release indicates a release volume of 58 bbls and a recovery volume of 58 bbls. Realizing that these volumes are usually estimates, it would generally be unlikely to recover 100 percent of fluids released.

Please be advised that NMOCD approval of this work plan proposal does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health, or the environment. In addition, NMOCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I can be of assistance in this matter please contact me.

Sincerely, Mila Bennann

Mike Bratcher NMOCD District 2 1301 W. Grand Ave. Artesia, NM 88210 (505) 748-1283 Ext. 108 (505) 626-0857 <u>Mike.Bratcher@state.nm.us</u>

CC EMAile Operator Oil Conservation Division * 1220 South St. Francis Drive * Santa Fe, New Mexico 87505 "Greg Swindle /Phone: (505) 476-3440 * Fax (505) 476-3462 * <u>http://www.emnrd.state.nm.us</u> HARA Copy mulled to operator DMA Sod

30-015-26528

February 24, 2006

NMOCD District 2 Office Oil Conservation Division Chris Beadle 1301 West Grand Artesia, New Mexico 88210

RE: Range Operating New Mexico, Inc. Inspection, Reid Battery

Chronology

On February 16, 2006 a spill was discovered at the Range Operating New Mexico, Inc. (Range) site Reid Battery. The spill had occurred when a 1" ball valve was open at the circulating pump. The failure resulted in the loss of approximately 58 barrels of oil and produced water. Approximately 58 barrels of fluids were recovered from inside the firewall. The spill appears to have been completely contained inside the firewall. The site was assessed for a formal work plan and specific site information obtained. WBESI uses the attached information and metrics sheet for summarizing the remediation requirements for this site.

The following is an initial "Remediation Work Plan" for this site:

<u>Reid Battery</u>

General site characteristics Depth to Ground Water: 44' Wellhead Protection Area: 250' to closest well Distance to Nearest Surface Water Body: 1000 yards Site ranking score: 40

Soil remediation action levels

Highly Contaminated / Saturated Soils Benzene 10 ppm, 50 BTEX ppm, TPH 100 ppm

Soil remediation methods

Excavation and disposal (or alternative approved onsite remediation)

Planned analytical testing

BTEX, TPH, Chlorides on soil

Work Plan

- Continue excavation until limits are obtained in a vertical and horizontal direction.
- Sample site for above parameters.
- Determine quantity of spoils removed from the excavated area.

30-015-26522

- Determine most cost effective means of disposal or onsite bioremediation in accordance with NMOCD "Guidelines for Remediation of Leaks, Spills, and Releases".
- Contact NMOCD to set up sampling and post remediation inspection.
- Review analytical results.
- Backfill excavation if limits have been achieved or continue excavation.
- Sampling will be per NMOCD guidance including all walls and floor of the excavation.
- A final report will be issued on behalf of Range to the NMOCD documenting all final activities.
- A final letter of concurrence and closure will be issued by NMOCD if all guidelines have been achieved.

For further questions or comments please contact White Buffalo Environmental Services, Inc. at (325) 651-9054.

Greg Swindle, President WBESI

Enclosures:

Information and Metrics sheet USGS Map Aerial Photo Site Photographs

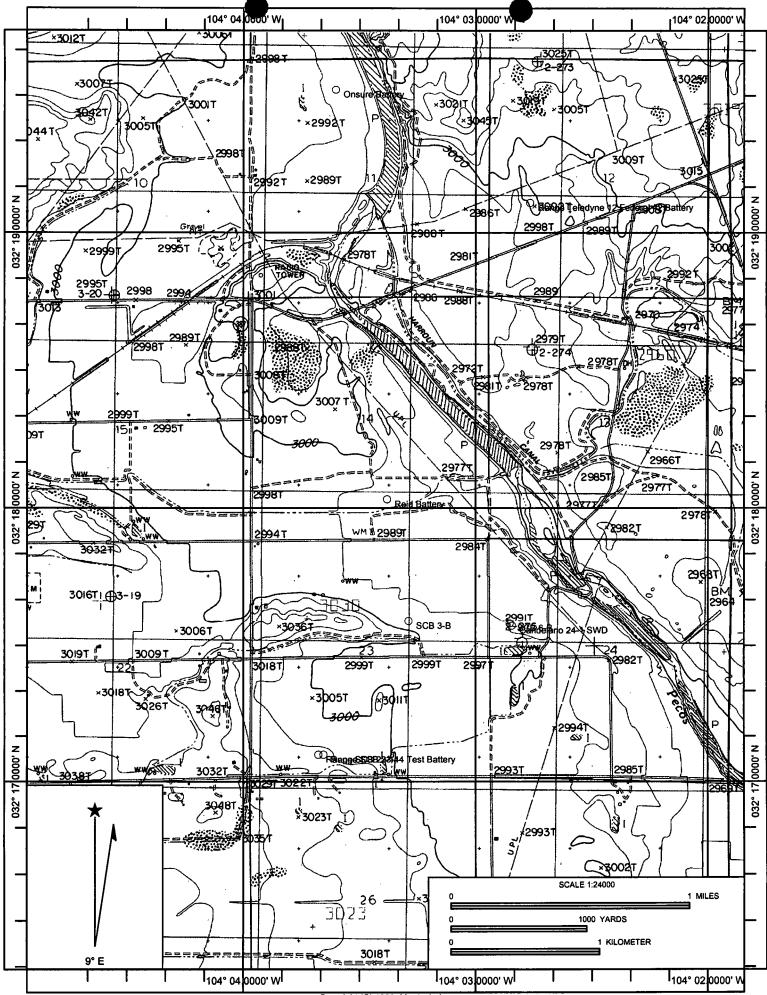
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30-015-26528

RANGE OPERATING NEW MEXICO, INC

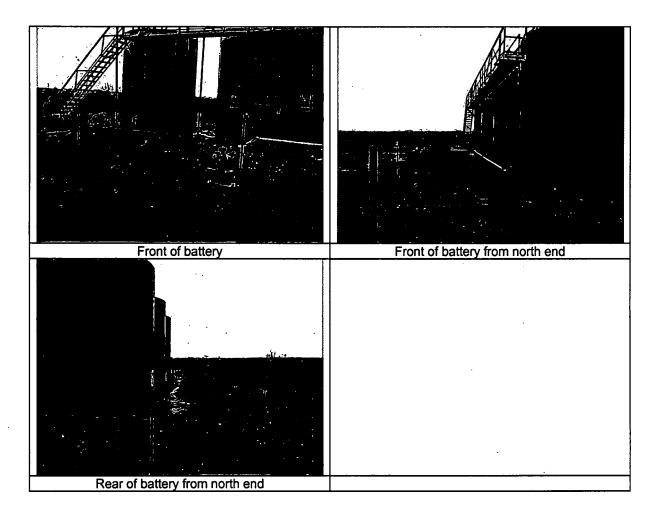
Information and Metrics

· · · · · · · · · · · · · · · · · · ·		Information	and Metrics		
Incident Date: February 1	6,2006		NMOCD Notifie	d: Februa	ry 16, 2006
Site: Reid Battery			Assigned Site Re	ference #	:
Company: Range Operati	ng New M	lexico, Inc.			
Street Address: 777 Main	Street Sui	ite 800			
Mailing Address: 777 Ma	in Street	Suite 800			
City, State, Zip: Ft. Worth	h, TX 761	02			
Representative: George T					
Representative Telephone	e: (817) 8	70-2601			
Fluid volume released (bt	ols): 58		Recovered (bbls)	: 58	
		10CD verbally within	24 hrs and submit form		hin 15 days.
	(Also		d releases >500 mcf N		
			form C-141 within 15 a	lays	
Leak, Spill, or Pit (LSP) N				,	
Source of contamination:			<u> </u>		
Land Owner, i.e., BLM, S		ther: Johnny & Ja	ckie L Reid		
LSP Dimensions: 107' X C					
LSP Area: Bases of north					
Location of Reference Po					
Location distance and dir	ection fro	om RP: NA			
Latitude: N 32° 18.021'					
Longitude: W 104° 2.839'					
Elevation above mean sea	level: 29	91' per USGS Map)		
Location- Unit or ¼ ¼: N	W/4 NW/	4 of Sec. 24	Unit Letter: O		
Location Section: 14					
Location- Township: 23S					
Location Range: 28E					
					· · · · · · · · ·
Surface water body within	n 1000' ra	adius of site: No .3	000 feet per USGS	Мар	
Domestic water wells with				k	
Agricultural water wells					
Depth from land surface				on relation	ship to Pecos River
Depth of contamination (
Depth to ground water (D		= DtGW): 44'			
1. Ground water		· · · · · · · · · · · · · · · · · · ·	Protection Area	3. Dist	ance to Surface Water Body
If Depth to GW <50 feet: 20 point	nts	If <1000' from water			zontal feet: 20 points
If Depth to GW 50 to 99 feet: 10		from private domesti			orizontal feet: 10 points
	, hours	points		200-1001	ionzontal leet. To points
ISD at a OWN 100 Section	4.	If >1000' from water		> 1000 1	
If Depth to GW >100 feet: 0 point	nts	from private domesti points	c water source: 0	>1000 no:	rizontal feet: 0 points
Ground Water Score = 20		Wellhead Protection	Area Score = 20	Surface V	/ater Score = 0
Site Rank $(1+2+3) = 40$					
	Total S	Site Ranking Score an	d Acceptable Concent	trations	
Parameter		12	10-19		0-9
Benzene	ļ	$f(0) = \eta_{g} \cdot \eta$	10 ppm		10 ppm
BTEX		(1)3 - 3j + 1 6/103 - 4 - 4	50 ppm		50 ppm
ТРН		- 0.00 j (1. s u] 1,000 ppm		5,000 ppm



Copyright (C) 1999, Maptech, Inc.

Reid Battery Spill Site Photographs



Bratcher, Mike, EMNRD

From:	Greg Swindle [greg@wbesi.com]
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Sent: Saturday, June 03, 2006 8:59 AM

To: Bratcher, Mike, EMNRD; 'Tony Tucker'

Cc: 'Linda Stiles'

Subject: Reid Remediation

Attachments: Range Resource Reid Battery Spill Workplan.pdf

Mike,

This week it was brought to my attention that the attached workplan may have not been reviewed by Chris Beadle. I show generating this in late February but at that time we were so busy working on a couple of immediate need sites this one may have gotten misplaced. Tony has a good crew out doing cleanup of all sites and cellars and this was brought to my attention by Tony.

I have reviewed this workplan and agree that it is still appropriate. It was a 58 barrel water spill inside the containment. When you get a chance please look this over. Please send me an email noting your review so that we can work this into our site cleanup schedule.

Tony, Linda,

I will be gone this week June 5-9. I will be on vacation but I will be available via email at least daily so stay in touch.

Greg Swindle President White Buffalo Environmental

White Buffalo Environmental Services, Inc. 5425 Ben Ficklin Road San Angelo, Texas 76904 Phone (325) 651-9054 Fax (325) 651-2125 Cell (325) 895-0410

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Summary Report

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 Tony Tucker
 Report Date: February 12, 2007

 Range Operating New Mexico Inc.
 Work Order: 7021113

 P.O. Box 300
 Work Order: 7021113

 Loving, NM, 88256
 SOCISS 26538

 Project Location:
 Eddy County,NM

 Project Name:
 Eddy County,NM

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
116095	South Wall	soil	2007-02-07	17:35	2007-02-10

Sample: 116095 - South Wall

Param	Flag	Result	Units	RL
Chloride		197	mg/Kg	5.00



6701 Aberdeen Avenue, Suite 9 155 McCutcheon, Suite H Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79932 888•588•3443 E-Mail lab@traceanalysis.com

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

Analytical and Quality Control Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: February 12, 2007

Work Order: 7021113

Project Location:Eddy County,NMProject Name:Reid #1Project Number:Reid #1

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
116095	South Wall	soil	2007-02-07	17:35	2007-02-10

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

Michael alm

Dr. Blair Leftwich, Director

Standard Flags

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

Report Date: February 12, 2007 Reid #1

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Analytical Report

Sample: 116									
Analysis:	Chloride (Titratio	n)	Analytical Me		I 4500-Cl B			Prep Metho	
QC Batch:	34557		Date Analyze		07-02-12			Analyzed E	
Prep Batch:	29990		Sample Prepa	ration: 200	07-02-12			Prepared B	y: SM
Descuentes			RL		•,	D	•1 .4		ы
Parameter Chloride	Fla	<u>g</u>	Result 197	Ur mg/	nits Ka	D	ilution 10		RL 5.00
			177	ing/	ng		10		5.00
Method Bla	nk (1) QC Bate	h: 34557							
QC Batch:	34557		Date Analyzed:	2007-02-1	2			Analyzed E	y: ER
Prep Batch:	29990		QC Preparation:	2007-02-1	2			Prepared B	-
			М	IDL					
Parameter	<u> </u>	Flag		sult		Units			RL
Chloride			<3	3.25		mg/Kg	3		5
QC Batch:	Control Spike (LC 34557	CS-1)	Date Analyzed:	2007-02-1				Analyzed B	•
QC Batch:	-	CS-1)	Date Analyzed: QC Preparation:	2007-02-1 2007-02-1				Analyzed E Prepared B	•
Laboratory QC Batch: Prep Batch:	34557	2 S-1) LC	QC Preparation:			Matri	ix	•	•
QC Batch: Prep Batch: Param	34557	LC: Rest	QC Preparation: S alt Units		2 Spike Amount	Resu	lt	Prepared B Rec.	y: SM Rec. Limit
QC Batch: Prep Batch: Param	34557	LC	QC Preparation: S ult Units	2007-02-1	2 Spike		lt	Prepared B	y: SM Rec.
QC Batch: Prep Batch: Param Chloride	34557 29990	LC Resu 99.	QC Preparation: S alt Units	2007-02-1 Dil.	2 Spike Amount 100	Resu <3.2	lt	Prepared B Rec.	y: SM Rec. Limit
QC Batch: Prep Batch: Param Chloride	34557 29990	LC Resu 99.	QC Preparation: S alt Units 9 mg/Kg	2007-02-1 Dil.	2 Spike Amount 100	Resu <3.2	lt	Prepared B Rec.	y: SM Rec. Limit
QC Batch: Prep Batch: Param Chloride Percent recov Param	34557 29990	LC Rest 99. spike result. RP LCSD Result	QC Preparation: S alt Units 9 mg/Kg D is based on the sp Units Dil.	2007-02-1 Dil. I ike and spike Spike Amount	2 Spike Amount 100 e duplicate re Matrix Result	Resu <3.2 esult. Rec.	lt 5 Rec. Limit	Prepared B Rec. 100	y: SM Rec. <u>Limit</u> 90 - 110 RPD Limit
QC Batch: Prep Batch: Param Chloride Percent recov Param	34557 29990	LC Rest 99. spike result. RPI LCSD	QC Preparation: S ult Units 9 mg/Kg D is based on the sp	2007-02-1 Dil. I ike and spike Spike	2 Spike Amount 100 e duplicate re Matrix	Resu <3.2 esult.	lt 5 Rec.	Prepared B Rec. 100	y: SM Rec. Limit 90 - 110 RPD
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride	34557 29990 very is based on the	LC Resu 99. spike result. RP LCSD Result 101	QC Preparation: S alt Units 9 mg/Kg D is based on the sp Units Dil.	2007-02-1 Dil. I ike and spike Spike Amount 100	2 Spike Amount 100 e duplicate re Matrix Result <3.25	Resu <3.2 esult. Rec. 101	lt 5 Rec. Limit	Prepared B Rec. 100	y: SM Rec. <u>Limit</u> 90 - 110 RPD Limit
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride Percent recov	34557 29990 very is based on the very is based on the	LC Resu 99. spike result. RP LCSD Result 101	QC Preparation: S alt Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp	2007-02-1 Dil. I ike and spike Spike Amount 100	2 Spike Amount 100 e duplicate re Matrix Result <3.25	Resu <3.2 esult. Rec. 101	lt 5 Rec. Limit	Prepared B Rec. 100	y: SM Rec. Limit 90 - 110 RPD Limit
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride	34557 29990 very is based on the very is based on the	LC Resu 99. spike result. RP LCSD Result 101 spike result. RP	QC Preparation: S alt Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp	2007-02-1 Dil. I ike and spike Spike Amount 100	2 Spike Amount 100 e duplicate re Matrix Result <3.25 e duplicate re	Resu <3.2 esult. Rec. 101	lt 5 Rec. Limit	Prepared B Rec. 100	y: SM Rec. Limit 90 - 110 RPD Limit 20
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride Percent recov Matrix Spika QC Batch:	34557 29990 very is based on the very is based on the e (MS-1) Spiked	LC Resu 99. spike result. RP LCSD Result 101 spike result. RP	QC Preparation: S ult Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp	2007-02-1 Dil. I ike and spike Amount 100 ike and spike	2 Spike Amount 100 e duplicate re Matrix Result <3.25 e duplicate re	Resu <3.2 esult. Rec. 101	lt 5 Rec. Limit	Prepared B Rec. 100 t RPD 10 1	y: SM Rec. Limit 90 - 110 RPD Limit 20 Sy: ER
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride Percent recov Matrix Spika QC Batch:	34557 29990 /ery is based on the /ery is based on the /e (MS-1) Spiked 34557	LC Resu 99. spike result. RP LCSD Result 101 spike result. RP	QC Preparation: S ult Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp D is based on the sp	2007-02-1 Dil. I ike and spike Amount 100 ike and spike 2007-02-1	2 Spike Amount 100 e duplicate re Matrix Result <3.25 e duplicate re	Resu <3.2 esult. Rec. 101	lt 55 Rec. Limit 90 - 11	Prepared B Rec. 100 RPD 0 1 Analyzed E Prepared B	y: SM Rec. Limit 90 - 110 RPD Limit 20 Sy: ER y: SM Rec.
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride Percent recov Matrix Spike	34557 29990 /ery is based on the /ery is based on the /e (MS-1) Spiked 34557	LC Resu 99. spike result. RPI LCSD Result 101 spike result. RPI Sample: 116102	QC Preparation: S 11t Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp Date Analyzed: QC Preparation: It Units	2007-02-1 Dil. I ike and spike Amount 100 ike and spike 2007-02-1	2 Spike Amount 100 e duplicate re Matrix Result <3.25 e duplicate re	Resu <3.2 esult. Rec. 101 esult.	lt 55 Rec. Limit 90 - 11	Prepared B Rec. 100 t RPD 0 1 Analyzed E Prepared B Rec.	y: SM Rec. Limit 90 - 110 RPD Limit 20 By: ER y: SM

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

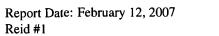
¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Dat Reid #1	e: February 12, 2	007		Work	Order: 7021 Reid #1	113	.		ge Numbe Eddy Cor	
Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		2 366	mg/Kg	4	400	157.185	52	84.6 - 117	3	20
Percent reco	overy is based on	the spike result. F	RPD is based	l on the s	pike and spil	ke duplicate r	esult.			
Standard (ICV- 1)									
orundur u (
QC Batch:	34557		Date A	nalyzed:	2007-02-1	2		An	alyzed B	y: ER
			ICVs	Ι	CVs	ICVs		Percent		
			True	F	ound	Percent		Recovery		Date
Param	Flag	Units	Conc.	0	Conc.	Recovery		Limits		alyzed
Chloride		mg/Kg	100		99.5	100		85 - 115	200	7-02-12
Standard (CCV-1)									
QC Batch:	34557		Date A	nalyzed:	2007-02-1	2		An	alyzed B	y: ER
			CCVs	C	CCVs	CCVs		Percent		
			True	F	ound	Percent		Recovery]	Date
Param	Flag	Units	Conc.	C	Conc.	Recovery		Limits	An	alyzed
Chloride		mg/Kg	100		100	100		85 - 115	200	7-02-12

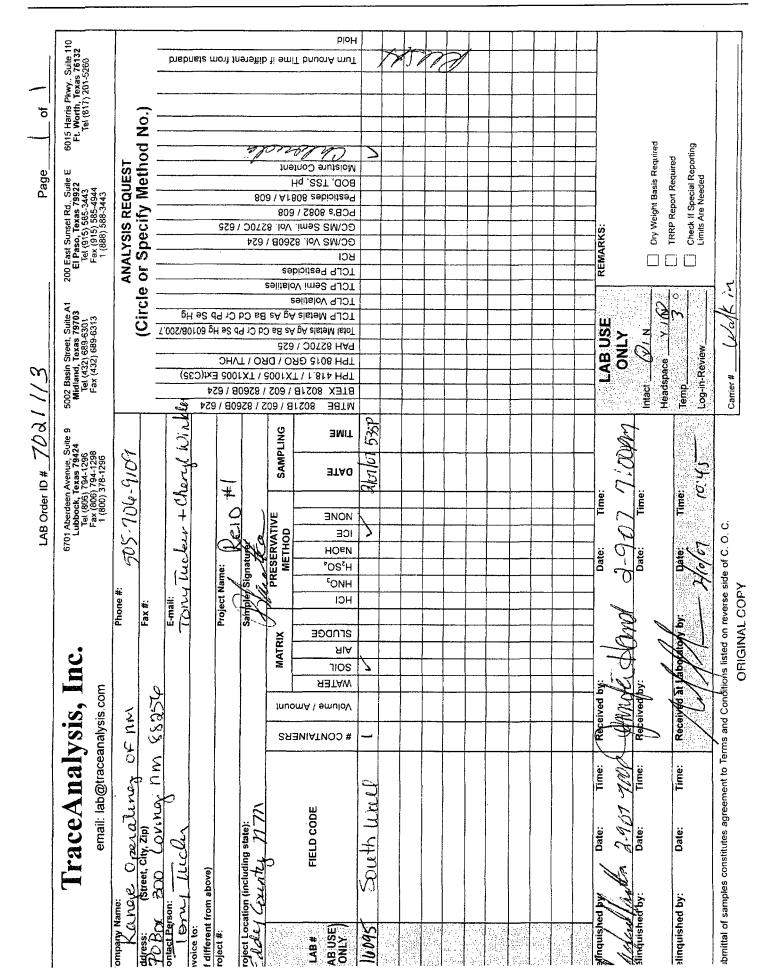
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²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.



