

Summary Report

Dorsey Rogers
Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: June 6, 2007

Work Order: 7060412



Project Location: Eddy County NM
Project Name: Full Tank 33-4

30-015 - 35379

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126197	NW-Comp	soil	2007-05-10	11:00	2007-06-02
126198	NE-Comp	soil	2007-05-10	11:30	2007-06-02
126199	SW-Comp	soil	2007-05-10	11:45	2007-06-02
126200	SE-Comp	soil	2007-05-10	12:00	2007-06-02
126201	Center	soil	2007-05-10	12:30	2007-06-02

Sample: 126197 - NW-Comp

Param	Flag	Result	Units	RL
Chloride		57.0	mg/Kg	5.00

Sample: 126198 - NE-Comp

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	5.00

Sample: 126199 - SW-Comp

Param	Flag	Result	Units	RL
Chloride		61.6	mg/Kg	5.00

Sample: 126200 - SE-Comp

Param	Flag	Result	Units	RL
Chloride		55.4	mg/Kg	5.00

Sample: 126201 - Center

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.

Param	Flag	Result	Units	RL
Chloride		156	mg/Kg	5.00



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Dorsey Rogers
Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: June 6, 2007

Work Order: 7060412



Project Location: Eddy County NM
Project Name: Full Tank 33-4
Project Number: Full Tank 33-4

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126197	NW-Comp	soil	2007-05-10	11:00	2007-06-02
126198	NE-Comp	soil	2007-05-10	11:30	2007-06-02
126199	SW-Comp	soil	2007-05-10	11:45	2007-06-02
126200	SE-Comp	soil	2007-05-10	12:00	2007-06-02
126201	Center	soil	2007-05-10	12:30	2007-06-02

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

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Full Tank 33-4 were received by TraceAnalysis, Inc. on 2007-06-02 and assigned to work order 7060412. Samples for work order 7060412 were received intact at a temperature of 22.0 deg C.

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

Test	Method
Chloride (Titration)	SM 4500-Cl B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7060412 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 126197 - NW-Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37864	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32796	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		57.0	mg/Kg	4	5.00

Sample: 126198 - NE-Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37864	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32796	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<20.0	mg/Kg	4	5.00

Sample: 126199 - SW-Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37864	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32796	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		61.6	mg/Kg	8	5.00

Sample: 126200 - SE-Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37864	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32796	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		55.4	mg/Kg	4	5.00

Sample: 126201 - Center

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37864	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32796	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		156	mg/Kg	4	5.00

Method Blank (1) QC Batch: 37864

QC Batch: 37864 Date Analyzed: 2007-06-06 Analyzed By: JS
Prep Batch: 32796 QC Preparation: 2007-06-05 Prepared By: JS

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

Laboratory Control Spike (LCS-1)

QC Batch: 37864 Date Analyzed: 2007-06-06 Analyzed By: JS
Prep Batch: 32796 QC Preparation: 2007-06-05 Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	104	mg/Kg	1	100	<3.25	104	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<3.25	104	90 - 110	1	20

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

Matrix Spike (MS-1) Spiked Sample: 126201

QC Batch: 37864 Date Analyzed: 2007-06-06 Analyzed By: JS
Prep Batch: 32796 QC Preparation: 2007-06-05 Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 356	mg/Kg	4	400	155.534	50	84.6 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	² 349	mg/Kg	4	400	155.534	48	84.6 - 117	2	20

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.

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

Standard (ICV-1)

QC Batch: 37864

Date Analyzed: 2007-06-06

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2007-06-06

Standard (CCV-1)

QC Batch: 37864

Date Analyzed: 2007-06-06

Analyzed By: JS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-06-06

TraceAnalysis, Inc.

email: lab@traceanalysis.com

LAB Order ID #

7060412

Page

(of 1

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: Amaru Phone #: _____
Address: (Street, City, Zip) 207 Mesa Carlsbad, NM 88220 Fax #: _____
Contact Person: Dorsey Rogers E-mail: Dorsey + Shelly
Invoice to: _____
(If different from above)
Project #: _____ Project Name: Fuel Tank 33-4
Project Location (including state): Eddy County, NM Sampler Signature: Shelly Tucker

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MTBE 8021B / 602	BTEX 8021B / 602	TPH 418.1 / TX1005	TPH 8015 GRO / D / 602	PAH 8270C / 625	Total Metals Ag As Ba Cd	TCLP Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 602	GC/MS Semi. Vol. 8	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE																				TIME	
126197	NW Comp	1		✓								05/007	1100																						
198	NE Comp	1		✓								05/007	1130																						
199	SW Comp	1		✓								05/007	1145																						
200	SE Comp	1		✓								05/007	1200																						
201	Center	1		✓								05/007	1230																						
													</																						

Relinquished by: Shelly Tucker Date: 6-1-07 Time: 700p
Received by: [Signature] Date: 6-1-07 Time: 7pm
Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____
Relinquished by: _____ Date: _____ Time: _____
Received at Laboratory by: [Signature] Date: 6/2/07 Time: 10:20

LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp 22
Log-in-Review BP

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Walkin