

Summary Report

Dorsey Rogers
Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: June 7, 2007

Work Order: 7060716



Project Location: Sec. 1, T25s, R26e
Project Name: Marguardt-1 Pennfed #3
Project Number: API #30-015-34788

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126642	#001 S. E. Corner 3'	soil	2007-06-06	11:00	2007-06-07
126643	#002 N. E. Corner 3'	soil	2007-06-06	12:00	2007-06-07
126644	#003 N. W. Corner 3'	soil	2007-06-06	13:00	2007-06-07
126645	#004 S. W. Corner 3'	soil	2007-06-06	14:00	2007-06-07
126646	#005 Background	soil	2007-06-06	15:00	2007-06-07

Sample: 126642 - #001 S. E. Corner 3'

Param	Flag	Result	Units	RL
Chloride		273	mg/Kg	5.00

Sample: 126643 - #002 N. E. Corner 3'

Param	Flag	Result	Units	RL
Chloride		242	mg/Kg	5.00

Sample: 126644 - #003 N. W. Corner 3'

Param	Flag	Result	Units	RL
Chloride		198	mg/Kg	5.00

Sample: 126645 - #004 S. W. Corner 3'

Param	Flag	Result	Units	RL
Chloride		67.3	mg/Kg	5.00

Sample: 126646 - #005 Background

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 7, 2007
API #30-015-34788

Work Order: 7060716
Marguardt-1 Pennfed #3

Page Number: 2 of 2
Sec. 1, T25s, R26e

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 7, 2007

Work Order: 7060716



Project Location: Sec. 1, T25s, R26e
Project Name: Marguardt-1 Pennfed #3
Project Number: API #30-015-34788

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
126642	#001 S. E. Corner 3'	soil	2007-06-06	11:00	2007-06-07
126643	#002 N. E. Corner 3'	soil	2007-06-06	12:00	2007-06-07
126644	#003 N. W. Corner 3'	soil	2007-06-06	13:00	2007-06-07
126645	#004 S. W. Corner 3'	soil	2007-06-06	14:00	2007-06-07
126646	#005 Background	soil	2007-06-06	15:00	2007-06-07

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 Marguardt-1 Pennfed #3 were received by TraceAnalysis, Inc. on 2007-06-07 and assigned to work order 7060716. Samples for work order 7060716 were received intact at a temperature of 1.0 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 7060716 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: 126642 - #001 S. E. Corner 3'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37945	Date Analyzed:	2007-06-07	Analyzed By:	JS
Prep Batch:	32858	Sample Preparation:	2007-06-07	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		273	mg/Kg	20	5.00

Sample: 126643 - #002 N. E. Corner 3'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37945	Date Analyzed:	2007-06-07	Analyzed By:	JS
Prep Batch:	32858	Sample Preparation:	2007-06-07	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		242	mg/Kg	20	5.00

Sample: 126644 - #003 N. W. Corner 3'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37945	Date Analyzed:	2007-06-07	Analyzed By:	JS
Prep Batch:	32858	Sample Preparation:	2007-06-07	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		198	mg/Kg	20	5.00

Sample: 126645 - #004 S. W. Corner 3'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37945	Date Analyzed:	2007-06-07	Analyzed By:	JS
Prep Batch:	32858	Sample Preparation:	2007-06-07	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		67.3	mg/Kg	10	5.00

Sample: 126646 - #005 Background

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37945	Date Analyzed:	2007-06-07	Analyzed By:	JS
Prep Batch:	32858	Sample Preparation:	2007-06-07	Prepared By:	SM

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

Method Blank (1) QC Batch: 37945

QC Batch: 37945
Prep Batch: 32858

Date Analyzed: 2007-06-07
QC Preparation: 2007-06-07

Analyzed By: JS
Prepared By: JS

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

Laboratory Control Spike (LCS-1)

QC Batch: 37945
Prep Batch: 32858

Date Analyzed: 2007-06-07
QC Preparation: 2007-06-07

Analyzed By: JS
Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.8	mg/Kg	1	100	<3.25	98	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	98.2	mg/Kg	1	100	<3.25	98	90 - 110	0	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: 126646

QC Batch: 37945
Prep Batch: 32858

Date Analyzed: 2007-06-07
QC Preparation: 2007-06-07

Analyzed By: JS
Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 192	mg/Kg	4	400	<13.0	48	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	² 202	mg/Kg	4	400	<13.0	50	84.6 - 117	5	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: 37945

Date Analyzed: 2007-06-07

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.2	99	85 - 115	2007-06-07

Standard (CCV-1)

QC Batch: 37945

Date Analyzed: 2007-06-07

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	2007-06-07

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Company Name:	New Mexico Environmental	Phone #:	505-441-0403
Address:	(Street, City, Zip) PO box 310 Hobbs N.M. 88241	Fax #:	392-3085
Contact Person:	Cris Rugh	E-mail:	
Invoice to:	Conarex Energy		
(If different from above)			
Project #:	Ap# 30-015-34788	Project Name:	Marquardt / Pentel #3
Project Location (including state):	Sec. 1, T25S, R26E	Sampler Signature:	Cris Rugh

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
C. B. Buck	6/7/07	7:00am	Jerry Tark	6-7-07	7:00am
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
Jerry Tark	6-7-07	9:00	S. G. Nault	6-7-07	9:00

LAB USE ONLY

Intact Y/N
Headspace Y/N
Temp 1
Log-in-Review W

REMARKS:

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

Carrier # Carry in

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

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