Work Order: 7021113 Reid #1



Report Date: February 28, 2007

Summary Report

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Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: February 28, 2007

Work Order: 7022711

Project Name: Reid #1

Project Location: Eddy County,NM 30-015-26528

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
117529	North Wall	soil	2007-02-23	15:15	2007-02-27
117530	West Wall	soil	2007-02-23	15:45	2007-02-27
117531	East Wall	soil	2007-02-23	15:35	2007-02-27
117532	Quad A	soil	2007-02-23	14:45	2007-02-27
117533	Quad B	soil	2007-02-23	14:50	2007-02-27
117534	Quad C	soil	2007-02-23	15:00	2007-02-27
117535	Quad D	soil	2007-02-23	15:10	2007-02-27

		BTEX				TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
117532 - Quad A	< 0.0100	< 0.0100	<0.0100	< 0.0100		413	13.1
117533 - Quad B	< 0.0100	<0.0100	< 0.0100	<0.0100		232	2.39
117534 - Quad C	< 0.0100	< 0.0100	< 0.0100	<0.0100		<50.0	<1.00
117535 - Quad D	< 0.0100	< 0.0100	< 0.0100	<0.0100		<50.0	<1.00

Sample: 117529 - North Wall

Param	Flag	Result	\mathbf{Units}	\mathbf{RL}
Chloride		1180	mg/Kg	5.00

Sample: 117530 - West Wall

Param	Flag	Result	Units	RL
Chloride		572	mg/Kg	5.00

Sample: 117531 - East Wall

Param	Flag	Result	Units	RL
Chloride		1330	mg/Kg	5.00

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: February 28, 2007		Work Order: 7022711 Reid #1		Page Number: 2 of 2 Eddy County,NM	
Sample: 117532	- Quad A				
Param	Flag	Result	Units	RL	
Chloride		959	mg/Kg	5.00	
Sample: 117533	- Quad B				
Param	Flag	Result	Units	RL	
Chloride		628	mg/Kg	5.00	
Sample: 117534	- Quad C				
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		971	mg/Kg	5.00	
Sample: 117535	- Quad D				
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		719	mg/Kg	5.00	

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TRACEANALYSIS, INC.

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 200 Cast Sonivet Road, Slitte F — El Posini, Texos 19422
 5042 Basin Nheen, Suite AT — Michaeld, Jecos 79703
 6015 Hamis Farkway, Suite TT — Tr. Worth, Texos 73132

Lubtrict Texas 79424 - 600+378+12%6
 E. Duve, Texas 79424 - 689+668+3443
 Mathania Texas 79427 - 689+668+3443
 Mathania Texas 79403
 Ta Warth, Texas 79132
 E. Mathania Taobanaiyang com

868+378+1296 206+794+1296 389+698+3443 915+535+6443 402+609+6301 517+20+6301

1296 - FAX 866+704+1298 9443 - FAX 910+645+4944 0101 - FAX 432+682+6313 5269

Analytical and Quality Control Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

10000

Project Location:Eddy County,NMProject Name:Reid #1Project Number:Reid #1

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
117529	North Wall	soil	2007-02-23	15:15	2007-02-27
117530	West Wall	soil	2007-02-23	15:45	2007-02-27
117531	East Wall	soil	2007-02-23	15:35	2007-02-27
117532	Quad A	soil	2007-02-23	14:45	2007-02-27
117533	Quad B	soil	2007-02-23	14:50	2007-02-27
117534	Quad C	soil	2007-02-23	15:00	2007-02-27
117535	Quad D	soil	2007-02-23	15:10	2007-02-27

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

Michael 4

Dr. Blair Leftwich, Director

Standard Flags

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

Report Date: February 28, 2007 Work Order: 7022711

reot, sono 41 — 14.6 arkway, Suko IIIP – 14. Wi Sample: 117529 - North Wall

Analytical Report

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-02-27 2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		1180	mg/Kg	20	5.00

Sample: 117530 - West Wall

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Metho Date Analyzed: Sample Preparatio	2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
_	_	RL		-	~ *
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		572	mg/Kg	10	5.00

Sample: 117531 - East Wall

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-02-27 2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
		RL			D.F
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		1330	mg/Kg	20	5.00

Sample: 117532 - Quad A

Analysis: QC Batch: Prep Batch:	BTEX 35084 30441		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-02-27 2007-02-27		Prep Method: Analyzed By: Prepared By:		
			\mathbf{RL}						
Parameter	Flag		\mathbf{Result}		Units	D	ilution	\mathbf{RL}	
Benzene			< 0.0100		mg/Kg		1	0.0100	
Toluene			< 0.0100		mg/Kg		1	0.0100	
Ethylbenzene	9		< 0.0100		mg/Kg		1	0.0100	
Xylene			< 0.0100		mg/Kg_		1	0.0100	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	ene (TFT)		0.990	mg/Kg	g 1	1.00	99	52.1 - 131	
4-Bromofluor	obenzene (4-BFB)		1.05	mg/Kg	-	1.00	105	48.7 - 146	

Sample: 117532 - Quad A

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation	2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	<u> </u>	959	mg/Kg	10	5.00

Sample: 117532 - Quad A

Analysis: QC Batch: Prep Batch:	TPH DRO 35064 30431		Analytical Me Date Analyze Sample Prepa	d: 2007	8015B -02-27 -02-27	Analyz	fethod: N/A ed By: SP ed By: SP
Parameter	Fla	Ţ	RL Result	U	nits	Dilution	RL
DRO		· · · · · · · · · · · · · · · · · · ·	413	mg	/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	175	mg/Kg	1	150	117	62.5 - 164

Sample: 117532 - Quad A

Analysis: QC Batch: Prep Batch:	TPH GRO 35083 30441		Analytical Date Anal Sample Pr		S 8015B 2007-02-27 2007-02-27		Prep Meth Analyzed Prepared	By: KB
Parameter	Flag		RL Result		Units	П	vilution	RL
GRO			13.1		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu 4-Bromofluor	ene (TFT) robenzene (4-BFB)		0.955 1.26	mg/Kg mg/Kg	1 1	$\begin{array}{c} 1.00\\ 1.00\end{array}$	96 126	33.2 - 160 10 - 227

Sample: 117533 - Quad B

Analysis: QC Batch: Prep Batch:	BTEX 35084 30441		Analytical Method: Date Analyzed: Sample Preparation:	S 8021B 2007-02-27 2007-02-27	Prep Method: Analyzed By: Prepared By:	KB
			RL			
Parameter		\mathbf{F} lag	Result	Units	Dilution	\mathbf{RL}
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzen	9		<0.0100	mg/Kg	1	0.0100
					continued	

continued ...

sample 117533 continued ...

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			\mathbf{RL}						
Parameter	Flag		Result		\mathbf{Units}	Di	ilution	\mathbf{RL}	
Xylene			<0.0100		mg/Kg	1		0.0100	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	\mathbf{Units}	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)			1.01	mg/Kg	1	1.00	101	52.1 - 131	
4-Bromofluorobenzene (4-BI	FB)		1.02	mg/Kg	1	1.00	102	48.7 - 146	

Sample: 117533 - Quad B

oride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
86	Date Analyzed:	2007-02-27	Analyzed By:	JS
48	Sample Preparation:	2007-02-27	Prepared By:	SM
	RL			
\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
	628	mg/Kg	10	5.00
	86 48	86 Date Analyzed: 48 Sample Preparation: RL Flag Result	86 Date Analyzed: 2007-02-27 48 Sample Preparation: 2007-02-27 RL Flag Result Units	86 Date Analyzed: 2007-02-27 Analyzed By: 48 Sample Preparation: 2007-02-27 Prepared By: RL Flag Result Units Dilution

Sample: 117533 - Quad B

n-Triacontan	e	181	mg/Kg	1	150	121	62.5 - 164
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
DRO			232	mg	/Kg	1	50.0
Parameter	Fla	g	RL Result	U	nits	Dilution	RL
Analysis: QC Batch: Prep Batch:	TPH DRO 35064 30431		Analytical Me Date Analyze Sample Prepa	i: 2007-02-27 Ana		Analyz	fethod: N/A ed By: SP ed By: SP

Sample: 117533 - Quad B

Analysis: QC Batch: Prep Batch:	TPH GRO 35083 30441		Analytical Date Anal Sample Pr		S 8015B 2007-02-27 2007-02-27		Prep Meth Analyzed Prepared 1	By: KB
			\mathbf{RL}					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units	D	ilution	\mathbf{RL}
GRO			2.39		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.980	mg/Kg	1	1.00	98	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	10 - 227

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Page 1	Numl	ber:	5 of	13
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Sample: 117534 - Quad C

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Analysis: QC Batch: Prep Batch:	BTEX 35084 30441		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-02-27 2007-02-27		Prep Met Analyzed Prepared	By: KB
			\mathbf{RL}					
Parameter	Fla	g	Result		Units	J	Dilution	\mathbf{RL}
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	9		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		\mathbf{F} lag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.00	mg/Kg	; 1	1.00	100	52.1 - 131
4-Bromofluor	obenzene (4-BFB)		1.03	mg/Kg	; 1	1.00	103	48.7 - 146

Sample: 117534 - Quad C

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-02-27 2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		971	mg/Kg	10	5.00

Sample: 117534 - Quad C

Analysis: QC Batch: Prep Batch:	TPH DRO 35064 30431		Analytical Me Date Analyze Sample Prepa	ed:	Mod. 8 2007-02 2007-02	-27	-	lethod: ed By: ed By:	N/A SP SP
Parameter	Fla	Ŧ	RL Result		Unit		Dilution		\mathbf{RL}
DRO	Fla	5	<50.0		mg/K		1		50.0
Surrogate	Flag	Result	Units	Dilut		Spike Amount	Percent Recovery		overy mits
n-Triacontan	e	185	mg/Kg	1		150	123	62.5	- 164

Sample: 117534 - Quad C

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	35083	Date Analyzed:	2007-02-27	Analyzed By:	KB
Prep Batch:	30441	Sample Preparation:	2007-02-27	Prepared By:	KB

continued ...

sample 117534 continued

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Parameter	Flag		RL Result		Units	D	vilution	RL
			RL					
Parameter	Flag		Result		Units	D	vilution	\mathbf{RL}
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (T	TFT)		0.964	mg/Kg	1	1.00	96	33.2 - 160
4-Bromofluorobenz	ene (4-BFB)		1.02	mg/Kg	1	1.00	102	10 - 227

Sample: 117535 - Quad D

Analysis: QC Batch: Prep Batch:	BTEX 35084 30441		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-02-27 2007-02-27		Prep Meth Analyzed I Prepared I	By: KB
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units	D	ilution	\mathbf{RL}
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	e		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.10	mg/Kg	g 1	1.00	110	52.1 - 131
4-Bromofluor	robenzene (4-BFB)		1.13	mg/Kg	g 1	1.00	113	48.7 - 146

Sample: 117535 - Quad D

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2007-02-27 : 2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
_		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		719	mg/Kg	10	5.00

Sample: 117535 - Quad D

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	35064	Date Analyzed:	2007-02-27	Analyzed By:	SP
Prep Batch:	30431	Sample Preparation:	2007-02-27	Prepared By:	SP

continued ...

sample 117535 continued ...

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Parameter	Fla	g	RL Result	Uni	ts	Dilution	RL
			\mathbf{RL}				
Parameter	Fla	g	\mathbf{Result}	Uni	ts	Dilution	\mathbf{RL}
DRO			<50.0	mg/ł	Кg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		173	mg/Kg	1	150	115	62.5 - 164

Sample: 117535 - Quad D

Analysis: QC Batch: Prep Batch:	TPH GRO 35083 30441		Analytical Date Anal Sample Pr	yzed:	S 8015B 2007-02-27 2007-02-27		Prep Metho Analyzed B Prepared B		
			\mathbf{RL}						
Parameter	Flag		Result		\mathbf{Units}	D	ilution	\mathbf{RL}	
GRO	·····		<1.00		mg/Kg		1	1.00	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotolu	ene (TFT)	1 100	1.06	mg/Kg	1	1.00	106	33.2 - 160	
	robenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	10 - 227	

Method Blank (1) QC Batch: 35064

QC Batch: Prep Batch:	35064 30431		Date Analyze QC Preparat				lyzed By: SP pared By: SP
				MDL			
Parameter		Flag		Result		Units	\mathbf{RL}
DRO				<10.7	r.	ng/Kg	50
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	е	147	mg/Kg	1	150	98	62.5 - 164

Method Blank (1) QC Batch: 35083

QC Batch:	35083		Date Analyzed:	2007-02-27		Analyzed By:	KB
Prep Batch:	30441		QC Preparation:	2007-02-27		Prepared By:	KB
							
			M	DL			
Parameter		Flag	Res	sult	\mathbf{Units}		\mathbf{RL}
GRO			<0.2	121	mg/Kg		1

Report Date: February 28, Reid #1	2001		R	der: 7022 eid #1			E	ddy Cou	m
Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery		ec Liı
Trifluorotoluene (TFT)		0.939	mg/K		1	1.00	94	73	
4-Bromofluorobenzene (4-B	FB)	0.715	mg/K	g	1	1.00	72	70).5
Method Blank (1) G	QC Batch: 35084								
QC Batch: 35084 Prep Batch: 30441		Date Ana QC Prepa		2007-02-3 2007-02-3				lyzed By bared By	
Parameter	Flag			MDL esult		Un	its		
Benzene	5			0159		mg/		<u> </u>	
Toluene				0220		mg	/Kg		
Ethylbenzene				0201		mg/			
Xylene			<0.0	0176		mg	ng	······	
		Result	Units	Dil	ution	Spike Amount	Percent Recovery		ec Lii
Surrogate	Flag	recourt	0						
Trifluorotoluene (TFT)		0.949	mg/K		1	1.00	95	73.	.2
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B					1	1.00 1.00	-	73.	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B	FB)	0.949	mg/K mg/K alyzed:		1		95 68 Ana	73.	.2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448	FB) QC Batch: 35086	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI	2007-02- 2007-02- DL	1	1.00	95 68 Ana Pre	73. 54 alyzed B	5.2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter	FB)	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI Resu	2007-02- 2007-02- 2007-02- DL ılt	1	1.00 Uni	95 68 Ana Pre ts	73. 54 alyzed B	5.2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448	FB) QC Batch: 35086	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI	2007-02- 2007-02- 2007-02- DL ılt	1	1.00	95 68 Ana Pre ts	73. 54 alyzed B	4 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter	FB) QC Batch: 35086 Flag	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI Resu	2007-02- 2007-02- 2007-02- DL ılt	1	1.00 Uni	95 68 Ana Pre ts	73. 54 alyzed B	5.2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil	FB) QC Batch: 35086 Flag	0.949 0.680 Date Ana QC Prep	mg/K mg/K alyzed: paration: MI Ress <3.	2007-02- 2007-02- 2007-02- DL ılt	1 27 27	1.00 Uni	95 68 Ana Pre ts Kg	73 54 alyzed B pared B	3.2 4 3 y
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride	FB) QC Batch: 35086 Flag	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI Resu <3.	g 2007-02- 2007-02- DL 1lt 25	1 27 27 27 27	1.00 Uni	95 68 Ana Pre ts Kg Ana	73. 54 alyzed B	3.2 4 5 y y:
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: 35064 Prep Batch: 30431	FB) C Batch: 35086 Flag ke (LCS-1)	0.949 0.680 Date Ana QC Prep Date Ana QC Prep	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration:	g 2007-02- 2007-02- DL 1lt 25 2007-02- 2007-02-	1 27 27 27 27 27 27 5pike	1.00 Uni mg/	95 68 Ana Pre ts Kg Ana Prej rix	73. 54 alyzed B pared B lyzed By pared By	3.2 4 3y y: y: y:
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: QC Batch: 35064 Prep Batch: 30431 Param 30431	FB) C Batch: 35086 Flag ke (LCS-1) LC Res	0.949 0.680 Date Ana QC Prep Date Ana QC Prep CS Sult U	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration: Jnits	2007-02- 2007-02- 0L 1lt 25 2007-02- 2007-02- Dil.	1 27 27 27 27 27 27 27 Spike Amount	1.00 Uni mg/ Mat Res	95 68 Ana Pre Kg Ana Prej .rix ult Rec.	73. 54 alyzed B pared B pared By pared By	.2 4 y: y: y: r
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: 35064 Prep Batch: 30431	FB) 2C Batch: 35086 Flag ke (LCS-1) LC Res 20	0.949 0.680 Date Ana QC Prep Date Ana QC Prep CS sult U	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration: Jnits g/Kg	g 2007-02- 2007-02- DL 1lt 225 2007-02- 2007-02- Dil. 1	1 27 27 27 27 27 27 27 27 27 27 27 27 27	1.00 Uni mg/ Mat Res <10	95 68 Ana Pre ts Kg Ana Prej .rix ult Rec. 0.7 82	73. 54 alyzed B pared B lyzed By pared By	2 4 5 y y: y: y: F L
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based on	FB) QC Batch: 35086 Flag ke (LCS-1) LCSD	0.949 0.680 Date Ana QC Prep Date Ana QC Prep CS sult U 06 mi	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration: <u>Jnits</u> g/Kg ased on t	g 2007-02- 2007-02- DL 1lt 25 2007-02- 2007-02- Dil. 1 he spike a Spike	1 27 27 27 27 27 27 27 27 27 27 27 27 27	1.00 Uni mg/ Mat Res <10	95 68 Ana Pre ts Kg Ana Prej ult Rec. Rec.	73. 54 alyzed B pared B pared By pared By	2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: QC Batch: 35064 Prep Batch: 30431 Param DRO	FB) QC Batch: 35086 Flag ke (LCS-1) LC Res 20 n the spike result.	0.949 0.680 Date Ana QC Prep Date Ana QC Prep CS sult U	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration: Jnits g/Kg	g 2007-02- 2007-02- DL 1lt 25 2007-02- 2007-02- Dil. 1 he spike a	1 27 27 27 27 27 27 27 27 27 27 27 27 27	1.00 Uni mg/ Mat Res <10	95 68 Ana Pre ts Kg Ana Prej rix ult Rec. 0.7 82 result.	73. 54 alyzed B pared B pared By pared By	y: y: y: y: Li

