Summary Report

Shelly Tucker Cimarex

207 S Mesa

Carlsbad, NM, 88220

30-015-34675

Report Date: June 6, 2007

Work Order: 7060407

Project Name:

Project Location: Eddy County NM Crow Flats 7-1

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	Received
126164	NW-Floor-C	soil	2007-04-27	09:30	2007-06-02
126165	${f NE} ext{-Floor-C}$	soil	2007-04-27	09:40	2007-06-02
126166	SW-Floor- C	soil	2007-04-27	09:55	2007-06-02
126167	SE-Floor-C	soil	2007-04-27	10:10	2007-06-02
126168	Center-C	soil	2007-04-27	10:20	2007-06-02
126169	Background	soil	2007-04-27	10:40	2007-06-02

Sample: 126164 - NW-Floor-C

Param	Flag	Result	Units	RL
Chloride		318	mg/Kg	5.00

Sample: 126165 - NE-Floor-C

Param	Flag	Result	Units	RL
Chloride		589	mg/Kg	5.00

Sample: 126166 - SW-Floor-C

Param	\mathbf{Flag}	Result	Units	RL
Chloride		369	mg/Kg	5.00

Sample: 126167 - SE-Floor-C

Param	Flag	Result	${\bf Units}$	RL
Chloride	_	424	mg/Kg	5.00

Sample: 126168 - Center-C

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: June 6, 2007 Work Order: 7060407 Page Number: 2 of 2
Crow Flats 7-1 Eddy County NM

Param	Flag	Result	\mathbf{Units}	RL
Chloride		687	mg/Kg	5.00

Sample: 126169 - Background

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



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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:

7060407

Project Location: Eddy County NM Project Name: Project Number:

Crow Flats 7-1 Crow Flats 7-1

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
126164	NW-Floor-C	soil	2007-04-27	09:30	2007-06-02
126165	NE-Floor-C	soil	2007-04-27	09:40	2007-06-02
126166	SW-Floor-C	soil	2007-04-27	09:55	2007-06-02
126167	SE-Floor-C	soil	2007-04-27	10:10	2007-06-02
126168	Center-C	soil	2007-04-27	10:20	2007-06-02
126169	Background	soil	2007-04-27	10:40	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 6 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 Crow Flats 7-1 were received by TraceAnalysis, Inc. on 2007-06-02 and assigned to work order 7060407. Samples for work order 7060407 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 7060407 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.

Report Date: June 6, 2007

Crow Flats 7-1

Work Order: 7060407 Crow Flats 7-1

Page Number: 3 of 6 Eddy County NM

Analytical Report

Sample: 126164 - NW-Floor-C

Analysis:

Chloride (Titration)

QC Batch: 37860 Prep Batch: 32792 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2007-06-06 2007-06-05

Prep Method: N/A Analyzed By: SM

Prepared By: SM

RL

Dilution Result Units Parameter Flag 20 Chloride 318 mg/Kg

Sample: 126165 - NE-Floor-C

32793

Analysis: QC Batch:

Prep Batch:

Chloride (Titration) 37861

Analytical Method: Date Analyzed: Sample Preparation: SM 4500-Cl B 2007-06-06

2007-06-05

Prep Method: N/AAnalyzed By: JS

Prepared By: SM

RL

5.00

RL

Result Units Dilution RLParameter Flag 589 100 5.00 Chloride mg/Kg

Sample: 126166 - SW-Floor-C

32793

Analysis: QC Batch:

Prep Batch:

Chloride (Titration)

Analytical Method: Date Analyzed: Sample Preparation: SM 4500-Cl B 2007-06-06 2007-06-05

Prep Method: N/A Analyzed By: JS

SM

Prepared By:

RL

424

Dilution RLResult Units Parameter Flag 369 20 5.00 Chloride mg/Kg

Sample: 126167 - SE-Floor-C

37861

32793

Analysis: QC Batch: Prep Batch: Chloride (Titration)

Analytical Method: Date Analyzed:

SM 4500-Cl B 2007-06-06

Prep Method: N/A Analyzed By: JS

Sample Preparation: 2007-06-05

Prepared By: SM

Parameter Flag Chloride

RLResult Units

mg/Kg

Dilution RL5.00

Sample: 126168 - Center-C

Analysis: QC Batch: 37861

Prep Batch:

Analytical Method: Chloride (Titration) Date Analyzed: 32793 Sample Preparation:

SM 4500-Cl B 2007-06-06 2007-06-05

Prep Method: N/A Analyzed By: JS Prepared By: SM

Report Date: June 6, 2007

Crow Flats 7-1

Work Order: 7060407 Crow Flats 7-1

Page Number: 4 of 6 Eddy County NM

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		687	mg/Kg	100	5.00

Sample: 126169 - Background

Analysis: Chloride (Titration)

QC Batch: 37861 Prep Batch: 32793 Analytical Method: Date Analyzed:

SM 4500-Cl B 2007-06-06

Prep Method: N/A Analyzed By: JS

Sample Preparation: 2007-06-05

Prepared By: SM

RLFlag Dilution RLParameter Result Units 5.00 Chloride <20.0 mg/Kg

Method Blank (1) QC Batch: 37860

QC Batch: 37860 Prep Batch: 32792

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

Analyzed By: SM Prepared By: SM

MDL RLParameter Flag Result Units Chloride < 3.25 mg/Kg 5

Method Blank (1) QC Batch: 37861

QC Batch: 37861 Prep Batch: 32793 Date Analyzed: 2007-06-06 QC Preparation: 2007-06-05 Analyzed By: Prepared By:

MDL Units Parameter Flag Result RLChloride < 3.25 mg/Kg 5

Laboratory Control Spike (LCS-1)

QC Batch:

37860

Date Analyzed:

2007-06-06

Analyzed By: SM

Prep Batch: 32792

QC Preparation:

2007-06-05

Prepared By: SM

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

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	98.2	mg/Kg	1	100	< 3.25	98	90 - 110	2	20

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

Report Date: June 6, 2007

Crow Flats 7-1

Work Order: 7060407 Crow Flats 7-1

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Laboratory Control Spike (LCS-1)

QC Batch:

37861

Date Analyzed:

2007-06-06

Analyzed By: JS

Prepared By: JS

Prep Batch:

32793

QC Preparation: 2007-06-05

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Chloride 98.3 mg/Kg 100 < 3.25 98 90 - 110

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

	LCSD			\mathbf{Spike}	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	102	mg/Kg	1	100	< 3.25	102	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: 126164

QC Batch: 37860 Date Analyzed: 2007-06-06 Analyzed By: SM

Prep Batch: 32792

QC Preparation: 2007-06-05

Prepared By: SM

		MS			\mathbf{Spike}	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	1	674	mg/Kg	20	2000	317.647	18	84.6 - 117

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

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
Chloride	2	537	${ m mg/Kg}$	20	2000	317.647	11	84.6 - 117	23	20

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

Spiked Sample: 126172 Matrix Spike (MS-1)

QC Batch:

37861

Date Analyzed:

2007-06-06

Analyzed By: JS

Prep Batch: 32793

QC Preparation: 2007-06-05

Prepared By: JS

		MS			\mathbf{Spike}	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	3	581	mg/Kg	20	2000	168.793	21	84.6 - 117

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

		MSD			\mathbf{Spike}	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	4	742	mg/Kg	20	2000	168.793	29	84.6 - 117	24	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. ³Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix 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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Standard	(ICV-1)

QC Batch: 37860

Date Analyzed: 2007-06-06

Analyzed By: SM

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

Standard (CCV-1)

QC Batch: 37860

Date Analyzed: 2007-06-06

Analyzed By: SM

			${ m CCVs} \ { m True}$	$\begin{array}{c} { m CCVs} \\ { m Found} \end{array}$	$egin{array}{c} ext{CCVs} \ ext{Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-06-06

Standard (ICV-1)

QC Batch: 37861

Date Analyzed: 2007-06-06

Analyzed By: JS

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

Standard (CCV-1)

QC Batch: 37861

Date Analyzed: 2007-06-06

Analyzed By: JS

			CCVs	CCVs	${ m CCVs}$	Percent	_
			${f True}$	\mathbf{Found}	$\operatorname{Percent}$	Recovery	Date
Param	Flag	${f Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.9	100	85 - 115	2007-06-06

LAB Order ID#	1060407
LAB Order ID#	1000101

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TraceAnalysis, Inc.

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