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Analytical and Quality Control Report

Dorsey Rogers
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207 S Mesa
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Report Date: June 19, 2007

Work Order: 7061826



Project Location: 524, T255, R26E, Eddy County, NM
Project Name: API 30-015-33683
Project Number: Liberty 24 Fed Com. #2

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
127835	Inside leg South 10'	water	2007-06-18	08:00	2007-06-18
127836	Inside leg North 10'	water	2007-06-18	08:15	2007-06-18
127837	Outside leg South 12'	water	2007-06-18	08:25	2007-06-18
127838	Outside leg North 8'	water	2007-06-18	08:30	2007-06-18
127839	Outside leg West 12'	water	2007-06-18	08:40	2007-06-18
127840	Background 0-6	water	2007-06-18	08:50	2007-06-18

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 API 30-015-33683 were received by TraceAnalysis, Inc. on 2007-06-18 and assigned to work order 7061826. Samples for work order 7061826 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 7061826 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: 127835 - Inside leg South 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38306	Date Analyzed:	2007-06-19	Analyzed By:	JS
Prep Batch:	33166	Sample Preparation:	2007-06-18	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		343	mg/L	20	5.00

Sample: 127836 - Inside leg North 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38306	Date Analyzed:	2007-06-19	Analyzed By:	JS
Prep Batch:	33166	Sample Preparation:	2007-06-18	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		516	mg/L	20	5.00

Sample: 127837 - Outside leg South 12'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38306	Date Analyzed:	2007-06-19	Analyzed By:	JS
Prep Batch:	33166	Sample Preparation:	2007-06-18	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		212	mg/L	20	5.00

Sample: 127838 - Outside leg North 8'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38306	Date Analyzed:	2007-06-19	Analyzed By:	JS
Prep Batch:	33166	Sample Preparation:	2007-06-18	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		154	mg/L	20	5.00

Sample: 127839 - Outside leg West 12'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38306	Date Analyzed:	2007-06-19	Analyzed By:	JS
Prep Batch:	33166	Sample Preparation:	2007-06-18	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		497	mg/L	20	5.00

Sample: 127840 - Background 0-6

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 38306 Date Analyzed: 2007-06-19 Analyzed By: JS
 Prep Batch: 33166 Sample Preparation: 2007-06-18 Prepared By: JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		196	mg/L	20	5.00

Method Blank (1) QC Batch: 38306

QC Batch: 38306 Date Analyzed: 2007-06-19 Analyzed By: JS
 Prep Batch: 33166 QC Preparation: 2007-06-18 Prepared By: JS

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

Laboratory Control Spike (LCS-1)

QC Batch: 38306 Date Analyzed: 2007-06-19 Analyzed By: JS
 Prep Batch: 33166 QC Preparation: 2007-06-18 Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	94.7	mg/L	1	100	<3.25	95	85 - 115

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	97.4	mg/L	1	100	<3.25	97	85 - 115	3	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: 127840

QC Batch: 38306 Date Analyzed: 2007-06-19 Analyzed By: JS
 Prep Batch: 33166 QC Preparation: 2007-06-18 Prepared By: JS

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 435	mg/L	20	2000	196	12	70 - 130

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	² 370	mg/L	20	2000	196	9	70 - 130	16	20

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

Standard (ICV-1)

QC Batch: 38306

Date Analyzed: 2007-06-19

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	100	99.1	99	85 - 115	2007-06-19

Standard (CCV-1)

QC Batch: 38306

Date Analyzed: 2007-06-19

Analyzed By: JS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	100	101	101	85 - 115	2007-06-19

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.

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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 7061826

ANALYSIS REQUEST (Circle or Specify Method No.)

Company Name: Phoenix Environmental Phone #: 505-391-9685
Address: (Street, City, Zip) PO Box 1856 Fax #: 505-391-9687
Contact Person: Ray Garza E-mail: EA.Hodge@unaco.net
Invoice to: (if different from above) Cimarex - Dorsey Rogers
Project #: Liberty 24 Fed Com # 2 Project Name: API # 30-015-33683
Project Location (including state): S24, T25S, R26E Eddy County NM Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
12835	1. inside leg South 10'	1	4oz	X							X		6/18/07	8:00am
836	2. inside leg North 10'	1		X							X			8:15am
837	3. outside leg South 12'	1		X							X			8:25am
838	4. outside leg North 8'	1		X							X			8:30am
839	5. outside leg West 12'	1		X							X			8:40am
840	6. Background 0-6"	1		X							X			8:50am

MTBE 8021B / 602 / 8260B / 624	BTX 8021B / 602 / 8260B / 624	TPH 418 1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/2007	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C / 625	PCBs 8082 / 608	Pesticides 8081A / 608	BOD TSS pH	Moisture Content	Chlorides	Turn Around Time if different from standard	Hold
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Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
Relinquished by: _____ Date: _____ Time: _____ Received by: Brenda Ward Date: 6/18/07 Time: 12:34
Relinquished by: _____ Date: _____ Time: _____ Received at Laboratory by: [Signature] Date: 6/18/07 Time: 12:34

LAB USE ONLY

Intact ☒ Y / ☐ N
Headspace ☐ Y / ☒ N
Temp 18°C
Log-in-Review 18

REMARKS:

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

24hr
TAT