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	LCS	LCSD				Spike	LC	s	LCSD		Rec.
Surrogate	Result	Result		Inits	Dil.	Amount			Rec.		Limit
	LCS	LCSD				Cnilia	LC	IC	LCSD		Rec.
Surrogate	Result	Result		Inits	Dil.	Spike Amount			Rec.		Limit
n-Triacontane	146	153		g/Kg	1	150	<u> </u>		102		.5 - 164
	140	100		g/ Kg	1	100	9		102		.5 - 104
Laboratory Control Sp	oike (LCS	-1)									
QC Batch: 35083			Date A	alyzed:	2007-02	-27			Analy	zed By	: KB
Prep Batch: 30441			QC Pre							ared By	
		LCS				Spike		atrix			Rec.
Param		Resu		Units	Dil.	Amoun		sult	Rec.		Limit
GRO		9.1′	7 r	ng/Kg	1	10.0	<0	.121	92	79.	.6 - 113
Percent recovery is based	on the spi	ke result.	RPD is	based of	n the spike	and spike	duplicate	result.			
		LCSD			Spike	Matrix	:	Re	ec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Lin	nit	RPD	Limit
GRO		9.47	mg/Kg	1	10.0	< 0.121	95	79.6	- 113	3	20
Percent recovery is based	on the spi	ke result.	RPD is	based of	n the spike	and spike	duplicate	result.			
Ū	•				•	-	-		I COD		n
n ,		LCS		SD	TT */		Spike	LCS	LCSE		Rec.
Surrogate		Resul		sult	Units		mount	Rec.	Rec.		Limit
Trifluorotoluene (TFT)		0.932 0.879			mg/Kg mg/Kg		1.00	93 88	96 91		1 - 117
4-Bromofluorobenzene (4-	DFD)	0.873		114			1 00			(0.	.1 - 118
					III <u>B/ IK</u> B	1	1.00		51		
Laboratory Control Sp	oike (LCS	-1)		<u> </u>	<u></u>	1	1.00				
	oike (LCS	-1)	Date A				1.00				: КВ
QC Batch: 35084	oike (LCS	5-1)	Date An QC Pre	nalyzed:	2007-02	-27	1.00		Analy	zed By	
QC Batch: 35084	oike (LCS	-1)		nalyzed:	2007-02	-27	1.00		Analy	zed By	
QC Batch: 35084	oike (LCS	-1) LCS	QC Pre	nalyzed:	2007-02	-27		trix	Analy	zed By ared By	
QC Batch: 35084 Prep Batch: 30441	oike (LCS		QC Pre	nalyzed:	2007-02	-27 -27	Ма		Analy	vzed By ared By	: KB
QC Batch: 35084 Prep Batch: 30441 Param	oike (LCS	LCS	QC Pre	nalyzed: paratior	2007-02 a: 2007-02	-27 -27 Spike	Ma Re <0.0	trix sult 0159	Analy Prepa	vzed By ared By	: KB Rec. Limit
QC Batch: 35084 Prep Batch: 30441 Param Benzene	ike (LCS	LCS Resu	QC Pre	nalyzed: paratior Jnits g/Kg g/Kg	2007-02 n: 2007-02 Dil.	-27 -27 Spike Amount 1.00 1.00	Ma Re <0.0 <0.0	trix sult 0159 0220	Analy Prepa Rec. 98 97	vzed By ared By 1 76	: KB Rec. Limit 3 - 117
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene	ike (LCS	LCS Resu 0.973 0.96 0.949	QC Pre	nalyzed: paratior Jnits g/Kg g/Kg g/Kg	2007-02 n: 2007-02 Dil. 1 1 1	-27 -27 Spike Amount 1.00 1.00 1.00	Ma Re: <0.0 <0.0 <0.0	trix sult 0159 0220 0201	Analy Prepa Rec. 98 97 95	/zed By ared By 76. 77. 75.	: KB Rec. Limit 3 - 117 3 - 114 4 - 115
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene		LCS Resu 0.977 0.967 0.949 2.80	QC Pre	nalyzed: paratior Jnits g/Kg g/Kg g/Kg g/Kg	2007-02 n: 2007-02 Dil. 1 1 1 1	-27 Spike Amount 1.00 1.00 1.00 3.00	Ma Re: <0.0 <0.0 <0.0 <0.0	trix sult 0159 0220 0201 0176	Analy Prepa Rec. 98 97	/zed By ared By 76. 77. 75.	: KB Rec. Limit 3 - 117 3 - 114
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene		LCS Resul 0.977 0.967 0.949 2.80 ke result.	QC Pre	nalyzed: paratior Jnits g/Kg g/Kg g/Kg g/Kg	2007-02 n: 2007-02 Dil. 1 1 1 1 1 n the spike	-27 Spike Amount 1.00 1.00 1.00 3.00	Ma Re: <0.0 <0.0 <0.0 <0.0	trix sult 0159 0220 0201 0176	Analy Prepa Rec. 98 97 95	/zed By ared By 76. 77. 75.	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based		LCS Resul 0.977 0.967 0.949 2.80 ke result. LCSD	QC Pre	nalyzed: paratior g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg based or	2007-02 n: 2007-02 Dil. 1 1 1 1 n the spike Spike	-27 -27 Spike <u>Amount</u> 1.00 1.00 1.00 3.00 and spike Matrix	Ma Re: <0.0 <0.0 <0.0 <0.0 duplicate	trix sult 0159 0220 0201 0176 result. Ra	Analy Prepa Rec. 98 97 95 93 ec.	/zed By ared By 76. 77. 75. 73.	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based Param		LCS Resul 0.976 0.949 2.80 ke result. LCSD Result	QC Pre	nalyzed: paration g/Kg g/Kg g/Kg based on Dil.	2007-02 n: 2007-02 Dil. 1 1 1 1 n the spike Spike Amount	-27 Spike Amount 1.00 1.00 3.00 and spike Matrix Result	Ma Re: <0.0 <0.0 <0.0 duplicate Rec.	trix sult 0159 0220 0201 0176 result. Ra Lin	Analy Prepa Rec. 98 97 95 93 ec. mit	rzed By ared By 76. 77. 75. 73. RPD	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD Limit
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based Param Benzene		LCS Resul 0.97 0.94 2.80 ke result LCSD Result 0.954	QC Pre	nalyzed: paratior g/Kg g/Kg g/Kg g/Kg based or Dil. 1	2007-02 2007-02 Dil. 1 1 1 1 n the spike Spike Amount 1.00	-27 Spike Amount 1.00 1.00 3.00 and spike Matrix Result <0.0015	Ma Re <0.0 <0.0 <0.0 duplicate Rec. 9 95	trix sult 0159 0220 0201 0176 result. Ra Lin 76.3	Analy Prepa <u>Rec.</u> 98 97 95 93 ec. mit - 117	/zed By ared By 76. 77. 75. 73. RPD 2	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD Limit 20
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based Param Benzene Toluene		LCS Resul 0.97 0.94 2.80 ke result LCSD Result 0.954 0.943	QC Pre	Jnits Jnits g/Kg g/Kg g/Kg based of Dil. 1 1	2007-02 2007-02 Dil. 1 1 1 1 n the spike Spike Amount 1.00 1.00	-27 Spike Amount 1.00 1.00 3.00 and spike Matrix Result <0.0015 <0.0022	Ma Re <0.0 <0.0 <0.0 duplicate <u>Rec.</u> 9 95 0 94	trix sult 0159 0220 0201 0176 result. Ra Lin 76.3 77.3	Analy Prepa Rec. 98 97 95 93 ec. mit - 117 - 114	/zed By ared By 76. 77. 75. 73. <u>RPD</u> 2 2	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD Limit 20 20
v		LCS Resul 0.974 0.96 0.944 2.80 ke result LCSD Result 0.954 0.943 0.934	QC Pre	nalyzed: paratior g/Kg g/Kg g/Kg g/Kg based or Dil. 1	2007-02 1 2007-02 Dil. 1 1 1 1 1 n the spike Spike Amount 1.00	-27 Spike Amount 1.00 1.00 3.00 and spike Matrix Result <0.0015	Ma Re <0.0 <0.0 <0.0 <0.0 duplicate Rec. 9 95 0 94 1 93	trix sult 0159 0220 0201 0176 result. Ra Lin 76.3 77.3 75.4	Analy Prepa <u>Rec.</u> 98 97 95 93 ec. mit - 117	/zed By ared By 76. 77. 75. 73. RPD 2	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD Limit 20

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

Reid #1	, 2007		W		der: 70227 eid #1				0	umber: ddy Co	10 of 13 ounty,NM
		LCS	LCSD				pike	LCS	LCS	D	Rec.
Surrogate		Result					nount	Rec.	Rec		Limit
Trifluorotoluene (TFT)		1.01	0.993		g/Kg		.00	101	99		4.5 - 113
4-Bromofluorobenzene (4-E	SFB)	0.925	0.913	mį	g/Kg	1 1	.00	92	91	6	8.3 - 110
Laboratory Control Spi	ike (LCS-	1)									
QC Batch: 35086			Date Anal	vzed:	2007-02-	27			An	alyzed l	By: JS
Prep Batch: 30448			QC Prepa		2007-02-	27				pared I	-
		LCS				Spike	ſ	Matrix			Rec.
Param		Resul		nits	Dil.	Amoun		Result	Re	c.	Limit
Chloride		105	mg	/Kg	1	100		<3.25	10	5	90 - 110
Percent recovery is based o	on the spik	e result. F	PD is bas	ed on t	he spike a	nd spike o	luplicat	e result			
		LCSD			Spike	Matrix	:	1	Rec.		RPD
Param		Result	Units	Dil.	Amount	Result			imit	RPD	Limit
Chloride		105	mg/Kg	1	100	<3.25	105		- 110	0	20
QC Batch: 35064	Spiked Sa		7533 Date Analy QC Prepar		2007-02- 2007-02-					alyzed H pared H	-
QC Batch: 35064	Spiked Sa]	Date Anal			27	М	atrix		-	
QC Batch: 35064 Prep Batch: 30431	Spiked Sa]	Date Anal <u>y</u> QC Prepar	ation:				atrix esult		pared E	By: SP
QC Batch: 35064 Prep Batch: 30431 Param	Spiked Sa	MS	Date Anal <u>y</u> QC Prepar	ration: its	2007-02-	27 Spike	R		Pre	pared E	By: SP Rec. Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO	-	MS Result 392	Date Analy QC Prepar t Un mg/	ration: its Kg	2007-02- Dil. 1	27 Spike Amount 250	R	esult 232	Pre Rec. 64	pared E	By: SP Rec. Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO	-	MS Result 392	Date Analy QC Prepar t Un mg/	ration: its Kg	2007-02- Dil. 1	27 Spike Amount 250	R	esult 232 e result	Pre Rec. 64	pared E	By: SP Rec. Limit 7.5 - 127
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based of Param	on the spik	MS Result 392 re result. F	Date Analy QC Prepar t Un mg/ RPD is bas	ration: its Kg	2007-02- Dil. 1 the spike a Spike Amount	27 Spike Amount 250 Ind spike of Matrix Result	R	esult 232 e result F	Pre Rec. 64	pared E	By: SP Rec. Limit 7.5 - 127 RPD
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based of Param	on the spik	MS Result 392 e result. F MSD Result	Date Analy QC Prepar t Un mg/ RPD is bas	its Kg ed on t	2007-02- Dil. 1 .he spike a Spike	27 Spike Amount 250 Ind spike of Matrix	R luplicat	esult 232 e result F Li	Pre Rec. 64 Rec.	pared E	By: SP Rec. Limit 7.5 - 127 RPD
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based of Param DRO	on the spik	MS Result 392 e result. F MSD Result 401	Date Analy QC Prepar t Un mg/ RPD is bas Units mg/Kg	ation: its Kg ed on t Dil. 1	2007-02- Dil. 1 che spike a Spike Amount 250	27 Spike Amount 250 Ind spike of Matrix Result 232	R luplicat Rec. 68	esult 232 e result F Li 47.5	Pre <u>Rec.</u> 64 Rec. imit 5 - 127	pared E 4 RPD	By: SP Rec. Limit 7.5 - 127 RPD Limit
•	on the spik	MS Result 392 e result. F MSD Result 401	Date Analy QC Prepar t Un mg/ RPD is bas Units mg/Kg	ation: its Kg ed on t Dil. 1	2007-02- Dil. 1 che spike a Spike Amount 250	27 Spike Amount 250 Ind spike of Matrix Result 232	R luplicat Rec. 68 luplicat	esult 232 e result F Li 47.5	Pre <u>Rec.</u> 64 Rec. imit 5 - 127	pared E 4 RPD	By: SP Rec. Limit 7.5 - 127 RPD Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based of Param DRO	on the spik	MS Result 392 e result. F MSD Result 401 e result. F	Date Analy QC Prepar t Un mg/ RPD is bas Units mg/Kg	ation: its Kg ed on t Dil. 1 ed on t	2007-02- Dil. 1 che spike a Spike Amount 250	27 Spike Amount 250 Ind spike of Matrix Result 232 Ind spike of	R luplicat Rec. 68 luplicat	esult 232 e result F Li 47.5 e result	Pre <u>Rec.</u> 64 Rec. 	pared E 4 RPD	By: SP Rec. Limit 7.5 - 127 RPD Limit 20
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate	on the spik	MS Result 392 e result. F MSD Result 401 e result. F MSD	Date Analy QC Prepar t Un RPD is bas Units mg/Kg RPD is bas	ation: its Kg ed on t Dil. 1 ed on t ts	2007-02- Dil. 1 Spike a Amount 250 the spike a	27 Spike Amount 250 Ind spike of Matrix Result 232 Ind spike of Spike	R luplicat Rec. 68 luplicat	esult 232 e result E Li 47.5 e result MS	Pre <u>Rec.</u> 64 Rec. imit 5 - 127 MSD	pared E 4 <u>RPD</u> 2	By: SP Rec. Limit 7.5 - 12 RPD Limit 20 Rec. Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 35083	on the spik on the spik MS Result 167	MS Result 392 e result. F MSD Result 401 e result. F MSD Result 166 ample: 117	Date Analy QC Prepar t Un RPD is bas Units mg/Kg RPD is bas Uni mg/I	ation: its Kg ed on t Dil. 1 ed on t ts Kg /zed:	2007-02- Dil. 1 Spike Amount 250 She spike a Dil.	27 Spike Amount 250 Ind spike of Matrix Result 232 Ind spike of Spike Amount 150	R luplicat Rec. 68 luplicat	esult 232 e result E Li 47.5 e result MS Acc.	Pre Rec. 64 Rec. imit 5 - 127 MSD Rec. 111 Ana	pared E 4 <u>RPD</u> 2	By: SP Rec. Limit 7.5 - 127 RPD Limit 20 Rec. Limit 2.5 - 164 y: KB
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 35083	on the spik on the spik MS Result 167	MS Result 392 e result. F MSD Result 401 e result. F MSD Result 166 ample: 117	Date Analy QC Prepar t Un RPD is bas Units mg/Kg RPD is bas Uni mg/I 7535 Date Analy	ation: its Kg ed on t Dil. 1 ed on t ts Kg /zed:	2007-02- Dil. 1 Spike Amount 250 che spike a Dil. 1 2007-02-	27 Spike Amount 250 Ind spike of Matrix Result 232 Ind spike of Spike Amount 150	Rec. 68 luplicat	esult 232 e result 47.5 e result MS tec. 111	Pre Rec. 64 Rec. imit 5 - 127 MSD Rec. 111 Ana	Pared E 4 RPD 2 6	By: SP Rec. Limit 7.5 - 127 RPD Limit 20 Rec. Limit 2.5 - 164 y: KB y: KB
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 35083	on the spik on the spik MS Result 167	MS Result 392 e result. F MSD Result 401 e result. F MSD Result 166 ample: 117	Date Analy QC Prepar t Un Mg/ RPD is bas Units mg/Kg RPD is bas Unit mg/I 7535 Date Analy QC Prepar	ration: its Kg ed on t Dil. 1 ed on t ts Kg vzed: ation:	2007-02- Dil. 1 Spike Amount 250 che spike a Dil. 1 2007-02-	27 Spike Amount 250 Ind spike of Matrix Result 232 Ind spike of Spike Amount 150	Rec. 68 luplicat luplicat	esult 232 e result E Li 47.5 e result MS Acc.	Pre Rec. 64 Rec. imit 5 - 127 MSD Rec. 111 Ana	A RPD 2 6 lyzed B bared B	By: SP Rec. <u>Limit</u> 7.5 - 127 RPD <u>Limit</u> 20 Rec. <u>Limit</u> 2.5 - 164 y: KB

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

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Reid #1				Order: 7022 Reid #1				1	Page Number: 11 of 1 Eddy County,NN		
Param	MSD Result	Units	Dil.	Spike Amount	Mat Res		Rec.	Re Lim		RPD	RP Lin
GRO	9.49	mg/Kg	1	10.0	<0.		95	40.7 -		8	19.
Percent recovery is based on the s	pike result.		ased c	on the spike				result.			
	MS	S MS	SD			Spil	re	MS	MSD)	Rec.
Surrogate	Resu			Units	Dil.	Amo		Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.93	0 0.8	64	mg/Kg	1	1		93	86	34	4.9 - 1
4-Bromofluorobenzene (4-BFB)	1.15	5 1.0	08	mg/Kg	1	1		115	108	58	8.5 - 1
Matrix Spike (MS-1) Spiked	l Sample: 11	17535									
QC Batch: 35084		Date An	alvzed	: 2007-02	-27				Analy	zed B	v: K
Prep Batch: 30441		QC Prep								ared By	
	MS				Spik	e	Ma	triv			Rec.
Param	Resul		nits	Dil.	Amou		Res		Rec.		Limit
Benzene	0.978		g/Kg	1	1.00			0159	98		9.6 - 1
Toluene	1.02		g/Kg	1	1.00		<0.0		102		5.4 - 1
				1	1 00		~0.0	0201	111		8 - 14
	1.11		g/Kg	1	1.00)	<0.0	0201	111	4	10 - 14
	1.11 3.32		g/Kg g/Kg	1	3.00		<0.0		111		
Xylene	3.32	e mg	g/Kg	1	3.00)	<0.0	0176			
Ethylbenzene Xylene Percent recovery is based on the s	3.32	e mg	g/Kg	1 on the spike	3.00) ike dup	<0.0	0176	111		5.3 - 14
Xylene	3.32 pike result. MSD Result	2 mg RPD is b Units	g/Kg	1	3.00 and spi) ike dup rix	<0.0	0176 result.	111 ec.		5.3 - 1 RP
Xylene Percent recovery is based on the s	3.32 pike result. MSD Result 0.933	e mg RPD is t Units mg/Kg	g/Kg based o	1 on the spike Spike	3.00 and spi Mat) ike dup trix ult	<0.0 licate	0176 result. Re	111 ec.	45	5.3 - 14 RP Lim
Xylene Percent recovery is based on the s Param Benzene Toluene	3.32 pike result. MSD Result 0.933	2 mg RPD is b Units	g/Kg pased c Dil.	1 on the spike Spike Amount	3.00 and spi Mat Res) ike dup trix ult 0159	<0.0 licate Rec.	0176 result. Re Lin	111 cc. nit · 141	45 RPD	5.3 - 1 RP Lim 20
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene	3.32 pike result. MSD Result 0.933 0.979 1.06	RPD is b Units mg/Kg mg/Kg mg/Kg	g/Kg pased c Dil. 1	1 m the spike Spike Amount 1.00 1.00 1.00	3.00 and spi Mat Res <0.00 <0.00 <0.00) ike dup trix ult 0159 0220 0221	<0.0 licate <u>Rec.</u> 93 98 106	0176 result. Re Lin 39.6 - 45.4 - 48 -	111 ec. 141 138 141	45 RPD 5	5.3 - 1 RP Lim 20 20 20
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg	g/Kg pased o Dil. 1 1 1 1 1	1 on the spike Spike Amount 1.00 1.00 1.00 3.00	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00) ike dup ult 0159 0220 0201 0176	<0.0 licate <u>Rec.</u> 93 98 106 106	0176 result. Re Lin 39.6 - 45.4 - 48 - 48 - 45.3 -	111 ec. 141 138 141	45 RPD 5 4	5.3 - 1 RP Lim 20 20 20
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result.	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t	Dil. Dil. 1 1 1 2 based o	1 on the spike Spike Amount 1.00 1.00 1.00 3.00	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00) ike dup ult 0159 0220 0201 0176 ike dup	<0.0 licate <u>Rec.</u> 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 48 - 45.3 - result.	111 ec. • 141 • 138 141 • 142	45 RPD 5 4 5 5	8.3 - 1 RP Lim 20 20 20 20
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t	based of Dil. 1 1 1 1 5 5 5 5 5	1 Spike Amount 1.00 1.00 1.00 3.00 on the spike	3.00 and spi Res <0.00 <0.00 <0.00 <0.00 and spi) ike dup orix ult 0159 0220 0201 0176 ike dup Spił	<0.0 licate 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 45.4 - 48 - 45.3 - result. MS	111 ec. 141 138 141 142 MSD	45 RPD 5 4 5 5	8.3 - 14 RP Lim 20 20 20 20 20 8 Rec.
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t Mg It Res	based of Dil. 1 1 1 based of SD Sult	1 on the spike Spike Amount 1.00 1.00 1.00 3.00 on the spike Units	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00 and spi Dil.) ike dup crix ult 0159 0220 0220 02201 0176 ike dup Spił Amou	<0.0 licate 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 45.4 - 48 - 45.3 - result. MS Rec.	111 cc. 141 138 141 142 MSD Rec.	45 RPD 5 4 5 5	5.3 - 14 RP Lim 20 20 20 Rec. Limit
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT)	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t Mg It Res	based of Dil. 1 1 1 based of SD Sult	1 Spike Amount 1.00 1.00 1.00 3.00 on the spike	3.00 and spi Res <0.00 <0.00 <0.00 <0.00 and spi) ike dup orix ult 0159 0220 0201 0176 ike dup Spił	<0.0 licate 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 45.4 - 48 - 45.3 - result. MS	111 ec. 141 138 141 142 MSD	45 RPD 5 4 5 5	5.3 - 1 RF Lir 2 2 2 2 2 2 8 Rec. Limit 1.5 - 1
Xylene Percent recovery is based on the s Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 35086	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS It Res 5 1.1 2 1.1	pased of Dil. 1 1 1 1 0 assed of 5D 50 50 50 50 50 50 50 50 50 50 50 50 50	1 on the spike Spike Amount 1.00 1.00 1.00 0 1.00 3.00 on the spike Units mg/Kg mg/Kg 1.2007-02	3.00 and spi Res <0.00 <0.00 <0.00 <0.00 and spi Dil. 1 1) ike dup crix ult 0159 0220 0220 02201 0176 ike dup Spił Amou	<0.0 licate 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 45.4 - 48 - 45.3 - result. MS Rec.	111 c. 141 138 141 142 MSD Rec. 102 108 Anal	45 RPD 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	5.3 - 1 RP Lim 20 20 20 20 20 20 20 20 20 20
Xylene Percent recovery is based on the s Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu 1.05 1.12	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS It Res 5 1.0 2 1.0 17544 Date Ar QC Prej	pased of Dil. 1 1 1 1 0 assed of 5D 50 50 50 50 50 50 50 50 50 50 50 50 50	1 on the spike Spike Amount 1.00 1.00 1.00 0 1.00 3.00 on the spike Units mg/Kg mg/Kg 1.2007-02	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00 and spi Dil. 1 1 2-27 2-27) ike dup 0159 0220 0201 0176 ike dup Spił Amot 1 1	<0.0 licate 93 98 106 106 licate ce int	0176 result. Re Lin 39.6 - 45.4 - 45.3 - result. MS Rec. 105 112	111 c. 141 138 141 142 MSD Rec. 102 108 Anal	45 RPD 5 4 5 5 5 5 52	5.3 - 1 RP Lim 20 20 20 20 20 20 20 20 20 20
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 35086 Prep Batch: 30448	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu 1.05 1.12	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS It Res 5 1.1 2 1.1 17544 Date Ar QC Prej	y/Kg pased o Dil. 1 1 1 1 1 0 assed o 5D 50 50 50 50 50 50 50 50 50 50 50 50 50	1 on the spike Spike Amount 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 3.00 on the spike Units mg/Kg mg/Kg d: 2007-02 on: 2007-02	3.00 and spi Res <0.00 <0.00 <0.00 <0.00 and spi Dil. 1 1 2-27 2-27 2-27) ike dup ult 0159 0220 0201 0176 ike dup Spil Amou 1 1	<0.0 licate 93 98 106 106 licate ce int	0176 result. Re Lin 39.6 - 45.4 - 45.3 - result. MS Rec. 105 112	111 c. 141 138 141 142 MSD Rec. 102 108 Anal Prep	45 RPD 5 4 5 5 5 5 5 1 52 1 1 52 1 1 52 1 53 1 52 5 5 5 5 5 5 5 5 5 5 5 5 5	RP Lim 20 20 20 20 Rec. Limit 1.5 - 11 2.2 - 11 3y: J By: J By: J Rec.
Xylene Percent recovery is based on the s Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 35086	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu 1.05 1.12	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS It Res 5 1.1 2 1.1 17544 Date Ar QC Prep	pased of Dil. 1 1 1 1 0 assed of 5D 50 50 50 50 50 50 50 50 50 50 50 50 50	1 on the spike Spike Amount 1.00 1.00 1.00 0 1.00 3.00 on the spike Units mg/Kg mg/Kg 1.2007-02	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00 and spi Dil. 1 1 2-27 2-27) ike dup ult 0159 0220 0201 0176 ike dup Spil Amou 1 1	<0.0 licate 93 98 106 106 licate mt Ma Re	0176 result. Re Lin 39.6 - 45.4 - 45.3 - result. MS Rec. 105 112	111 c. 141 138 141 142 MSD Rec. 102 108 Anal	45 RPD 5 4 5 5 5 5 5 5 5 1 52 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5	RP Lim 20 21 32 32 32 32 32 33

