Summary Report

Shelly Tucker
Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: June 6, 2007

Work Order: 7060410

Project Location: Eddy County NM 30-015-35479
Project Name: Crow Flats 7-4

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126186	NW-Floor-C	soil	2007-05-03	10:10	2007-06-02
126187	SW-Floor-C	soil	2007-05-03	10:20	2007-06-02
126188	NE-Floor-C	soil	2007-05-03	10:40	2007-06-02
126189	SE-Floor-C	soil	2007-05-03	10:50	2007-06-02
126190	Center Floor-C	soil	2007-05-03	11:00	2007-06-02
126191	Background-C	soil	2007-05-03	11:30	2007-06-02

Sample: 126186 - NW-Floor-C

Param	Flag	Result	Units	RL
Chloride		**84.1**	mg/Kg	5.00

Sample: 126187 - SW-Floor-C

Param	Flag	Result	Units	RL
Chloride		**154**	mg/Kg	5.00

Sample: 126188 - NE-Floor-C

Param	Flag	Result	Units	RL
Chloride		**63.3**	mg/Kg	5.00

Sample: 126189 - SE-Floor-C

Param	Flag	Result	Units	RL
Chloride		**68.4**	mg/Kg	5.00

Sample: 126190 - Center Floor-C

Param	Flag	Result	Units	RL
Chloride		**145**	mg/Kg	5.00

Sample: 126191 - Background-C

Param	Flag	Result	Units	RL
Chloride		**40.7**	mg/Kg	5.00

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Dorsey Rogers
Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: June 6, 2007

Work Order: 7060410

Project Location: Eddy County NM
Project Name: Crow Flats 7-4
Project Number: Crow Flats 7-4

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
126186	NW-Floor-C	soil	2007-05-03	10:10	2007-06-02
126187	SW-Floor-C	soil	2007-05-03	10:20	2007-06-02
126188	NE-Floor-C	soil	2007-05-03	10:40	2007-06-02
126189	SE-Floor-C	soil	2007-05-03	10:50	2007-06-02
126190	Center Floor-C	soil	2007-05-03	11:00	2007-06-02
126191	Background-C	soil	2007-05-03	11:30	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.

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 Crow Flats 7-4 were received by TraceAnalysis, Inc. on 2007-06-02 and assigned to work order 7060410. Samples for work order 7060410 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 7060410 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: 126186 - NW-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**84.1**		mg/Kg	10	5.00

Sample: 126187 - SW-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**154**		mg/Kg	10	5.00

Sample: 126188 - NE-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**63.3**		mg/Kg	4	5.00

Sample: 126189 - SE-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**68.4**		mg/Kg	10	5.00

Sample: 126190 - Center Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**145**	mg/Kg	10	5.00

Sample: 126191 - Background-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**40.7**	mg/Kg	4	5.00

Method Blank (1) QC Batch: 37863

QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	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:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	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	100	mg/Kg	1	100	<3.25	100	90 - 110	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: 126191

QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	QC Preparation:	2007-06-05	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]	254	mg/Kg	4	400	40.665	53	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]	242	mg/Kg	4	400	40.665	50	84.6 - 117	5	20

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

Standard (ICV-1)

QC Batch: 37863 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	99.7	100	85 - 115	2007-06-06

Standard (CCV-1)

QC Batch: 37863 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	100	100	85 - 115	2007-06-06

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

LAB Order ID # 70604 10 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: Cimarex Phone #:

Address: (Street, City, Zip) 207 S Mesa Carlsbad NM 8820 Fax #:

Contact Person: Dorsey Rogers E-mail: Dorsey + Shelly

Invoice to:
(If different from above)

Project #: Project Name: Crow Flats 7-4

Project Location (including state): Eddy County NM Sampler Signature: Shelly Judkins

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
126186	NW-Floor-C				✓									5-3-07	1010
187	SW-Floor-C				✓									5-3-07	1020
188	NE-Floor-C				✓									5-3-07	1040
189	SE-Floor-C				✓									5-3-07	1050
190	Center Floor-C				✓									5-3-07	1100
191	Background-C				✓									5-3-07	1130

MTBE 8021B / 602 / 8260B / 624	BTEX 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/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	Hold
																✓							
																✓							
																✓							
																✓							
																✓							
																✓							

Relinquished by: Shelly Judkins Date: 6/1/07 Time: 700P
Received by: [signature] Date: 6-1-07 Time: 7am

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 °C
Log-in-Review [signature]

REMARKS:

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

Carrier # Ft Worth

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

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