

Summary Report

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Report Date: June 21, 2007

Work Order: 7062017



Project Location: Unit-L, Sec 11, T25s, R26e, Eddy, Co.
Project Name: Grunberg 11 Fed Com #3
Project Number: API 30-015-34193

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
127979	#001 E. Leg 10'	soil	2007-06-19	10:00	2007-06-20
127980	#002 N. Leg 10'	soil	2007-06-19	11:00	2007-06-20
127981	#003 W. Leg 10'	soil	2007-06-19	12:00	2007-06-20
127982	#004 Inside E. Leg 10'	soil	2007-06-19	13:00	2007-06-20
127983	#005 Inside W. Leg 10'	soil	2007-06-19	14:00	2007-06-20
127984	#006 Background	soil	2007-06-19	15:00	2007-06-20

Sample: 127979 - #001 E. Leg 10'

Param	Flag	Result	Units	RL
Chloride		583	mg/Kg	5.00

Sample: 127980 - #002 N. Leg 10'

Param	Flag	Result	Units	RL
Chloride		322	mg/Kg	5.00

Sample: 127981 - #003 W. Leg 10'

Param	Flag	Result	Units	RL
Chloride		107	mg/Kg	5.00

Sample: 127982 - #004 Inside E. Leg 10'

Param	Flag	Result	Units	RL
Chloride		1610	mg/Kg	5.00

Sample: 127983 - #005 Inside W. Leg 10'

Param	Flag	Result	Units	RL
Chloride		169	mg/Kg	5.00

Sample: 127984 - #006 Background

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



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Analytical and Quality Control Report

Dorsey Rogers
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Work Order: 7062017



Project Location: Unit-L, Sec 11, T25s, R26e, Eddy, Co.
Project Name: Grunberg 11 Fed Com #3
Project Number: API 30-015-34193

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
127979	#001 E. Leg 10'	soil	2007-06-19	10:00	2007-06-20
127980	#002 N. Leg 10'	soil	2007-06-19	11:00	2007-06-20
127981	#003 W. Leg 10'	soil	2007-06-19	12:00	2007-06-20
127982	#004 Inside E. Leg 10'	soil	2007-06-19	13:00	2007-06-20
127983	#005 Inside W. Leg 10'	soil	2007-06-19	14:00	2007-06-20
127984	#006 Background	soil	2007-06-19	15:00	2007-06-20

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 Grunberg 11 Fed Com #3 were received by TraceAnalysis, Inc. on 2007-06-20 and assigned to work order 7062017. Samples for work order 7062017 were received intact at a temperature of 4.0 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 7062017 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: 127979 - #001 E. Leg 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38407	Date Analyzed:	2007-06-21	Analyzed By:	JS
Prep Batch:	33241	Sample Preparation:	2007-06-21	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		583	mg/Kg	20	5.00

Sample: 127980 - #002 N. Leg 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38407	Date Analyzed:	2007-06-21	Analyzed By:	JS
Prep Batch:	33241	Sample Preparation:	2007-06-21	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		322	mg/Kg	20	5.00

Sample: 127981 - #003 W. Leg 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38407	Date Analyzed:	2007-06-21	Analyzed By:	JS
Prep Batch:	33241	Sample Preparation:	2007-06-21	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		107	mg/Kg	10	5.00

Sample: 127982 - #004 Inside E. Leg 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38407	Date Analyzed:	2007-06-21	Analyzed By:	JS
Prep Batch:	33241	Sample Preparation:	2007-06-21	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1610	mg/Kg	200	5.00

Sample: 127983 - #005 Inside W. Leg 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38407	Date Analyzed:	2007-06-21	Analyzed By:	JS
Prep Batch:	33241	Sample Preparation:	2007-06-21	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		169	mg/Kg	10	5.00

Sample: 127984 - #006 Background

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 38407 Date Analyzed: 2007-06-21 Analyzed By: JS
Prep Batch: 33241 Sample Preparation: 2007-06-21 Prepared By: JS

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

Method Blank (1) QC Batch: 38407

QC Batch: 38407 Date Analyzed: 2007-06-21 Analyzed By: JS
Prep Batch: 33241 QC Preparation: 2007-06-21 Prepared By: JS

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

Laboratory Control Spike (LCS-1)

QC Batch: 38407 Date Analyzed: 2007-06-21 Analyzed By: JS
Prep Batch: 33241 QC Preparation: 2007-06-21 Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<3.25	100	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	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: 127984

QC Batch: 38407 Date Analyzed: 2007-06-21 Analyzed By: JS
Prep Batch: 33241 QC Preparation: 2007-06-21 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	¹ 230	mg/Kg	4	400	<13.0	58	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	² 233	mg/Kg	4	400	<13.0	58	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: 38407 Date Analyzed: 2007-06-21 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	2007-06-21

Standard (CCV-1)

QC Batch: 38407 Date Analyzed: 2007-06-21 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	2007-06-21

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.