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¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Dat Reid #1	e: February 28,	2007			-	rder: 7022 teid #1	711	<u>.</u>	Page Number: 12 of 13 Eddy County,NM			
matrix spike	es continued											
			MSD			Spike	Matrix		Rec.		RPD	
Param			Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
			MSD			Spike	Matrix		Rec.		RPD	
Param			Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
Chloride		2	1770	mg/Kg	200	20000	<650	9	84.6 - 117	11	20	
Percent reco	overy is based or	n the spi	ke result					plicate				
Standard	(ICV-1)											
QC Batch:	. ,			Date Ana	alyzed:	2007-02-2	27		An	alyzed B	y: SP	
				ICVs	IC	Ve	ICVs		Percent			
				True	Foi		Percent		Recovery		Date	
Param	Flag	Units		Conc.	Co		Recovery		Limits		alyzed	
DRO	1 1008	mg/Kg	<u>r</u>	250	22		88		85 - 115		7-02-2	
Standard						2007 00 0					0.0	
QC Batch:	35064			Date Ana	alyzed:	2007-02-2	27		An	alyzed B	y: SP	
				CCVs	CC		\mathbf{CCVs}		Percent			
n	-			True	For		Percent		Recovery		Date	
Param	Flag	Units		Conc.		nc.	Recovery		Limits		alyzed	
DRO		mg/Kg	5	250	22	28	91		85 - 115	200	7-02-2	
Standard	(ICV-1)											
QC Batch:	35083			Date Ana	lyzed:	2007-02-2	7		Ana	lyzed By	: KB	
				ICVs	IC	Vs	ICVs		Percent			
				True	Γοι	ind	Percent		Recovery		Date	
Param	Flag	Units		Conc.	Co	nc.	Recovery		Limits	Аг	alyzed	
GRO		mg/K	ξ	1.00	1.0	00	100		85 - 115	200	7-02-2	
Standard	(CCV-1)											
QC Batch:	. ,			Date Ana	dyzed:	2007-02-2	7		Ana	lyzed By	·: KB	
				CCVs	CC	ZVs	CCVs		Percent			
				True	Foi		Percent		Recovery		Date	
Param	Flag	Units		Conc.	Co		Recovery		Limits		alyzed	
GRO		mg/Kį	Ş	1.00	0.9	913	91		85 - 115		7-02-27	
Standard	(ICV-1)											
	. ,			D			-				•••=	
QC Batch:	35084			Date Ana	uyzed:	2007-02-2	1		Ana	lyzed By	: KB	

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²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: Fe Reid #1	bruary 28, 20	007	Wo	rk Order: 7022 Reid #1	Page Number: 13 of 13 Eddy County,NM		
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0972	97	85 - 115	2007-02-27
Toluene		mg/Kg	0.100	0.0962	96	85 - 115	2007-02-27
Ethylbenzene		mg/Kg	0.100	0.0966	97	85 - 115	2007-02-27
Xylene		mg/Kg	0.300	0.286	95	85 - 115	2007-02-27

Standard (CCV-1)

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QC Batch: 35084			Date Analyzed	l: 2007-02-22	Analyzed By: KB		
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0962	96	85 - 115	2007-02-27
Toluene		mg/Kg	0.100	0.0947	95	85 - 115	2007-02-27
Ethylbenzene		mg/Kg	0.100	0.0926	93	85 - 115	2007-02-27
Xylene		mg/Kg	0.300	0.275	92	85 - 115	2007-02-27

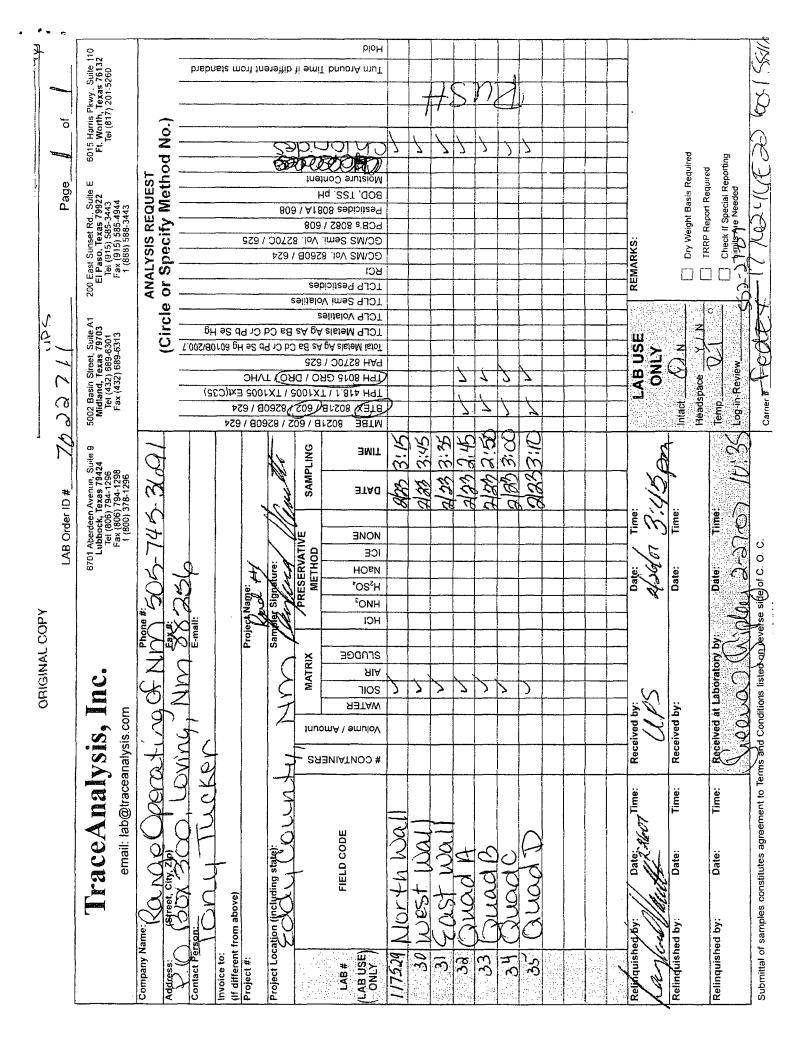
Standard (ICV-1)

QC Batch:	35086		Date Ana	lyzed: 2007-0	Analyzed By: JS		
			ICVs	ICVs	\mathbf{ICVs}	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	98.3	98	85 - 115	2007-02-27
		0/ - 0					

Standard (CCV-1)

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QC Batch: 35086		Date Ana	Date Analyzed: 2007-02-27			Analyzed By: JS	
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2007-02-27



Summary Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: March 13, 2007

Work Order: 7031203

Project Location: Eddy County,NM Project Name: Reid #1

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
118676	North Wall	soil	2007-03-09	13:00	2007-03-10
118677	East Wall	soil	2007-03-09	13 :10	2007-03-10
118678	Floor Comp	soil	2007-03-09	13:25	2007-03-10

Sample: 118676 - North Wall

Param	Flag	Result	Units	RL
Chloride		423	mg/Kg	5.00

Sample: 118677 - East Wall

Param	Flag	\mathbf{Result}	Units	RL
Chloride		145	mg/Kg	5.00

Sample: 118678 - Floor Comp

Param	Flag	Result	Units	RL
Chloride		226	mg/Kg	5.00

6701 Aberdeen Avenue, Suite 9 200 East-Sunset Road, Suite E 5002 Basin Street, Suite AT 5015 Harris Parkway, Suite 119 Ft. Worth, Texas 76132

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

800+378+1296 888+588+3443

806 • 794 • 1295 FAX 806 • 794 • 1298 915+585+3443 432 • 589 • 6301 817 • 201 • 5260

FAX 915+585+4944 FAX 432+589+6313

Analytical and Quality Control Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: March 13, 2007

Work Order: 7031203

Project Location: Eddy County,NM Project Name: Reid #1 **Project Number:** Reid #1

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
118676	North Wall	soil	2007-03-09	13:00	2007-03-10
118677	East Wall	soil	2007-03-09	13:10	2007-03-10
118678	Floor Comp	soil	2007-03-09	13:25	2007-03-10

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

Dr. Blair Leftwich, Director

Standard Flags

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

Report Date: March 13, 2007	Work Order: 7031203
Reid #1	Reid #1

Analytical Report

Sample: 118676 - North Wall

Analysis: QC Batch:	Chloride (Titration) 35496	Analytical Me Date Analyzed		Prep Method: Analyzed By:	,
Prep Batch:		Sample Prepar		Prepared By:	
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		423	mg/Kg	10	5.00

Sample: 118677 - East Wall

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35496 30788	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-03-12 2007-03-12	Prep Method: Analyzed By: Prepared By:	ŚМ
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	* Mg		mg/Kg	10	5.00

Sample: 118678 - Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35496	Date Analyzed:	2007-03-12	Analyzed By:	\mathbf{SM}
Prep Batch:	30788	Sample Preparation:	2007-03-12	Prepared By:	\mathbf{SM}
		\mathbf{RL}			
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		226 I	ng/Kg	4	5.00

Method Blank (1) QC Batch: 35496

QC Batch:	35496	Date Analyzed:	2007-03-12	Analyzed By:	\mathbf{SM}
Prep Batch:	30788	QC Preparation:	2007-03-12	Prepared By:	\mathbf{SM}

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		<3.25	mg/Kg	5

Laboratory Control Spike (LCS-1)

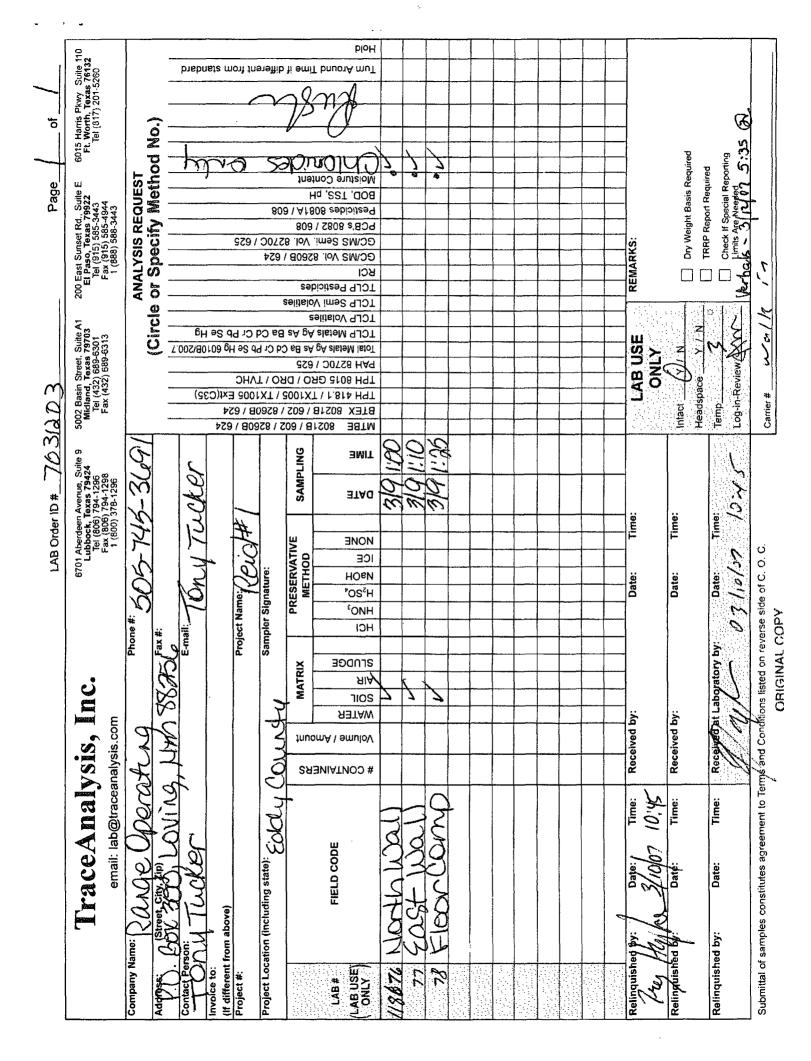
QC Batch:	35496	Date Analyzed:	2007-03-12	Analyzed By:	\mathbf{SM}
Prep Batch:	30788	QC Preparation:	2007-03-12	Prepared By:	\mathbf{SM}

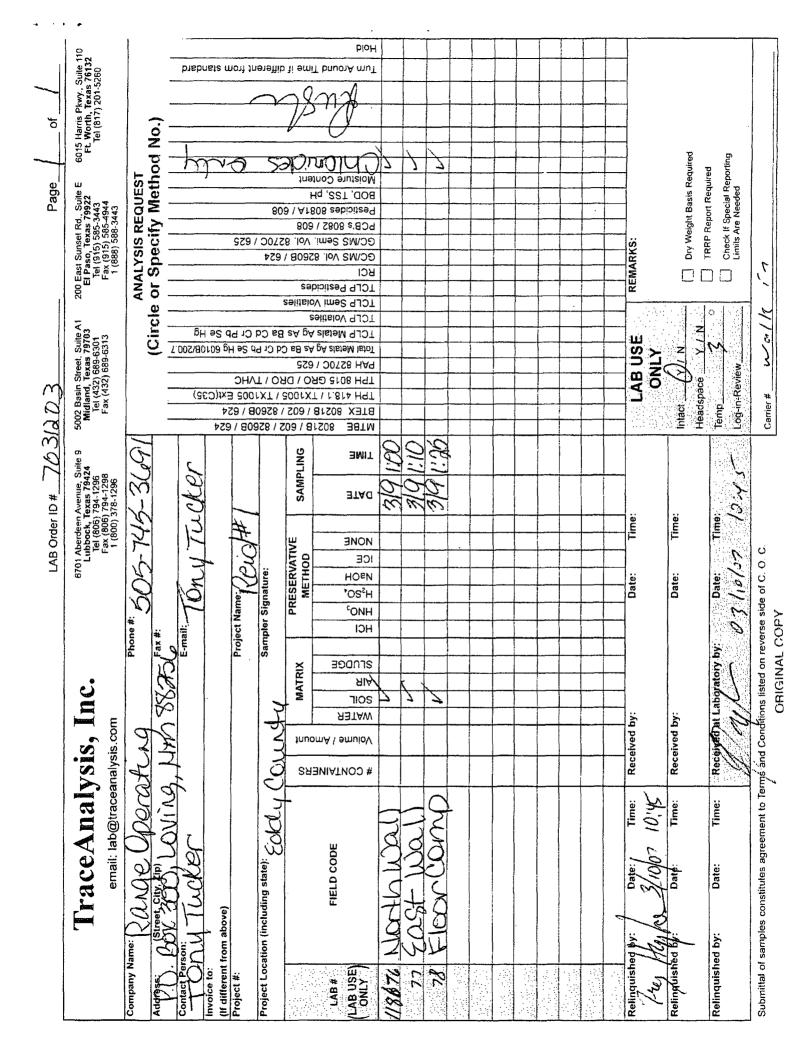
Reid #1	, 2007	Work Order: 7031203 Reid #1				Page Number: 3 of 3 Eddy County,NM			
n		LCS			Spike		trix		Rec.
Param		lesult	Units	Dil.	Amount	_		lec.	Limit
Chloride			mg/Kg	1	100			.02	90 - 110
Percent recovery is based	l on the spike resu	lt. RPD is	based on	the spike a	nd spike du	plicate 1	result.		
	LCSE)		Spike	Matrix		Rec.		RPD
Param	Result	t Units	Dil.	Amount	Result	Rec.	Limit	RPD	\mathbf{Limit}
Chloride	101	mg/Ka	g 1	100	<3.25	101	90 - 110	1	20
Percent recovery is based	l on the spike resul	lt. RPD is	based on	the spike a	nd spike du	plicate r	esult.		
Matrix Spike (MS-1)	Spiked Sample:	118692							
QC Batch: 35496		Date A	nalyzed:	2007-03-	12		An	alyzed B	y: SM
Prep Batch: 30788			paration:					epared B	•
		·	-						
		MS			Spike	Mat	riv		Rec.
Param			Units	Dil.	Amount	Res		с.	Limit
Chloride			ng/Kg	10	1000	1131			4.6 - 117
Percent recovery is based									
D	MSD	T	D:1	Spike	Matrix	D	Rec.	חחח	RPD
Param	Result	\mathbf{Units}	Dil.	\mathbf{Amount}	\mathbf{Result}	Rec.	\mathbf{Limit}	RPD	Limit
Thiorida	2 1010	ma/Va	10	1000		0	846 117	0	20
······	2 1210	mg/Kg		1000	1131.92	8	84.6 - 117	0	20
······	1210				1131.92			0	20
Percent recovery is based	1210				1131.92			0	20
Chloride Percent recovery is based Standard (ICV-1)	1210				1131.92			0	20
Percent recovery is based Standard (ICV-1)	1210	lt. RPD is	based on	the spike a	1131.92 nd spike du		esult.		
Percent recovery is based Standard (ICV-1)	1210	lt. RPD is			1131.92 nd spike du		esult.	0 alyzed B	
Percent recovery is based Standard (ICV-1)	1210	lt. RPD is	based on nalyzed:	the spike a	1131.92 nd spike du		esult.		
Percent recovery is based Standard (ICV-1) QC Batch: 35496	l on the spike resul	lt. RPD is Date Ar	based on nalyzed: IC	the spike a 2007-03-12	1131.92 nd spike du	plicate r	esult. An Percent Recovery	alyzed B	y: SM Date
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag	l on the spike resul	lt. RPD is Date An ICVs True Conc.	based on nalyzed: Fo Co	the spike a 2007-03-1: CVs bund onc.	1131.92 nd spike du ICVs Percent Recovery	plicate r	esult. An Percent Recovery Limits	alyzed B	y: SM Date nalyzed
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag	l on the spike resul	lt. RPD is Date Ar ICVs True	based on nalyzed: Fo Co	the spike a 2007-03-12 CVs pund	1131.92 nd spike du Percent	plicate r	esult. An Percent Recovery	alyzed B	y: SM Date
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag	l on the spike resul	lt. RPD is Date An ICVs True Conc.	based on nalyzed: Fo Co	the spike a 2007-03-1: CVs bund onc.	1131.92 nd spike du ICVs Percent Recovery	plicate r	esult. An Percent Recovery Limits	alyzed B	y: SM Date nalyzed
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride	l on the spike resul	lt. RPD is Date An ICVs True Conc.	based on nalyzed: Fo Co	the spike a 2007-03-1: CVs bund onc.	1131.92 nd spike du ICVs Percent Recovery	plicate r	esult. An Percent Recovery Limits	alyzed B	y: SM Date nalyzed
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride Standard (CCV-1)	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100	based on nalyzed: Fo Ca 1	the spike a 2007-03-12 CVs ound onc. 02	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115	alyzed B A 20	y: SM Date nalyzed 07-03-12
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride Standard (CCV-1)	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100	based on nalyzed: Fo Ca 1	the spike a 2007-03-1: CVs bund onc.	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115	alyzed B	y: SM Date nalyzed 07-03-12
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride Standard (CCV-1)	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100 Date An	based on nalyzed: IC Fo Ca 1 nalyzed:	the spike a 2007-03-12 CVs ound onc. 102 2007-03-12	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115 An	alyzed B A 20	y: SM Date nalyzed 07-03-12
Percent recovery is based Standard (ICV-1) QC Batch: 35496	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100 Date An CCVs	based on nalyzed: IC Fo Cd 1 nalyzed: C	the spike a 2007-03-12 CVs ound onc. 02	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115 An Percent	alyzed B A 20	y: SM Date nalyzed 07-03-12
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride Standard (CCV-1)	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100 Date An	based on nalyzed: IC Fo Ca 1 nalyzed: C' Fo	the spike a 2007-03-12 CVs ound onc. 102 2007-03-12 CVs	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115 An	alyzed B A 20 alyzed B	y: SM Date nalyzed 07-03-12 y: SM

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¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control. ²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.





