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Analytical and Quality Control Report

Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: February 6, 2007

Work Order: 7020501



Project Location: 13-T22SR22E Eddy County, NM
Project Name: Wagon Wheel 13 ~~at~~ Fed #2
Project Number: Wagon Wheel 13 ~~at~~ Fed #2

30-015-33483

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
115467	Bkg East	soil	2007-02-02	10:00	2007-02-03
115468	Bkg North	soil	2007-02-02	10:10	2007-02-03
115469	Bkg West	soil	2007-02-02	10:20	2007-02-03
115470	Bkg South	soil	2007-02-02	10:30	2007-02-03

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.

Analytical Report

Sample: 115467 - Bkg East

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	Sample Preparation:	2007-02-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		16.8	mg/Kg	2	5.00

Sample: 115468 - Bkg North

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	Sample Preparation:	2007-02-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<10.0	mg/Kg	2	5.00

Sample: 115469 - Bkg West

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	Sample Preparation:	2007-02-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		16.4	mg/Kg	2	5.00

Sample: 115470 - Bkg South

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	Sample Preparation:	2007-02-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<10.0	mg/Kg	2	5.00

Method Blank (1) QC Batch: 34338

QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	QC Preparation:	2007-02-05	Prepared By:	SM

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

Laboratory Control Spike (LCS-1)

QC Batch: 34338
Prep Batch: 29798

Date Analyzed: 2007-02-06
QC Preparation: 2007-02-05

Analyzed By: SM
Prepared By: SM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	93.2	mg/Kg	1	100	<3.25	93	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	94.9	mg/Kg	1	100	<3.25	95	90 - 110	2	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: 115470

QC Batch: 34338
Prep Batch: 29798

Date Analyzed: 2007-02-06
QC Preparation: 2007-02-05

Analyzed By: SM
Prepared By: SM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	152	mg/Kg	2	200	<6.50	76	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	154	mg/Kg	2	200	<6.50	77	84.6 - 117	1	20

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

Standard (ICV-1)

QC Batch: 34338

Date Analyzed: 2007-02-06

Analyzed By: SM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.9	99	85 - 115	2007-02-06

Standard (CCV-1)

QC Batch: 34338

Date Analyzed: 2007-02-06

Analyzed By: SM

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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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	2007-02-06

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ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE	8021B / 602 / 8260B / 624
BTEX	8021B / 602 / 8260B / 624
TPH	418.1 / TX1005 / TX1005 Ex(C35)
TPH	8015 GRO / DRO / TVHC
PAH	8270C / 625
Total Metals	Ag As Ba Cd Cr Pb Se Hg 6010B/200.7
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
PCB's	8082 / 608
Pesticides	8081A / 608
BOD, TSS, pH	
Moisture Content	

Turn Around Time if different from standard

<p>LAB USE ONLY</p> <p>Intact <u>0</u> Y / N</p> <p>Headspace <u>Y</u> / N</p> <p>Temp <u>40C</u></p> <p>Log-in-Review <u>RS</u></p>		<p>REMARKS:</p> <p><input type="checkbox"/> Dry Weight Basis Required</p> <p><input type="checkbox"/> TRRP Report Required</p> <p><input type="checkbox"/> Check If Special Reporting Limits Are Needed</p>
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Carrier # Carryin

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