30-015-26528

February 24, 2006

NMOCD District 2 Office Oil Conservation Division Chris Beadle 1301 West Grand Artesia, New Mexico 88210

RE: Range Operating New Mexico, Inc. Inspection, Reid Battery

Chronology

On February 16, 2006 a spill was discovered at the Range Operating New Mexico, Inc. (Range) site Reid Battery. The spill had occurred when a 1" ball valve was open at the circulating pump. The failure resulted in the loss of approximately 58 barrels of oil and produced water. Approximately 58 barrels of fluids were recovered from inside the firewall. The spill appears to have been completely contained inside the firewall. The site was assessed for a formal work plan and specific site information obtained. WBESI uses the attached information and metrics sheet for summarizing the remediation requirements for this site.

The following is an initial "Remediation Work Plan" for this site:

<u>Reid Battery</u>

General site characteristics Depth to Ground Water: 44' Wellhead Protection Area: 250' to closest well Distance to Nearest Surface Water Body: 1000 yards Site ranking score: 40

Soil remediation action levels

Highly Contaminated / Saturated Soils Benzene 10 ppm, 50 BTEX ppm, TPH 100 ppm

Soil remediation methods

Excavation and disposal (or alternative approved onsite remediation)

Planned analytical testing

BTEX, TPH, Chlorides on soil

Work Plan

- Continue excavation until limits are obtained in a vertical and horizontal direction.
- Sample site for above parameters.
- Determine quantity of spoils removed from the excavated area.

30-015-26522

- Determine most cost effective means of disposal or onsite bioremediation in accordance with NMOCD "Guidelines for Remediation of Leaks, Spills, and Releases".
- Contact NMOCD to set up sampling and post remediation inspection.
- Review analytical results.
- Backfill excavation if limits have been achieved or continue excavation.
- Sampling will be per NMOCD guidance including all walls and floor of the excavation.
- A final report will be issued on behalf of Range to the NMOCD documenting all final activities.
- A final letter of concurrence and closure will be issued by NMOCD if all guidelines have been achieved.

For further questions or comments please contact White Buffalo Environmental Services, Inc. at (325) 651-9054.

Greg Swindle, President WBESI

Enclosures:

Information and Metrics sheet USGS Map Aerial Photo Site Photographs

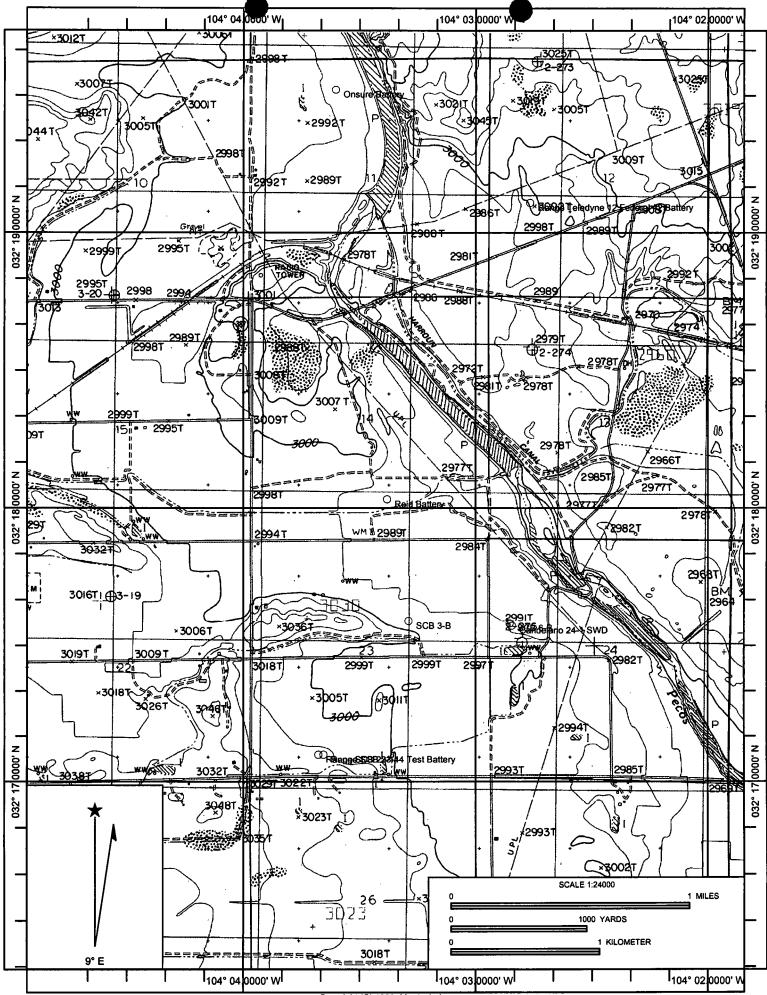
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30-015-26528

RANGE OPERATING NEW MEXICO, INC

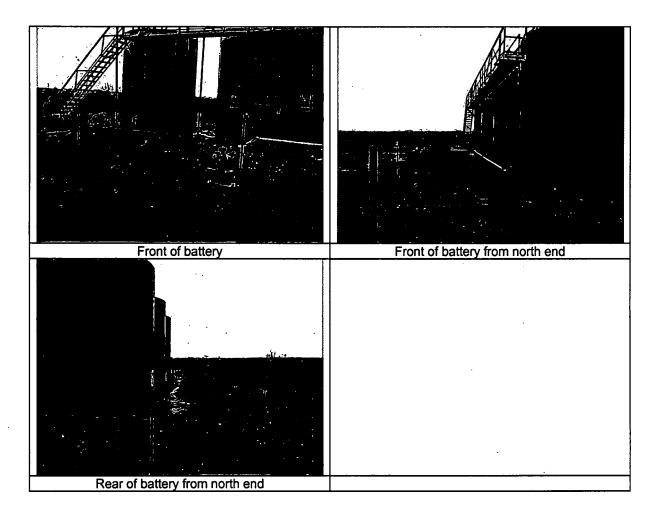
Information and Metrics

· · · · · · · · · · · · · · · · · · ·		Information	and Metrics			
Incident Date: February 1	6,2006		NMOCD Notifie	d: Februa	ry 16, 2006	
Site: Reid Battery Assigned Site Reference #:						
Company: Range Operati	ng New M	lexico, Inc.				
Street Address: 777 Main	Street Sui	ite 800				
Mailing Address: 777 Ma	in Street	Suite 800				
City, State, Zip: Ft. Worth	h, TX 761	02				
Representative: George T						
Representative Telephone	e: (817) 8	70-2601				
Fluid volume released (bt	ols): 58		Recovered (bbls)	: 58		
		10CD verbally within	24 hrs and submit form		hin 15 days.	
	(Also		d releases >500 mcf N			
			form C-141 within 15 a	lays		
Leak, Spill, or Pit (LSP) N				,		
Source of contamination:			<u> </u>			
Land Owner, i.e., BLM, S		ther: Johnny & Ja	ckie L Reid			
LSP Dimensions: 107' X C						
LSP Area: Bases of north						
Location of Reference Po						
Location distance and dir	ection fro	om RP: NA				
Latitude: N 32° 18.021'						
Longitude: W 104° 2.839'						
Elevation above mean sea	level: 29	91' per USGS Map)			
Location- Unit or ¼ ¼: N	W/4 NW/	4 of Sec. 24	Unit Letter: O			
Location Section: 14						
Location- Township: 23S						
Location Range: 28E						
					· · · · · · · · ·	
Surface water body within	n 1000' ra	adius of site: No .3	000 feet per USGS	Мар		
Domestic water wells with				k		
Agricultural water wells						
Depth from land surface				on relation	ship to Pecos River	
Depth of contamination (
Depth to ground water (D		= DtGW): 44'				
1. Ground water		· · · · · · · · · · · · · · · · · · ·	Protection Area	3. Dist	ance to Surface Water Body	
If Depth to GW <50 feet: 20 point	nts	If <1000' from water			zontal feet: 20 points	
If Depth to GW 50 to 99 feet: 10		from private domesti			orizontal feet: 10 points	
	, hours	points		200-1001	ionzontal leet. To points	
ISD at a OWN 100 Section	A .	If >1000' from water		> 1000 1		
If Depth to GW >100 feet: 0 points from private domestic water source: 0 >1000 horizontal feet: 0 points						
Ground Water Score = 20		Wellhead Protection	Area Score = 20	Surface V	/ater Score = 0	
Site Rank $(1+2+3) = 40$						
	Total S	Site Ranking Score an	d Acceptable Concent	trations		
Parameter		12	10-19		0-9	
Benzene		$f(0) = \eta_{g} \cdot \eta$	10 ppm		10 ppm	
BTEX		(1)3 - 3j + 1 6/103 - 4 - 4	50 ppm		50 ppm	
ТРН		- 0.00 j (1. s u] 1,000 ppm		5,000 ppm	



Copyright (C) 1999, Maptech, Inc.

Reid Battery Spill Site Photographs



Bratcher, Mike, EMNRD

From:	Greg Swindle [greg@wbesi.com]
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Sent: Saturday, June 03, 2006 8:59 AM

To: Bratcher, Mike, EMNRD; 'Tony Tucker'

Cc: 'Linda Stiles'

Subject: Reid Remediation

Attachments: Range Resource Reid Battery Spill Workplan.pdf

Mike,

This week it was brought to my attention that the attached workplan may have not been reviewed by Chris Beadle. I show generating this in late February but at that time we were so busy working on a couple of immediate need sites this one may have gotten misplaced. Tony has a good crew out doing cleanup of all sites and cellars and this was brought to my attention by Tony.

I have reviewed this workplan and agree that it is still appropriate. It was a 58 barrel water spill inside the containment. When you get a chance please look this over. Please send me an email noting your review so that we can work this into our site cleanup schedule.

Tony, Linda,

I will be gone this week June 5-9. I will be on vacation but I will be available via email at least daily so stay in touch.

Greg Swindle President White Buffalo Environmental

White Buffalo Environmental Services, Inc. 5425 Ben Ficklin Road San Angelo, Texas 76904 Phone (325) 651-9054 Fax (325) 651-2125 Cell (325) 895-0410

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information, or both. It is intended only for its addressee(s). If you are not an addressee, then any disclosure, dissemination, copying, or other use of it (including any attached documents) is prohibited. If you receive this e-mail in error, please notify us promptly by e-mail reply, and then delete and destroy all electronic and printed copies of this message and any attached documents. We appreciate your cooperation. Report Date: February 12, 2007

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Summary Report

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 Tony Tucker
 Report Date: February 12, 2007

 Range Operating New Mexico Inc.
 Work Order: 7021113

 P.O. Box 300
 Work Order: 7021113

 Loving, NM, 88256
 SOCISS 26538

 Project Location:
 Eddy County,NM

 Project Name:
 Eddy County,NM

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
116095	South Wall	soil	2007-02-07	17:35	2007-02-10

Sample: 116095 - South Wall

Param	Flag	Result	Units	RL
Chloride		197	mg/Kg	5.00



6701 Aberdeen Avenue, Suite 9 155 McCutcheon, Suite H Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79932 888•588•3443 E-Mail lab@traceanalysis.com

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

Analytical and Quality Control Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: February 12, 2007

Work Order: 7021113

Project Location:Eddy County,NMProject Name:Reid #1Project Number:Reid #1

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
116095	South Wall	soil	2007-02-07	17:35	2007-02-10

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

Michael alm

Dr. Blair Leftwich, Director

Standard Flags

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

Report Date: February 12, 2007 Reid #1

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Analytical Report

Sample: 116									
Analysis:	Chloride (Titratio	n)	Analytical Me		I 4500-Cl B			Prep Metho	
QC Batch:	34557		Date Analyze		07-02-12			Analyzed E	
Prep Batch:	29990		Sample Prepa	ration: 200	07-02-12			Prepared B	y: SM
Descuentes			RL		•,	D	•1 .4		ы
Parameter Chloride	Fla	<u>g</u>	Result 197	Ur mg/	nits Ka	D	ilution 10		RL 5.00
			177	ing/	ng		10		5.00
Method Bla	nk (1) QC Bate	h: 34557							
QC Batch:	34557		Date Analyzed:	2007-02-1	2			Analyzed E	y: ER
Prep Batch:	29990		QC Preparation:	2007-02-1	2			Prepared B	-
			М	IDL					
Parameter	<u> </u>	Flag		sult		Units			RL
Chloride			<3	3.25		mg/Kg	3		5
QC Batch:	Control Spike (LC 34557	CS-1)	Date Analyzed:	2007-02-1				Analyzed B	•
QC Batch:	-	CS-1)	Date Analyzed: QC Preparation:	2007-02-1 2007-02-1				Analyzed E Prepared B	•
Laboratory QC Batch: Prep Batch:	34557	2 S-1) LC	QC Preparation:			Matri	ix	•	•
QC Batch: Prep Batch: Param	34557	LC: Rest	QC Preparation: S alt Units		2 Spike Amount	Resu	lt	Prepared B Rec.	y: SM Rec. Limit
QC Batch: Prep Batch: Param	34557	LC	QC Preparation: S ult Units	2007-02-1	2 Spike		lt	Prepared B	y: SM Rec.
QC Batch: Prep Batch: Param Chloride	34557 29990	LC Resu 99.	QC Preparation: S alt Units	2007-02-1 Dil.	2 Spike Amount 100	Resu <3.2	lt	Prepared B Rec.	y: SM Rec. Limit
QC Batch: Prep Batch: Param Chloride	34557 29990	LC Resu 99.	QC Preparation: S alt Units 9 mg/Kg	2007-02-1 Dil.	2 Spike Amount 100	Resu <3.2	lt	Prepared B Rec.	y: SM Rec. Limit
QC Batch: Prep Batch: Param Chloride Percent recov Param	34557 29990	LC Rest 99. spike result. RP LCSD Result	QC Preparation: S alt Units 9 mg/Kg D is based on the sp Units Dil.	2007-02-1 Dil. I ike and spike Spike Amount	2 Spike Amount 100 e duplicate re Matrix Result	Resu <3.2 esult. Rec.	lt 5 Rec. Limit	Prepared B Rec. 100	y: SM Rec. <u>Limit</u> 90 - 110 RPD Limit
QC Batch: Prep Batch: Param Chloride Percent recov Param	34557 29990	LC Rest 99. spike result. RPI LCSD	QC Preparation: S ult Units 9 mg/Kg D is based on the sp	2007-02-1 Dil. I ike and spike Spike	2 Spike Amount 100 e duplicate re Matrix	Resu <3.2 esult.	lt 5 Rec.	Prepared B Rec. 100	y: SM Rec. Limit 90 - 110 RPD
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride	34557 29990 very is based on the	LC Resu 99. spike result. RP LCSD Result 101	QC Preparation: S alt Units 9 mg/Kg D is based on the sp Units Dil.	2007-02-1 Dil. I ike and spike Spike Amount 100	2 Spike Amount 100 e duplicate re Matrix Result <3.25	Resu <3.2 esult. Rec. 101	lt 5 Rec. Limit	Prepared B Rec. 100	y: SM Rec. <u>Limit</u> 90 - 110 RPD Limit
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride Percent recov	34557 29990 very is based on the very is based on the	LC Resu 99. spike result. RP LCSD Result 101	QC Preparation: S alt Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp	2007-02-1 Dil. I ike and spike Spike Amount 100	2 Spike Amount 100 e duplicate re Matrix Result <3.25	Resu <3.2 esult. Rec. 101	lt 5 Rec. Limit	Prepared B Rec. 100	y: SM Rec. Limit 90 - 110 RPD Limit
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride	34557 29990 very is based on the very is based on the	LC Resu 99. spike result. RPI LCSD Result 101 spike result. RPI	QC Preparation: S alt Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp	2007-02-1 Dil. I ike and spike Spike Amount 100	2 Spike Amount 100 e duplicate re Matrix Result <3.25 e duplicate re	Resu <3.2 esult. Rec. 101	lt 5 Rec. Limit	Prepared B Rec. 100	y: SM Rec. Limit 90 - 110 RPD Limit 20
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride Percent recov Matrix Spika QC Batch:	34557 29990 very is based on the very is based on the e (MS-1) Spiked	LC Resu 99. spike result. RPI LCSD Result 101 spike result. RPI	QC Preparation: S ult Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp	2007-02-1 Dil. I ike and spike Amount 100 ike and spike	2 Spike Amount 100 e duplicate re Matrix Result <3.25 e duplicate re	Resu <3.2 esult. Rec. 101	lt 5 Rec. Limit	Prepared B Rec. 100 t RPD 10 1	y: SM Rec. Limit 90 - 110 RPD Limit 20 Sy: ER
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride Percent recov Matrix Spika QC Batch:	34557 29990 /ery is based on the /ery is based on the e (MS-1) Spiked 34557	LC Resu 99. spike result. RPI LCSD Result 101 spike result. RPI	QC Preparation: S ult Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp D is based on the sp	2007-02-1 Dil. I ike and spike Amount 100 ike and spike 2007-02-1	2 Spike Amount 100 e duplicate re Matrix Result <3.25 e duplicate re	Resu <3.2 esult. Rec. 101	lt 55 Rec. Limit 90 - 11	Prepared B Rec. 100 RPD 0 1 Analyzed E Prepared B	y: SM Rec. Limit 90 - 110 RPD Limit 20 Sy: ER y: SM Rec.
QC Batch: Prep Batch: Param Chloride Percent recov Param Chloride Percent recov Matrix Spike	34557 29990 /ery is based on the /ery is based on the e (MS-1) Spiked 34557	LC Resu 99. spike result. RPI LCSD Result 101 spike result. RPI Sample: 116102	QC Preparation: S 11t Units 9 mg/Kg D is based on the sp Units Dil. mg/Kg 1 D is based on the sp Date Analyzed: QC Preparation: It Units	2007-02-1 Dil. I ike and spike Amount 100 ike and spike 2007-02-1	2 Spike Amount 100 e duplicate re Matrix Result <3.25 e duplicate re	Resu <3.2 esult. Rec. 101 esult.	lt 55 Rec. Limit 90 - 11	Prepared B Rec. 100 t RPD 0 1 Analyzed E Prepared B Rec.	y: SM Rec. Limit 90 - 110 RPD Limit 20 By: ER y: SM

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

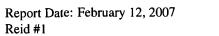
¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: February 12, 2007 Reid #1				Work Order: 7021113 Reid #1				Page Number: 3 of 4 Eddy County,NM		
Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		2 366	mg/Kg	4	400	157.185	52	84.6 - 117	3	20
Percent reco	overy is based on	the spike result. F	RPD is based	l on the s	pike and spil	ke duplicate r	esult.			
Standard (ICV- 1)									
orundur u (
QC Batch:	34557		Date A	nalyzed:	2007-02-1	2		An	alyzed B	y: ER
			ICVs	Ι	CVs	ICVs		Percent		
			True	F	ound	Percent		Recovery		Date
Param	Flag	Units	Conc.	0	Conc.	Recovery		Limits		alyzed
Chloride		mg/Kg	100		99.5	100		85 - 115	200	7-02-12
Standard (CCV-1)									
QC Batch:	34557		Date A	nalyzed:	2007-02-1	2		An	alyzed B	y: ER
			CCVs	C	CCVs	CCVs		Percent		
			True	F	ound	Percent		Recovery]	Date
Param	Flag	Units	Conc.	C	Conc.	Recovery		Limits	An	alyzed
Chloride		mg/Kg	100		100	100		85 - 115	200	7-02-12

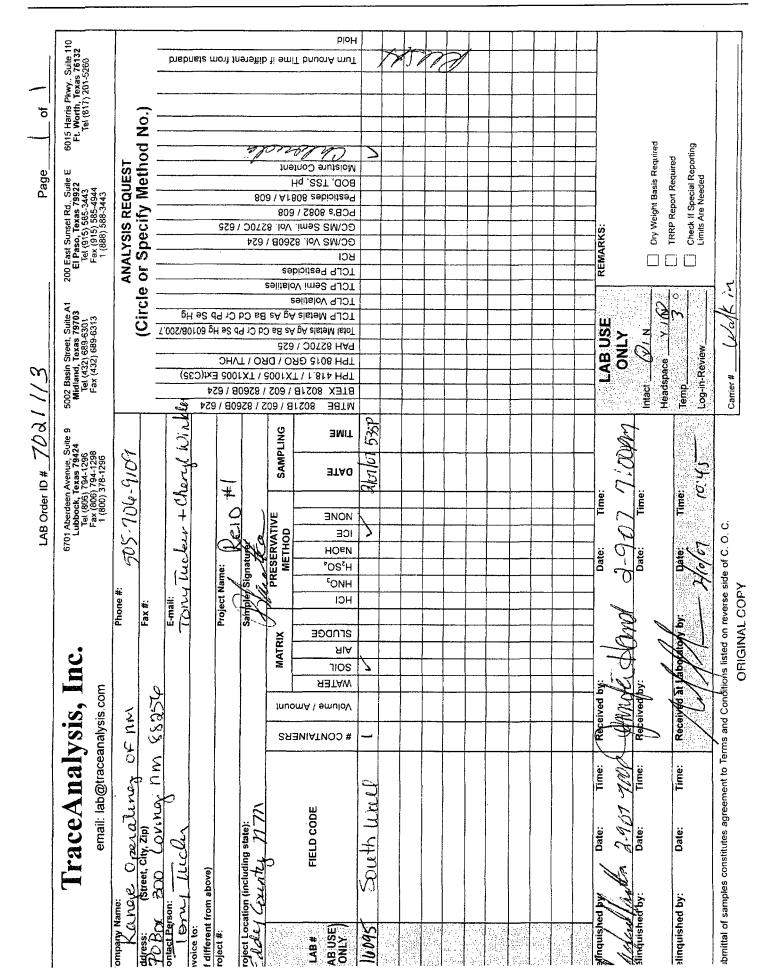
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²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.



Work Order: 7021113 Reid #1



Report Date: February 28, 2007

Summary Report

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Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: February 28, 2007

Work Order: 7022711

Project Name: Reid #1

Project Location: Eddy County,NM 30-015-26528

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
117529	North Wall	soil	2007-02-23	15:15	2007-02-27
117530	West Wall	soil	2007-02-23	15:45	2007-02-27
117531	East Wall	soil	2007-02-23	15:35	2007-02-27
117532	Quad A	soil	2007-02-23	14:45	2007-02-27
117533	Quad B	soil	2007-02-23	14:50	2007-02-27
117534	Quad C	soil	2007-02-23	15:00	2007-02-27
117535	Quad D	soil	2007-02-23	15:10	2007-02-27

		BTEX				TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
117532 - Quad A	< 0.0100	< 0.0100	<0.0100	< 0.0100		413	13.1
117533 - Quad B	< 0.0100	<0.0100	< 0.0100	<0.0100		232	2.39
117534 - Quad C	< 0.0100	< 0.0100	< 0.0100	<0.0100		<50.0	<1.00
117535 - Quad D	< 0.0100	< 0.0100	< 0.0100	<0.0100		<50.0	<1.00

Sample: 117529 - North Wall

Param	Flag	Result	\mathbf{Units}	\mathbf{RL}
Chloride		1180	mg/Kg	5.00

Sample: 117530 - West Wall

Param	Flag	Result	Units	RL
Chloride		572	mg/Kg	5.00

Sample: 117531 - East Wall

Param	Flag	Result	Units	RL
Chloride		1330	mg/Kg	5.00

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: February 28, 2007		Work Order: 7022711 Reid #1		Page Number: 2 of 2 Eddy County,NM	
Sample: 117532	- Quad A				
Param	Flag	Result	Units	RL	
Chloride		959	mg/Kg	5.00	
Sample: 117533	- Quad B				
Param	Flag	Result	Units	RL	
Chloride		628	mg/Kg	5.00	
Sample: 117534	- Quad C				
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		971	mg/Kg	5.00	
Sample: 117535	- Quad D				
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		719	mg/Kg	5.00	

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TRACEANALYSIS, INC.

EV.H. Attractivent Accession, Suite 5 — Lubbrom Texas, 70424 200 Cast Sonivet Road, Slitte F — El Posto, Texas, 49427 5042 Basim Nitreat, Suite AT — El Montal (Journ 1970) 6015 Hamis Parkway, Suite CT — El Worth, Texas 73132

Lubtrict Texas 79424 - 600+378+12%6
 E. Duve, Texas 79424 - 689+668+3443
 Mathania Texas 79703
 Ta Warth, Texas 79132
 E. Mart Texas 79132

868+378+1296 206+794+1296 389+698+3443 915+535+6443 402+609+6301 517+20+6301

1296 - FAX 866+704+1298 9443 - FAX 910+645+4944 0101 - FAX 432+682+6313 5269

Analytical and Quality Control Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

10000

Project Location:Eddy County,NMProject Name:Reid #1Project Number:Reid #1

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
117529	North Wall	soil	2007-02-23	15:15	2007-02-27
117530	West Wall	soil	2007-02-23	15:45	2007-02-27
117531	East Wall	soil	2007-02-23	15:35	2007-02-27
117532	Quad A	soil	2007-02-23	14:45	2007-02-27
117533	Quad B	soil	2007-02-23	14:50	2007-02-27
117534	Quad C	soil	2007-02-23	15:00	2007-02-27
117535	Quad D	soil	2007-02-23	15:10	2007-02-27

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

Michael 4

Dr. Blair Leftwich, Director

Standard Flags

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

Report Date: February 28, 2007 Work Order: 7022711

reot, sono 41 — 14.6 arkway, Suko IIIP – 14. Wi Sample: 117529 - North Wall

Analytical Report

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-02-27 2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		1180	mg/Kg	20	5.00

Sample: 117530 - West Wall

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Metho Date Analyzed: Sample Preparatio	2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
_	_	RL		-	~ *
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		572	mg/Kg	10	5.00

Sample: 117531 - East Wall

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-02-27 2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
		RL			D 7
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		1330	mg/Kg	20	5.00

Sample: 117532 - Quad A

Analysis: QC Batch: Prep Batch:	BTEX 35084 30441		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-02-27 2007-02-27		Prep Metho Analyzed By Prepared By	
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units	D	ilution	\mathbf{RL}
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	9		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg_		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.990	mg/Kg	g 1	1.00	99	52.1 - 131
4-Bromofluor	obenzene (4-BFB)		1.05	mg/Kg	-	1.00	105	48.7 - 146

Sample: 117532 - Quad A

Analysis: QC Batch: Prep Batch:	ch: 35086 Date Analyzed:		2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	<u> </u>	959	mg/Kg	10	5.00

Sample: 117532 - Quad A

Analysis: QC Batch: Prep Batch:	TPH DRO 35064 30431		Analytical Me Date Analyze Sample Prepa	d: 2007	8015B -02-27 -02-27	Analyz	fethod: N/A ed By: SP ed By: SP
Parameter	Fla	Ţ	RL Result	U	nits	Dilution	RL
DRO		· · · · · · · · · · · · · · · · · · ·	413	mg	/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	175	mg/Kg	1	150	117	62.5 - 164

Sample: 117532 - Quad A

Analysis: QC Batch: Prep Batch:	TPH GRO 35083 30441		Analytical Date Anal Sample Pr		S 8015B 2007-02-27 2007-02-27		Prep Meth Analyzed Prepared	By: KB
Parameter	Flag		RL Result		Units	П	vilution	RL
GRO			13.1		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu 4-Bromofluor	ene (TFT) robenzene (4-BFB)		0.955 1.26	mg/Kg mg/Kg	1 1	1.00 1.00	96 126	33.2 - 160 10 - 227

Sample: 117533 - Quad B

Analysis: QC Batch: Prep Batch:	BTEX 35084 30441		Analytical Method: Date Analyzed: Sample Preparation:	S 8021B 2007-02-27 2007-02-27	Prep Method: Analyzed By: Prepared By:	KB
			RL			
Parameter		\mathbf{F} lag	Result	Units	Dilution	\mathbf{RL}
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzen	9		<0.0100	mg/Kg	1	0.0100
					continued	

continued ...

sample 117533 continued ...

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			\mathbf{RL}					
Parameter	Flag		Result		\mathbf{Units}	Di	ilution	\mathbf{RL}
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	\mathbf{Units}	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.01	mg/Kg	1	1.00	101	52.1 - 131
4-Bromofluorobenzene (4-BI	FB)		1.02	mg/Kg	1	1.00	102	48.7 - 146

Sample: 117533 - Quad B

oride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
86	Date Analyzed:	2007-02-27	Analyzed By:	JS
48	Sample Preparation:	2007-02-27	Prepared By:	SM
	RL			
\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
	628	mg/Kg	10	5.00
	86 48	86 Date Analyzed: 48 Sample Preparation: RL Flag Result	86 Date Analyzed: 2007-02-27 48 Sample Preparation: 2007-02-27 RL Flag Result Units	86 Date Analyzed: 2007-02-27 Analyzed By: 48 Sample Preparation: 2007-02-27 Prepared By: RL Flag Result Units Dilution

Sample: 117533 - Quad B

n-Triacontan	e	181	mg/Kg	1	150	121	62.5 - 164
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
DRO			232	mg	/Kg	1	50.0
Parameter	Fla	g	RL Result	U	nits	Dilution	RL
Analysis: QC Batch: Prep Batch:	TPH DRO 35064 30431		Analytical Me Date Analyze Sample Prepa	ed: 2007-02-27		Analyz	fethod: N/A ed By: SP ed By: SP

Sample: 117533 - Quad B

Analysis: TPH GRO QC Batch: 35083 Prep Batch: 30441			Analytical Method: Date Analyzed: Sample Preparation:		S 8015B 2007-02-27 2007-02-27		nod: S 5035 By: KB By: KB	
			\mathbf{RL}					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units	D	ilution	\mathbf{RL}
GRO			2.39		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.980	mg/Kg	1	1.00	98	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	10 - 227

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Page 1	Numl	ber:	5 of	13
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Sample: 117534 - Quad C

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Analysis: QC Batch: Prep Batch:	BTEX 35084 30441		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-02-27 2007-02-27		Prep Met Analyzed Prepared	By: KB
			\mathbf{RL}					
Parameter	Fla	g	Result		Units	J	Dilution	\mathbf{RL}
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	9		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		\mathbf{F} lag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.00	mg/Kg	; 1	1.00	100	52.1 - 131
4-Bromofluor	obenzene (4-BFB)		1.03	mg/Kg	; 1	1.00	103	48.7 - 146

Sample: 117534 - Quad C

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-02-27 2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		971	mg/Kg	10	5.00

Sample: 117534 - Quad C

Analysis:TPH DROQC Batch:35064Prep Batch:30431			v		Mod. 8015B 2007-02-27 2007-02-27		Prep Method: Analyzed By: Prepared By:		N/A SP SP
Parameter	Fla	Ŧ	RL Result		Unit		Dilution		\mathbf{RL}
DRO	Fla	5	<50.0		mg/K		1		50.0
Surrogate	Flag	Result	Units	Dilut		Spike Amount	Percent Recovery		overy mits
n-Triacontan	e	185	mg/Kg	1		150	123	62.5	- 164

Sample: 117534 - Quad C

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	35083	Date Analyzed:	2007-02-27	Analyzed By:	KB
Prep Batch:	30441	Sample Preparation:	2007-02-27	Prepared By:	KB

continued ...

sample 117534 continued

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Parameter	Flag		RL Result		Units	D	vilution	RL
			RL					
Parameter	Flag		Result		Units	D	vilution	\mathbf{RL}
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (T	TFT)		0.964	mg/Kg	1	1.00	96	33.2 - 160
4-Bromofluorobenzene (4-BFB)			1.02	mg/Kg	1	1.00	102	10 - 227

Sample: 117535 - Quad D

Analysis: QC Batch: Prep Batch:	BTEX 35084 30441		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-02-27 2007-02-27		Prep Meth Analyzed I Prepared I	By: KB
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units	D	ilution	\mathbf{RL}
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	e		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.10	mg/Kg	g 1	1.00	110	52.1 - 131
4-Bromofluor	robenzene (4-BFB)		1.13	mg/Kg	g 1	1.00	113	48.7 - 146

Sample: 117535 - Quad D

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35086 30448	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2007-02-27 : 2007-02-27	Prep Method: Analyzed By: Prepared By:	JŚ
_		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		719	mg/Kg	10	5.00

Sample: 117535 - Quad D

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	35064	Date Analyzed:	2007-02-27	Analyzed By:	SP
Prep Batch:	30431	Sample Preparation:	2007-02-27	Prepared By:	SP

continued ...

sample 117535 continued ...

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Parameter	Fla	g	RL Result	Uni	ts	Dilution	RL
			\mathbf{RL}				
Parameter	Fla	g	\mathbf{Result}	Uni	ts	Dilution	\mathbf{RL}
DRO				mg/Kg		1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		173	mg/Kg	1	150	115	62.5 - 164

Sample: 117535 - Quad D

Analysis: QC Batch: Prep Batch:	TPH GRO 35083 30441		Analytical Method:S 8015BPrep MethodDate Analyzed:2007-02-27Analyzed BySample Preparation:2007-02-27Prepared By		By: KB			
			\mathbf{RL}					
Parameter	Flag		Result		\mathbf{Units}	D	ilution	\mathbf{RL}
GRO	·····		<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)	1 100	1.06	mg/Kg	1	1.00	106	33.2 - 160
	robenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	10 - 227

Method Blank (1) QC Batch: 35064

QC Batch: Prep Batch:	35064 30431		Date Analyze QC Preparat				lyzed By: SP pared By: SP
				MDL			
Parameter		Flag		Result		Units	\mathbf{RL}
DRO				<10.7	r.	ng/Kg	50
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	е	147	mg/Kg	1	150	98	62.5 - 164

Method Blank (1) QC Batch: 35083

QC Batch:	35083		Date Analyzed:	2007-02-27		Analyzed By:	KB
Prep Batch:	30441		QC Preparation:	2007-02-27		Prepared By:	KB
							
			M	DL			
Parameter		Flag	Res	sult	\mathbf{Units}		\mathbf{RL}
GRO			<0.2	121	mg/Kg		1

Report Date: February 28, Reid #1	2001		R	der: 7022 eid #1			E	ddy Cou	m
Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery		ec Liı
Trifluorotoluene (TFT)		0.939	mg/K		1	1.00	94	73	
4-Bromofluorobenzene (4-B	FB)	0.715	mg/K	g	1	1.00	72	70).5
Method Blank (1) G	QC Batch: 35084								
QC Batch: 35084 Prep Batch: 30441		Date Ana QC Prepa		2007-02-3 2007-02-3				lyzed By bared By	
Parameter	Flag			MDL esult		Un	its		
Benzene	5			0159		mg/		<u> </u>	
Toluene				0220		mg	/Kg		
Ethylbenzene				0201		mg/			
Xylene			<0.0	0176		mg	ng	······	
		Result	Units	Dil	ution	Spike Amount	Percent Recovery		ec Lii
Surrogate	Flag	recourt	0						
Trifluorotoluene (TFT)		0.949	mg/K		1	1.00	95	73.	.2
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B					1	1.00 1.00	-	73.	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B	FB)	0.949	mg/K mg/K alyzed:		1		95 68 Ana	73.	.2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448	FB) QC Batch: 35086	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI	2007-02- 2007-02- DL	1	1.00	95 68 Ana Pre	73. 54 alyzed B	5.2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter	FB)	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI Resu	2007-02- 2007-02- 2007-02- DL ılt	1	1.00 Uni	95 68 Ana Pre ts	73. 54 alyzed B	5.2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448	FB) QC Batch: 35086	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI	2007-02- 2007-02- 2007-02- DL ılt	1	1.00	95 68 Ana Pre ts	73. 54 alyzed B	4 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter	FB) QC Batch: 35086 Flag	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI Resu	2007-02- 2007-02- 2007-02- DL ılt	1	1.00 Uni	95 68 Ana Pre ts	73. 54 alyzed B	5.2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil	FB) QC Batch: 35086 Flag	0.949 0.680 Date Ana QC Prep	mg/K mg/K alyzed: paration: MI Ress <3.	2007-02- 2007-02- 2007-02- DL ılt	1 27 27	1.00 Uni	95 68 Ana Pre ts Kg	73 54 alyzed B pared B	3.2 4 3 y
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride	FB) QC Batch: 35086 Flag	0.949 0.680 Date Ana	mg/K mg/K alyzed: paration: MI Resu <3.	g 2007-02- 2007-02- DL 1lt 25	1 27 27 27 27	1.00 Uni	95 68 Ana Pre ts Kg Ana	73. 54 alyzed B	3.2 4 5 y y:
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: 35064 Prep Batch: 30431	FB) C Batch: 35086 Flag ke (LCS-1)	0.949 0.680 Date Ana QC Prep Date Ana QC Prep	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration:	g 2007-02- 2007-02- DL 1lt 25 2007-02- 2007-02-	1 27 27 27 27 27 27 5pike	1.00 Uni mg/	95 68 Ana Pre ts Kg Ana Prej rix	73. 54 alyzed B pared B lyzed By pared By	3.2 4 3y y: y: y:
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: QC Batch: 35064 Prep Batch: 30431 Param 30431	FB) C Batch: 35086 Flag ke (LCS-1) LC Res	0.949 0.680 Date Ana QC Prep Date Ana QC Prep CS Sult U	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration: Jnits	g 2007-02- 2007-02- DL 1lt 25 2007-02- 2007-02- Dil.	1 27 27 27 27 27 27 27 Spike Amount	1.00 Uni mg/ Mat Res	95 68 Ana Pre Kg Ana Prej .rix ult Rec.	73. 54 alyzed B pared B pared By pared By	.2 4 y: y: y: r F
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: 35064 Prep Batch: 30431	FB) 2C Batch: 35086 Flag ke (LCS-1) LC Res 20	0.949 0.680 Date Ana QC Prep Date Ana QC Prep CS sult U	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration: Jnits g/Kg	g 2007-02- 2007-02- DL 1lt 225 2007-02- 2007-02- Dil. 1	1 27 27 27 27 27 27 27 27 27 27 27 27 27	1.00 Uni mg/ Mat Res <10	95 68 Ana Pre ts Kg Ana Prej .rix ult Rec. 0.7 82	73. 54 alyzed B pared B lyzed By pared By	2 4 5 y y: y: y: F L
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based on	FB) QC Batch: 35086 Flag ke (LCS-1) LCSD	0.949 0.680 Date Ana QC Prep Date Ana QC Prep CS sult U 06 mi	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration: <u>Jnits</u> g/Kg ased on t	g 2007-02- 2007-02- DL 1lt 25 2007-02- 2007-02- Dil. 1 he spike a Spike	1 27 27 27 27 27 27 27 27 27 27 27 27 27	1.00 Uni mg/ Mat Res <10	95 68 Ana Pre ts Kg Ana Prej ult Rec. Rec.	73. 54 alyzed B pared B pared By pared By	2 4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B Method Blank (1) Q QC Batch: 35086 Prep Batch: 30448 Parameter Chloride Laboratory Control Spil QC Batch: QC Batch: 35064 Prep Batch: 30431 Param DRO	FB) QC Batch: 35086 Flag ke (LCS-1) LC Res 20 n the spike result.	0.949 0.680 Date Ana QC Prep Date Ana QC Prep CS sult U	mg/K mg/K alyzed: paration: MI Resu <3. alyzed: aration: Jnits g/Kg	2007-02- 2007-02- DL 1lt 25 2007-02- 2007-02- Dil. 1 he spike a	1 27 27 27 27 27 27 27 27 27 27 27 27 27	1.00 Uni mg/ Mat Res <10	95 68 Ana Pre ts Kg Ana Prej rix ult Rec. 0.7 82 result.	73. 54 alyzed B pared B pared By pared By	y: y: y: y: Li

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	LCS	LCSD				Spike	LC	s	LCSD		Rec.
Surrogate	Result	Result		Inits	Dil.	Amount			Rec.		Limit
	LCS	LCSD				Cnilia	LC	IC	LCSD		Rec.
Surrogate	Result	Result		Inits	Dil.	Spike Amount			Rec.		Limit
n-Triacontane	146	153		g/Kg	1	150	<u> </u>		102		.5 - 164
	140	100		g/ Kg	1	100	9		102		.5 - 104
Laboratory Control Sp	oike (LCS	-1)									
QC Batch: 35083			Date A	alyzed:	2007-02	-27			Analy	zed By	: KB
Prep Batch: 30441			QC Pre							ared By	
		LCS				Spike		atrix			Rec.
Param		Resu		Units	Dil.	Amoun		sult	Rec.		Limit
GRO		9.1′	7 r	ng/Kg	1	10.0	<0	.121	92	79.	.6 - 113
Percent recovery is based	on the spi	ke result.	RPD is	based of	n the spike	and spike	duplicate	result.			
		LCSD			Spike	Matrix	:	Re	ec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Lin	nit	RPD	Limit
GRO		9.47	mg/Kg	1	10.0	< 0.121	95	79.6	- 113	3	20
Percent recovery is based	on the spi	ke result.	RPD is	based of	n the spike	and spike	duplicate	result.			
Ū	•				•	-	-		I COD		n
n ,		LCS		SD	TT */		Spike	LCS	LCSE		Rec.
Surrogate		Resul		sult	Units		mount	Rec.	Rec.		Limit
Trifluorotoluene (TFT)		0.932 0.879			mg/Kg mg/Kg		1.00	93 88	96 91		1 - 117
4-Bromofluorobenzene (4-	DFD)	0.873		114			1 00			(0.	.1 - 118
					III <u>B/ IK</u> B	1	1.00		51		
Laboratory Control Sp	oike (LCS	-1)		<u> </u>	<u></u>	1	1.00				
	oike (LCS	-1)	Date A				1.00				: КВ
QC Batch: 35084	oike (LCS	5-1)	Date An QC Pre	nalyzed:	2007-02	-27	1.00		Analy	zed By	
QC Batch: 35084	oike (LCS	-1)		nalyzed:	2007-02	-27	1.00		Analy	zed By	
QC Batch: 35084	oike (LCS	-1) LCS	QC Pre	nalyzed:	2007-02	-27		trix	Analy	zed By ared By	
QC Batch: 35084 Prep Batch: 30441	oike (LCS		QC Pre	nalyzed:	2007-02	-27 -27	Ма		Analy	vzed By ared By	: KB
QC Batch: 35084 Prep Batch: 30441 Param	oike (LCS	LCS	QC Pre	nalyzed: paratior	2007-02 a: 2007-02	-27 -27 Spike	Ma Re <0.0	trix sult 0159	Analy Prepa	vzed By ared By	: KB Rec. Limit
QC Batch: 35084 Prep Batch: 30441 Param Benzene	ike (LCS	LCS Resu	QC Pre	nalyzed: paratior Jnits g/Kg g/Kg	2007-02 n: 2007-02 Dil.	-27 -27 Spike Amount 1.00 1.00	Ma Re <0.0 <0.0	trix sult 0159 0220	Analy Prepa Rec. 98 97	vzed By ared By 1 76	: KB Rec. Limit 3 - 117
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene	ike (LCS	LCS Resu 0.973 0.96 0.949	QC Pre	nalyzed: paratior Jnits g/Kg g/Kg g/Kg	2007-02 n: 2007-02 Dil. 1 1 1	-27 -27 Spike Amount 1.00 1.00 1.00	Ma Re: <0.0 <0.0 <0.0	trix sult 0159 0220 0201	Analy Prepa Rec. 98 97 95	vzed By ared By 76. 77. 75.	: KB Rec. Limit 3 - 117 3 - 114 4 - 115
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene		LCS Resu 0.977 0.967 0.949 2.80	QC Pre	nalyzed: paratior Jnits g/Kg g/Kg g/Kg g/Kg	2007-02 n: 2007-02 Dil. 1 1 1 1	-27 -27 Amount 1.00 1.00 1.00 3.00	Ma Re: <0.0 <0.0 <0.0 <0.0	trix sult 0159 0220 0201 0176	Analy Prepa Rec. 98 97	vzed By ared By 76. 77. 75.	: KB Rec. Limit 3 - 117 3 - 114
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene		LCS Resul 0.977 0.967 0.949 2.80 ke result.	QC Pre	nalyzed: paratior Jnits g/Kg g/Kg g/Kg g/Kg	2007-02 n: 2007-02 Dil. 1 1 1 1 1 n the spike	-27 -27 Amount 1.00 1.00 1.00 3.00	Ma Re: <0.0 <0.0 <0.0 <0.0	trix sult 0159 0220 0201 0176	Analy Prepa Rec. 98 97 95	vzed By ared By 76. 77. 75.	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based		LCS Resul 0.977 0.967 0.949 2.80 ke result. LCSD	QC Pre	nalyzed: paratior g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg based or	2007-02 n: 2007-02 Dil. 1 1 1 1 n the spike Spike	-27 -27 Spike <u>Amount</u> 1.00 1.00 1.00 3.00 and spike Matrix	Ma Re: <0.0 <0.0 <0.0 <0.0 duplicate	trix sult 0159 0220 0201 0176 result. Ra	Analy Prepa Rec. 98 97 95 93 ec.	/zed By ared By 76. 77. 75. 73.	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based Param		LCS Resul 0.976 0.949 2.80 ke result. LCSD Result	QC Pre	nalyzed: paration g/Kg g/Kg g/Kg based on Dil.	2007-02 n: 2007-02 Dil. 1 1 1 1 n the spike Spike Amount	-27 Spike Amount 1.00 1.00 3.00 and spike Matrix Result	Ma Re: <0.0 <0.0 <0.0 duplicate Rec.	trix sult 0159 0220 0201 0176 result. Ra Lin	Analy Prepa Rec. 98 97 95 93 ec. mit	rzed By ared By 76. 77. 75. 73. RPD	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD Limit
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based Param Benzene		LCS Resul 0.97 0.94 2.80 ke result LCSD Result 0.954	QC Pre	nalyzed: paratior g/Kg g/Kg g/Kg g/Kg based or Dil. 1	2007-02 2007-02 Dil. 1 1 1 1 n the spike Spike Amount 1.00	-27 Spike Amount 1.00 1.00 3.00 and spike Matrix Result <0.0015	Ma Re <0.0 <0.0 <0.0 duplicate Rec. 9 95	trix sult 0159 0220 0201 0176 result. Ra Lin 76.3	Analy Prepa <u>Rec.</u> 98 97 95 93 ec. mit - 117	/zed By ared By 76. 77. 75. 73. RPD 2	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD Limit 20
QC Batch: 35084 Prep Batch: 30441 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based Param Benzene Toluene		LCS Resul 0.97 0.94 2.80 ke result LCSD Result 0.954 0.943	QC Pre	Jnits Jnits g/Kg g/Kg g/Kg based of Dil. 1 1	2007-02 2007-02 Dil. 1 1 1 1 n the spike Spike Amount 1.00 1.00	-27 Spike Amount 1.00 1.00 3.00 and spike Matrix Result <0.0015 <0.0022	Ma Re <0.0 <0.0 <0.0 duplicate <u>Rec.</u> 9 95 0 94	trix sult 0159 0220 0201 0176 result. Ra Lin 76.3 77.3	Analy Prepa Rec. 98 97 95 93 ec. mit - 117 - 114	/zed By ared By 76. 77. 75. 73. <u>RPD</u> 2 2	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD Limit 20 20
v		LCS Resul 0.974 0.96 0.944 2.80 ke result LCSD Result 0.954 0.943 0.934	QC Pre	nalyzed: paratior g/Kg g/Kg g/Kg g/Kg based or Dil. 1	2007-02 2007-02 Dil. 1 1 1 1 n the spike Spike Amount 1.00	-27 Spike Amount 1.00 1.00 3.00 and spike Matrix Result <0.0015	Ma Re <0.0 <0.0 <0.0 <0.0 duplicate Rec. 9 95 0 94 1 93	trix sult 0159 0220 0201 0176 result. Ra Lin 76.3 77.3 75.4	Analy Prepa Rec. 98 97 95 93 ec. mit - 117	/zed By ared By 76. 77. 75. 73. RPD 2	: KB Rec. Limit 3 - 117 3 - 114 4 - 115 2 - 112 RPD Limit 20

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

Report Date: February 28 Reid #1	8, 2007				rder: 7022 eid #1	711		<u> </u>	Pag	ge Nun Edd		10 of 13 inty,NM
		LCS	LCS	SD			Spike	LC	S I	LCSD		Rec.
Surrogate		Result	t Res	ult U	Jnits 1	Dil.	Amount	\mathbf{Re}	c.	Rec.	l	Limit
Trifluorotoluene (TFT)		1.01	0.99		g/Kg	1	1.00	10		99		.5 - 113
4-Bromofluorobenzene (4-)	BFB)	0.925	0.9	13 m	g/Kg	1	1.00	92	2	91	68	.3 - 110
Laboratory Control Sp	ike (LCS	-1)										
QC Batch: 35086			Date An	alyzed:	2007-02	-27				Analy	zed B	y: JS
Prep Batch: 30448			QC Prep	aration:	2007-02	-27				Prepa	red B	y: JS
		LCS	5			Sp	ike	Matri	ix			Rec.
Param		Resu		Units	Dil.	-	ount	Resu		Rec.		Limit
Chloride		105	n	ng/Kg	1		00	<3.2	5	105	ę	0 - 110
Percent recovery is based	on the spil	ke result. H			the spike a	and spil	ke duplica	te res	ult.			
-		LCSD		****	Spike		trix		Rec.	-		RPD
Param		Result	Units	Dil.	Amount			ec.	Limit		PD	Limit
Chloride		105	mg/Kg	1	100	<3	3.25 10	05	90 - 11	.0	0	20
QC Batch: 35064	Spiked S		7533 Date An QC Prep	•	2007-02- 2007-02-					Analyz Prepar	-	
QC Batch: 35064 Prep Batch: 30431	Spiked S	MS	Date An QC Prep	paration:	2007-02-	-27 Spil		Matrix	:	Prepar	red By	7: SP Rec.
QC Batch: 35064 Prep Batch: 30431 Param	Spiked S	MS Resul	Date An QC Prep t L	paration: Jnits	2007-02- Dil.	-27 Spil Amor	unt	Result	: H	Prepar Rec.	red By	7: SP Rec. Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO	-	MS Resul 392	Date An QC Prep t U	Jnits g/Kg	2007-02- Dil. 1	-27 Spil Amo 250	unt 1	Result 232	F	Prepar	red By	7: SP Rec. Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO	-	MS Resul 392	Date An QC Prep t U	Jnits g/Kg	2007-02- Dil. 1	-27 Spil Amo 250	unt 1	Result 232	F	Prepar Rec.	red By	7: SP Rec. Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based	-	MS Resul 392 ce result. I MSD	Date An QC Prep t U RPD is b	Jnits g/Kg ased on	2007-02- Dil. 1 the spike a Spike	-27 Spil Amor 250 and spil Mate	unt D ke duplica rix	Result 232 ate res	H ult. Rec.	Prepar Rec. 64	red By	7: SP Rec. Limit .5 - 127 RPD
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based Param	-	MS Resul 392 ce result. I MSD Result	Date An QC Prep t U RPD is b Units	Units g/Kg ased on Dil.	Dil. 1 the spike a Spike Amount	-27 Spil Amou 250 and spil Matu Resu	unt D ke duplica rix ılt Rec	Result 232 ate rest	ult. Rec. Limit	Prepar Rec. 64 R	red By 47 RPD	7: SP Rec. Limit .5 - 127 RPD Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based Param DRO	on the spil	MS Resul 392 ce result. I MSD Result 401	Date An QC Prep t Um RPD is b Units mg/Kg	Jnits g/Kg ased on Dil. 1	2007-02- Dil. 1 the spike a Spike Amount 250	-27 Spil Amou 250 and spil Mat: Resu 23	unt D ke duplica rix ult Rec 2 68	Result 232 ate res c. 4		Prepar Rec. 64 R	red By	7: SP Rec. Limit .5 - 127 RPD
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based Param DRO	on the spil	MS Resul 392 ce result. I MSD Result 401	Date An QC Prep t Um RPD is b Units mg/Kg	Jnits g/Kg ased on Dil. 1	2007-02- Dil. 1 the spike a Spike Amount 250	-27 Spil Amoo 250 and spil Mat Ress 23: and spil	unt D ke duplica rix ult Rec 2 68 ke duplica	Result 232 ate res c. 5 4 ate res	ult. Rec. Limit 7.5 - 12 ult.	Prepar Rec. 64 R 27	red By 47 47 2	7: SP Rec. Limit .5 - 127 RPD Limit 20
-	on the spil	MS Result 392 ce result. I MSD Result 401 ce result. I	Date An QC Prep t Umits Units mg/Kg RPD is b	Jnits g/Kg ased on Dil. 1	2007-02- Dil. 1 the spike a Spike Amount 250	-27 Spil Amou 250 and spil Mat: Resu 23	unt D D rix ult Rec 2 68 ke duplica ke	Result 232 ate res c. 4	ult. Rec. Limit 7.5 - 12 ult. M	Prepar Rec. 64 R	app	7: SP Rec. Limit .5 - 127 RPD Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate	on the spik on the spik MS	MS Resul 392 ce result. I MSD Result 401 ce result. I MSD	Date An QC Prep t U RPD is b Units mg/Kg RPD is b	Units g/Kg ased on Dil. 1 ased on	2007-02- Dil. 1 the spike a Spike Amount 250 the spike a	-27 Spil Amoo 250 and spil Mat Ress 233 and spil Spil	unt D ke duplica rix ult Rec 2 68 ke duplica ke unt	Result 232 ate res 2. 4 ate res MS	H ult. Limit 7.5 - 12 ult. M R	Prepar Rec. 64 R 27 SD	ed By 47 2	r: SP Rec. Limit .5 - 127 RPD Limit 20 Rec. Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane	on the spil on the spil MS Result 167	MS Resul 392 ce result. I MSD Result 401 ce result. I MSD Result	Date An QC Prep t U RPD is b Units mg/Kg RPD is b U u mg	Units g/Kg ased on Dil. 1 ased on nits	2007-02- Dil. 1 the spike a Spike Amount 250 the spike a Dil.	-27 Spil Amou 250 and spil Mat Resu 233 and spil Spil Amo	unt D ke duplica rix ult Rec 2 68 ke duplica ke unt	Result 232 ate res c. 4 ate res MS Rec.	H ult. Limit 7.5 - 12 ult. M R	Prepar Rec. 64 R 27 SD .ec.	ed By 47 2	r: SP Rec. Limit .5 - 127 RPD Limit 20 Rec. Limit
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 35083	on the spil on the spil MS Result 167	MS Result 392 (e result. I MSD Result 401 (e result. I MSD Result 166 ample: 117	Date An QC Prep t U RPD is b Units mg/Kg RPD is b U u mg	Jnits g/Kg ased on Dil. 1 ased on nits g/Kg	2007-02- Dil. 1 the spike a Spike Amount 250 the spike a Dil.	-27 Spil Amou 250 and spil Matt Ress 232 and spil Spii Amo 15	unt D ke duplica rix ult Rec 2 68 ke duplica ke unt	Result 232 ate res c. 4 ate res MS Rec.	H ult. Rec. Limit 7.5 - 12 ult. M R 1	Prepar Rec. 64 R 27 SD .ec.	ed By	7: SP Rec. Limit 5 - 127 RPD Limit 20 Rec. Limit 5 - 164 : KB
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 35083 Prep Batch: 30441	on the spil on the spil MS Result 167	MS Result 392 ce result. I MSD Result 401 ce result. I MSD Result 166 ample: 117	Date An QC Prep t U m RPD is b Units mg/Kg RPD is b U mg 7535 Date Ana QC Prep	Jnits g/Kg ased on Dil. 1 ased on nits g/Kg alyzed: aration:	2007-02- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-02- 2007-02-	-27 Spil Amoo 250 and spil Matt Ress 232 and spil Spii Amo 15 27 27 27 27	unt D bke duplica rix ult Rec 2 68 ke duplica ke unt 0	Result 232 ate rest ate rest MS Rec. 111	H ult. Rec. Limit 7.5 - 12 ult. M R 1	Prepar Rec. 64 R 27 SD ec. 11 Analyz Prepar	ared By 47 47 2 62 ed By ed By	r: SP Rec. <u>Limit</u> <u>5 - 127</u> <u>RPD</u> <u>Limit</u> <u>20</u> Rec. <u>Limit</u> <u>5 - 164</u> : KB : KB : KB Rec.
QC Batch: 35064 Prep Batch: 30431 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 35083	on the spil on the spil MS Result 167	MS Result 392 ce result. I MSD Result 401 ce result. I MSD Result 166 ample: 117	Date An QC Prep t U RPD is b Units mg/Kg RPD is b U mg 7535 Date An QC Prep t U	Jnits g/Kg ased on Dil. 1 ased on nits g/Kg	2007-02- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-02-	-27 Spil Amoo 250 and spil Matt Ress 232 and spil Spii Amo 15 27 27 27	unt D ke duplica rix ult Rec 2 68 ke duplica ke unt 0	Result 232 ate rest ate rest MS Rec. 111	H ult. Rec. Limit 7.5 - 12 ult. M R 1	Prepar Rec. 64 R 27 (SD ec. 11 Analyz	ed By ed By	r: SP Rec. <u>Limit</u> <u>5 - 127</u> RPD <u>Limit</u> <u>20</u> Rec. <u>Limit</u> <u>5 - 164</u> : KB : KB

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

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Reid #1				Order: 7022 Reid #1				1	Page Number: 11 of 13 Eddy County,NM			
Param	MSD Result	Units	Dil.	Spike Amount	Mat Res		Rec.	Re Lim		RPD	RP Lin	
GRO	9.49	mg/Kg	1	10.0	<0.		95	40.7 -		8	19.	
Percent recovery is based on the s	pike result.		ased c	on the spike				result.				
	MS	S MS	SD			Spil	re	MS	MSD)	Rec.	
Surrogate	Resu			Units	Dil.	Amo		Rec.	Rec.		Limit	
Trifluorotoluene (TFT)	0.93	0 0.8	64	mg/Kg	1	1		93	86	34	4.9 - 1	
4-Bromofluorobenzene (4-BFB)	1.15	5 1.0	08	mg/Kg	1	1		115	108	58	8.5 - 1	
Matrix Spike (MS-1) Spiked	l Sample: 11	17535										
QC Batch: 35084		Date An	alvzed	: 2007-02	-27				Analy	zed B	v: K	
Prep Batch: 30441		QC Prep								ared By		
	MS				Spik	e	Ma	triv			Rec.	
Param	Resul		nits	Dil.	Amou		Res		Rec.		Limit	
Benzene	0.978		g/Kg	1	1.00			0159	98		9.6 - 1	
Toluene	1.02		g/Kg	1	1.00		<0.0		102		5.4 - 1	
				1	1 00		~0.0	0201	111		8 - 14	
	1.11		g/Kg	1	1.00)	<0.0	0201	111	4	10 - 14	
	1.11 3.32		g/Kg g/Kg	1	3.00		<0.0		111			
Xylene	3.32	e mg	g/Kg	1	3.00)	<0.0	0176				
Ethylbenzene Xylene Percent recovery is based on the s	3.32	e mg	g/Kg	1 on the spike	3.00) ike dup	<0.0	0176	111		5.3 - 14	
Xylene	3.32 pike result. MSD Result	2 mg RPD is b Units	g/Kg	1	3.00 and spi) ike dup rix	<0.0	0176 result.	111 ec.		5.3 - 1 RP	
Xylene Percent recovery is based on the s	3.32 pike result. MSD Result 0.933	RPD is t Units mg/Kg	g/Kg based o	1 on the spike Spike	3.00 and spi Mat) ike dup trix ult	<0.0 licate	0176 result. Re	111 ec.	45	5.3 - 14 RP Lim	
Xylene Percent recovery is based on the s Param Benzene Toluene	3.32 pike result. MSD Result 0.933	2 mg RPD is b Units	g/Kg pased c Dil.	1 on the spike Spike Amount	3.00 and spi Mat Res) ike dup trix ult 0159	<0.0 licate Rec.	0176 result. Re Lin	111 ec. nit • 141	45 RPD	5.3 - 1 RP Lim 20	
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene	3.32 pike result. MSD Result 0.933 0.979 1.06	RPD is b Units mg/Kg mg/Kg mg/Kg	g/Kg pased c Dil. 1	1 m the spike Spike Amount 1.00 1.00 1.00	3.00 and spi Mat Res <0.00 <0.00 <0.00) ike dup trix ult 0159 0220 0221	<0.0 licate <u>Rec.</u> 93 98 106	0176 result. Re Lin 39.6 - 45.4 - 48 -	111 ec. 141 138 141	45 RPD 5	5.3 - 1 RP Lim 20 20 20	
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg	g/Kg pased o Dil. 1 1 1 1 1	1 on the spike Spike Amount 1.00 1.00 1.00 3.00	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00) ike dup ult 0159 0220 0201 0176	<0.0 licate <u>Rec.</u> 93 98 106 106	0176 result. Re Lin 39.6 - 45.4 - 48 - 45.3 -	111 ec. 141 138 141	45 RPD 5 4	5.3 - 1 RP Lim 20 20 20	
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result.	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t	Dil. Dil. 1 1 1 2 based o	1 on the spike Spike Amount 1.00 1.00 1.00 3.00	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00) ike dup ult 0159 0220 0201 0176 ike dup	<0.0 licate <u>Rec.</u> 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 48 - 45.3 - result.	111 ec. • 141 • 138 141 • 142	45 RPD 5 4 5 5	8.3 - 1 RP Lim 20 20 20 20	
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS	based of Dil. 1 1 1 1 5 5 5 5 5	1 Spike Amount 1.00 1.00 1.00 3.00 on the spike	3.00 and spi Res <0.00 <0.00 <0.00 <0.00 and spi) ike dup orix ult 0159 0220 0201 0176 ike dup Spił	<0.0 licate 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 45.4 - 48 - 45.3 - result. MS	111 ec. 141 138 141 142 MSD	45 RPD 5 4 5 5	8.3 - 14 RP Lim 20 20 20 20 20 8 Rec.	
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t Mg It Res	based of Dil. 1 1 1 based of SD Sult	1 Spike Amount 1.00 1.00 3.00 on the spike Units	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00 and spi Dil.) ike dup crix ult 0159 0220 0220 0220 0220 0220 0220 0220 02	<0.0 licate 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 45.4 - 48 - 45.3 - result. MS Rec.	111 cc. 141 138 141 142 MSD Rec.	45 RPD 5 4 5 5	5.3 - 14 RP Lim 20 20 20 Rec. Limit	
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT)	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t Mg It Res	based of Dil. 1 1 1 based of SD Sult	1 Spike Amount 1.00 1.00 1.00 3.00 on the spike	3.00 and spi Res <0.00 <0.00 <0.00 <0.00 and spi) ike dup orix ult 0159 0220 0201 0176 ike dup Spił	<0.0 licate 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 45.4 - 48 - 45.3 - result. MS	111 ec. 141 138 141 142 MSD	45 RPD 5 4 5 5	5.3 - 1 RF Lir 2 2 2 2 2 2 8 Rec. Limit 1.5 - 1	
Xylene Percent recovery is based on the s Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 35086	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS It Res 5 1.1 2 1.1	pased of Dil. 1 1 1 1 0 assed of 5D 50 50 50 50 50 50 50 50 50 50 50 50 50	1 on the spike Spike Amount 1.00 1.00 1.00 0 1.00 3.00 on the spike Units mg/Kg mg/Kg 1.2007-02	3.00 and spi Res <0.00 <0.00 <0.00 <0.00 and spi Dil. 1 1) ike dup crix ult 0159 0220 0220 0220 0220 0220 0220 0220 02	<0.0 licate 93 98 106 106 licate	0176 result. Re Lin 39.6 - 45.4 - 45.4 - 48 - 45.3 - result. MS Rec.	111 c. 141 138 141 142 MSD Rec. 102 108 Anal	45 RPD 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	5.3 - 1 RP Lim 20 20 20 20 20 20 20 20 20 20	
Xylene Percent recovery is based on the s Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu 1.05 1.12	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS It Res 5 1.0 2 1.0 17544 Date Ar QC Prej	pased of Dil. 1 1 1 1 0 assed of 5D 50 50 50 50 50 50 50 50 50 50 50 50 50	1 on the spike Spike Amount 1.00 1.00 1.00 0 1.00 3.00 on the spike Units mg/Kg mg/Kg 1.2007-02	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00 and spi Dil. 1 1 2-27 2-27) ike dup 0159 0220 0201 0176 ike dup Spił Amot 1 1	<0.0 licate 93 98 106 106 licate ce int	0176 result. Re Lin 39.6 - 45.4 - 45.3 - result. MS Rec. 105 112	111 c. 141 138 141 142 MSD Rec. 102 108 Anal	45 RPD 5 4 5 5 5 5 52	5.3 - 1 RP Lim 20 20 20 20 20 20 20 20 20 20	
Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 35086 Prep Batch: 30448	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu 1.05 1.12	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS It Res 5 1.1 2 1.1 17544 Date Ar QC Prej	y/Kg pased o Dil. 1 1 1 1 1 0 assed o 5D 50 50 50 50 50 50 50 50 50 50 50 50 50	1 on the spike Spike Amount 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 3.00 on the spike Units mg/Kg mg/Kg d: 2007-02 on: 2007-02	3.00 and spi Res <0.00 <0.00 <0.00 <0.00 and spi Dil. 1 1 2-27 2-27 2-27) ike dup ult 0159 0220 0201 0176 ike dup Spil Amou 1 1	<0.0 licate 93 98 106 106 licate ce int	0176 result. Re Lin 39.6 - 45.4 - 45.3 - result. MS Rec. 105 112	111 c. 141 138 141 142 MSD Rec. 102 108 Anal Prep	45 RPD 5 4 5 5 5 5 5 1 52 1 1 52 1 1 52 1 53 1 52 5 5 5 5 5 5 5 5 5 5 5 5 5	RP Lim 20 20 20 20 Rec. Limit 1.5 - 11 2.2 - 11 3y: J By: J By: J Rec.	
Xylene Percent recovery is based on the s Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 35086	3.32 pike result. MSD Result 0.933 0.979 1.06 3.17 pike result. MS Resu 1.05 1.12	RPD is t Units mg/Kg mg/Kg mg/Kg mg/Kg RPD is t MS It Res 5 1.1 2 1.1 17544 Date Ar QC Prep	pased of Dil. 1 1 1 1 0 assed of 5D 50 50 50 50 50 50 50 50 50 50 50 50 50	1 on the spike Spike Amount 1.00 1.00 1.00 0 1.00 3.00 on the spike Units mg/Kg mg/Kg 1.2007-02	3.00 and spi Mat Res <0.00 <0.00 <0.00 <0.00 and spi Dil. 1 1 2-27 2-27) ike dup ult 0159 0220 0201 0176 ike dup Spil Amou 1 1	<0.0 licate 93 98 106 106 licate mt Ma Re	0176 result. Re Lin 39.6 - 45.4 - 45.3 - result. MS Rec. 105 112	111 c. 141 138 141 142 MSD Rec. 102 108 Anal	45 RPD 5 4 5 5 5 5 5 5 5 1 52 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5	S.3 - 12 RP Lim 20 21 32 32 32 32 32 33	

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¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Dat Reid #1	e: February 28,	2007			-	rder: 7022 teid #1	711	<u>.</u>	Page Number: 12 of 13 Eddy County,NM			
matrix spike	es continued											
			MSD			Spike	Matrix		Rec.		RPD	
Param			Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
			MSD			Spike	Matrix		Rec.		RPD	
Param			Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
Chloride		2	1770	mg/Kg	200	20000	<650	9	84.6 - 117	11	20	
Percent reco	overy is based or	n the spi	ke result					plicate				
Standard	(ICV-1)											
QC Batch:	. ,			Date Ana	alyzed:	2007-02-2	27		An	alyzed B	y: SP	
				ICVs	IC	Ve	ICVs		Percent			
				True	Foi		Percent		Recovery		Date	
Param	Flag	Units		Conc.	Co		Recovery		Limits		alyzed	
DRO	1 1008	mg/Kg	<u>r</u>	250	22		88		85 - 115		7-02-2	
Standard						2007 00 0					0.0	
QC Batch:	35064			Date Ana	alyzed:	2007-02-2	27		An	alyzed B	y: SP	
				CCVs	CC		\mathbf{CCVs}		Percent			
n	-			True	For		Percent		Recovery		Date	
Param	Flag	Units		Conc.		nc.	Recovery		Limits		alyzed	
DRO		mg/Kg	5	250	22	28	91		85 - 115	200	7-02-2	
Standard	(ICV-1)											
QC Batch:	35083			Date Ana	lyzed:	2007-02-2	7		Ana	lyzed By	: KB	
				ICVs	IC	Vs	ICVs		Percent			
				True	Γοι	ind	Percent		Recovery		Date	
Param	Flag	Units		Conc.	Co	nc.	Recovery		Limits	Аг	alyzed	
GRO		mg/K	5	1.00	1.0	00	100		85 - 115	200	7-02-2	
Standard	(CCV-1)											
QC Batch:	. ,			Date Ana	dyzed:	2007-02-2	7		Ana	lyzed By	·: KB	
				CCVs	CC	ZVs	CCVs		Percent			
				True	Foi		Percent		Recovery		Date	
Param	Flag	Units		Conc.	Co		Recovery		Limits		alyzed	
GRO		mg/Kį	Ş	1.00	0.9	913	91		85 - 115		7-02-27	
Standard	(ICV-1)											
	. ,			D			-				•••=	
QC Batch:	35084			Date Ana	uyzed:	2007-02-2	1		Ana	lyzed By	: KB	

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²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: Fe Reid #1	bruary 28, 20	007	Wo	rk Order: 7022 Reid #1	Page Number: 13 of 13 Eddy County,NM		
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0972	97	85 - 115	2007-02-27
Toluene		mg/Kg	0.100	0.0962	96	85 - 115	2007-02-27
Ethylbenzene		mg/Kg	0.100	0.0966	97	85 - 115	2007-02-27
Xylene		mg/Kg	0.300	0.286	95	85 - 115	2007-02-27

Standard (CCV-1)

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QC Batch: 35084			Date Analyze	ed: 2007-02-2	Analyzed By: KB		
			CCVs	CCVs	\mathbf{CCVs}	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0962	96	85 - 115	2007-02-27
Toluene		mg/Kg	0.100	0.0947	95	85 - 115	2007-02-27
Ethylbenzene		mg/Kg	0.100	0.0926	93	85 - 115	2007-02-27
Xylene		mg/Kg	0.300	0.275	92	85 - 115	2007-02-27

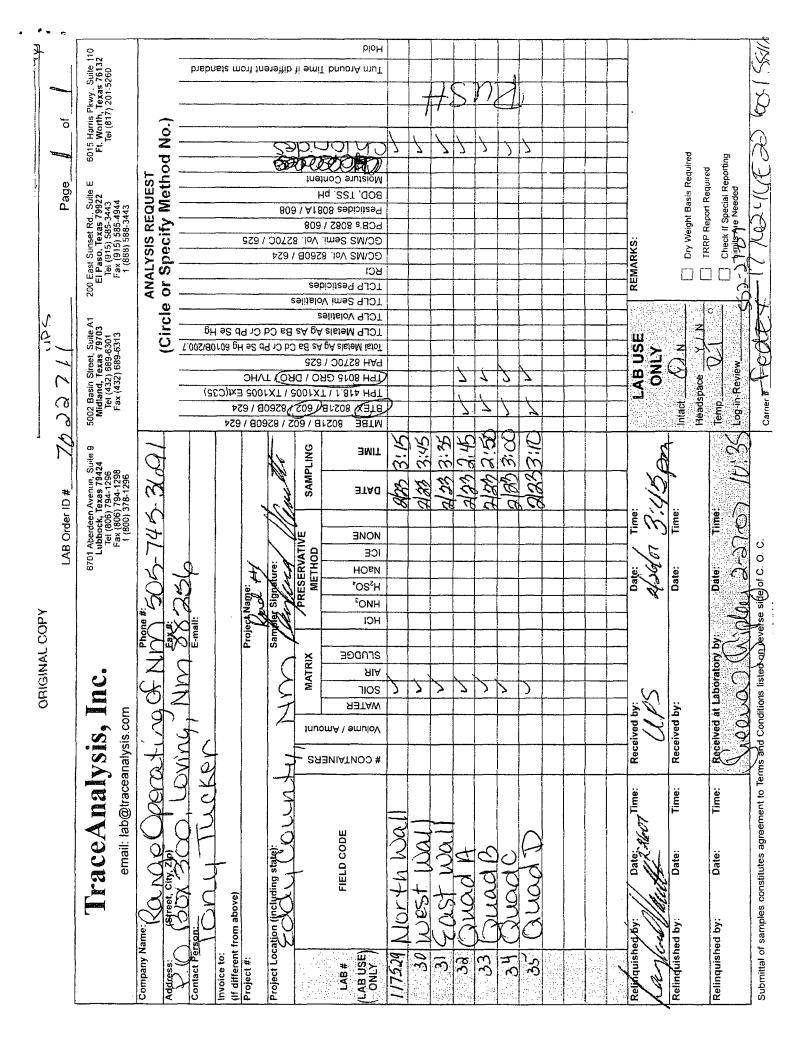
Standard (ICV-1)

QC Batch:	35086		Date Ana	lyzed: 2007-0	Analyzed By: JS		
			ICVs	ICVs	\mathbf{ICVs}	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	98.3	98	85 - 115	2007-02-27
		0/ - 0					

Standard (CCV-1)

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QC Batch:	35086		Date Ana	lyzed: 2007-02	2-27	Analyzed By: JS		
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Chloride		mg/Kg	100	102	102	85 - 115	2007-02-27	



Summary Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: March 13, 2007

Work Order: 7031203

Project Location: Eddy County,NM Project Name: Reid #1

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
118676	North Wall	soil	2007-03-09	13:00	2007-03-10
118677	East Wall	soil	2007-03-09	13 :10	2007-03-10
118678	Floor Comp	soil	2007-03-09	13:25	2007-03-10

Sample: 118676 - North Wall

Param	Flag	Result	Units	RL
Chloride		423	mg/Kg	5.00

Sample: 118677 - East Wall

Param	Flag	\mathbf{Result}	Units	RL
Chloride		145	mg/Kg	5.00

Sample: 118678 - Floor Comp

Param	Flag	Result	Units	RL
Chloride		226	mg/Kg	5.00

6701 Aberdeen Avenue, Suite 9 200 East-Sunset Road, Suite E 5002 Basin Street, Suite A1 5015 Harris Parkway, Suite 119 Ft. Worth, Texas 76132

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

800+378+1296 888+588+3443

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FAX 915+585+4944 FAX 432+589+6313

Analytical and Quality Control Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: March 13, 2007

Work Order: 7031203

Project Location: Eddy County,NM Project Name: Reid #1 **Project Number:** Reid #1

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
118676	North Wall	soil	2007-03-09	13:00	2007-03-10
118677	East Wall	soil	2007-03-09	13:10	2007-03-10
118678	Floor Comp	soil	2007-03-09	13:25	2007-03-10

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

Dr. Blair Leftwich, Director

Standard Flags

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

Report Date: March 13, 2007	Work Order: 7031203
Reid #1	Reid #1

Analytical Report

Sample: 118676 - North Wall

Analysis: QC Batch:	Chloride (Titration) 35496	Analytical Me Date Analyzed		Prep Method: Analyzed By:	,
Prep Batch:		Sample Prepar		Prepared By:	
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		423	mg/Kg	10	5.00

Sample: 118677 - East Wall

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 35496 30788	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-03-12 2007-03-12	Prep Method: Analyzed By: Prepared By:	ŚМ
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	* Mg		mg/Kg	10	5.00

Sample: 118678 - Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35496	Date Analyzed:	2007-03-12	Analyzed By:	\mathbf{SM}
Prep Batch:	30788	Sample Preparation:	2007-03-12	Prepared By:	\mathbf{SM}
		\mathbf{RL}			
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		226 I	ng/Kg	4	5.00

Method Blank (1) QC Batch: 35496

QC Batch:	35496	Date Analyzed:	2007-03-12	Analyzed By:	SM
Prep Batch:	30788	QC Preparation:	2007-03-12	Prepared By:	\mathbf{SM}

		MDL		
Parameter	Flag	Result	\mathbf{Units}	RL
Chloride		<3.25	mg/Kg	5

Laboratory Control Spike (LCS-1)

QC Batch:	35496	Date Analyzed:	2007-03-12	Analyzed By:	\mathbf{SM}
Prep Batch:	30788	QC Preparation:	2007-03-12	Prepared By:	\mathbf{SM}

Report Date: March 13, 2007 Reid #1		Work Order: 7031203 Reid #1					Page Number: 3 of 3 Eddy County,NM			
n		LCS			Spike		trix		Rec.	
Param		lesult	Units	Dil.	Amount	_		lec.	Limit	
Chloride			mg/Kg	1	100	-		.02	90 - 110	
Percent recovery is based	l on the spike resu	lt. RPD is	based on	the spike a	nd spike du	plicate 1	result.			
	LCSE)		Spike	Matrix		Rec.		RPD	
Param	Result	t Units	Dil.	Amount	Result	Rec.	Limit	RPD	\mathbf{Limit}	
Chloride	101	mg/Ka	g 1	100	<3.25	101	90 - 110	1	20	
Percent recovery is based	l on the spike resul	lt. RPD is	based on	the spike a	nd spike du	plicate r	esult.			
Matrix Spike (MS-1)	Spiked Sample:	118692								
QC Batch: 35496		Date A	nalyzed:	2007-03-	12		An	alyzed B	y: SM	
Prep Batch: 30788		QC Preparation: 2007-03-12			Prepared By: SM					
		·	-							
		MS			Spike	Mat	riv		Rec.	
Param			Units	Dil.	Amount	Res		с.	Limit	
Chloride			ng/Kg	10	1000	1131			4.6 - 117	
Percent recovery is based										
D	MSD	T	D:1	Spike	Matrix	D	Rec.	חחח	RPD	
Param	Result	\mathbf{Units}	Dil.	\mathbf{Amount}	\mathbf{Result}	Rec.	\mathbf{Limit}	RPD	Limit	
Thiorida	2 1010	ma/Va	10	1000		0	846 117	0	20	
······	2 1210	mg/Kg		1000	1131.92	8	84.6 - 117	0	20	
······	1210				1131.92			0	20	
Percent recovery is based	1210				1131.92			0	20	
Chloride Percent recovery is based Standard (ICV-1)	1210				1131.92			0	20	
Percent recovery is based Standard (ICV-1)	1210	lt. RPD is	based on	the spike a	1131.92 nd spike du		esult.			
Percent recovery is based Standard (ICV-1)	1210	lt. RPD is			1131.92 nd spike du		esult.	0 alyzed B		
Percent recovery is based Standard (ICV-1)	1210	lt. RPD is	based on nalyzed:	the spike a	1131.92 nd spike du		esult.			
Percent recovery is based Standard (ICV-1) QC Batch: 35496	l on the spike resul	lt. RPD is Date Ar	based on nalyzed: IC	the spike a 2007-03-12	1131.92 nd spike du	plicate r	esult. An Percent Recovery	alyzed B	y: SM Date	
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag	l on the spike resul	lt. RPD is Date An ICVs True Conc.	based on nalyzed: Fo Co	the spike a 2007-03-1: CVs bund onc.	1131.92 nd spike du ICVs Percent Recovery	plicate r	esult. An Percent Recovery Limits	alyzed B	y: SM Date nalyzed	
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag	l on the spike resul	lt. RPD is Date Ar ICVs True	based on nalyzed: Fo Co	the spike a 2007-03-12 CVs pund	1131.92 nd spike du Percent	plicate r	esult. An Percent Recovery	alyzed B	y: SM Date	
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag	l on the spike resul	lt. RPD is Date An ICVs True Conc.	based on nalyzed: Fo Co	the spike a 2007-03-1: CVs bund onc.	1131.92 nd spike du ICVs Percent Recovery	plicate r	esult. An Percent Recovery Limits	alyzed B	y: SM Date nalyzed	
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride	l on the spike resul	lt. RPD is Date An ICVs True Conc.	based on nalyzed: Fo Co	the spike a 2007-03-1: CVs bund onc.	1131.92 nd spike du ICVs Percent Recovery	plicate r	esult. An Percent Recovery Limits	alyzed B	y: SM Date nalyzed	
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride Standard (CCV-1)	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100	based on nalyzed: Fo Ca 1	the spike a 2007-03-12 CVs ound onc. 02	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115	alyzed B A 20	y: SM Date nalyzed 07-03-12	
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride Standard (CCV-1)	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100	based on nalyzed: Fo Ca 1	the spike a 2007-03-1: CVs bund onc.	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115	alyzed B	y: SM Date nalyzed 07-03-12	
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride Standard (CCV-1)	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100 Date An	based on nalyzed: IC Fo Ca 1 nalyzed:	the spike a 2007-03-12 CVs ound onc. 102 2007-03-12	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115 An	alyzed B A 20	y: SM Date nalyzed 07-03-12	
Percent recovery is based Standard (ICV-1) QC Batch: 35496	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100 Date An CCVs	based on nalyzed: IC Fo Cd 1 nalyzed: C	the spike a 2007-03-12 CVs ound onc. 02	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115 An Percent	alyzed B A 20	y: SM Date nalyzed 07-03-12	
Percent recovery is based Standard (ICV-1) QC Batch: 35496 Param Flag Chloride Standard (CCV-1)	l on the spike resul	lt. RPD is Date An ICVs True Conc. 100 Date An	based on nalyzed: IC Fo Ca 1 nalyzed: C' Fo	the spike a 2007-03-12 CVs ound onc. 102 2007-03-12 CVs	1131.92 nd spike du ICVs Percent Recovery 102	plicate r	esult. An Percent Recovery Limits 85 - 115 An	alyzed B A 20 alyzed B	y: SM Date nalyzed 07-03-12 y: SM	

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¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control. ²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

