



Summary Report

Kem McCreedy
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601 N. Marienfeld
Suite 508
Midland, TX, 79701

Report Date: May 7, 2007

Work Order: 7050726



30-015-34600

Project Name: Hannibal Fee No. 1

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123521	N 1/2 Comp Floor & Wall	soil	2007-05-05	13:00	2007-05-07
123522	S 1/2 Comp Floor & Wall	soil	2007-05-05	13:20	2007-05-07

Sample: 123521 - N 1/2 Comp Floor & Wall

Param	Flag	Result	Units	RL
Chloride		1680	mg/Kg	5.00

Sample: 123522 - S 1/2 Comp Floor & Wall

Param	Flag	Result	Units	RL
Chloride		3050	mg/Kg	5.00



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Analytical and Quality Control Report

Kem McCready
Nadel & Gussman Permian LLC
601 N. Marienfeld
Suite 508
Midland, TX, 79701

Report Date: May 7, 2007

Work Order: 7050726



Project Name: Hannibal Fee No. 1
Project Number: Hannibal Fee No. 1

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
123521	N 1/2 Comp Floor & Wall	soil	2007-05-05	13:00	2007-05-07
123522	S 1/2 Comp Floor & Wall	soil	2007-05-05	13:20	2007-05-07

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 4 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 'Hannibal Fee No. 1' were received by TraceAnalysis, Inc. on 2007-05-07 and assigned to work order 7050726. Samples for work order 7050726 were received intact at a temperature of 22 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 7050726 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: 123521 - N 1/2 Comp Floor & Wall

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37028	Date Analyzed:	2007-05-07	Analyzed By:	JS
Prep Batch:	32126	Sample Preparation:	2007-05-07	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1680	mg/Kg	20	5.00

Sample: 123522 - S 1/2 Comp Floor & Wall

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37028	Date Analyzed:	2007-05-07	Analyzed By:	JS
Prep Batch:	32126	Sample Preparation:	2007-05-07	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3050	mg/Kg	200	5.00

Method Blank (1) QC Batch: 37028

QC Batch:	37028	Date Analyzed:	2007-05-07	Analyzed By:	JS
Prep Batch:	32126	QC Preparation:	2007-05-07	Prepared By:	JS

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

Laboratory Control Spike (LCS-1)

QC Batch:	37028	Date Analyzed:	2007-05-07	Analyzed By:	JS
Prep Batch:	32126	QC Preparation:	2007-05-07	Prepared By:	JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.2	mg/Kg	1	100	<3.25	99	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	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.

Param	Flag	Result	Units	RL
Chloride		208	mg/Kg	5.00

Analytical Report

Sample: 123299 - N Wall Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36978	Date Analyzed:	2007-05-03	Analyzed By:	SM
Prep Batch:	32077	Sample Preparation:	2007-05-03	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8030	mg/Kg	200	5.00

Sample: 123300 - S Wall Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36978	Date Analyzed:	2007-05-03	Analyzed By:	SM
Prep Batch:	32077	Sample Preparation:	2007-05-03	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8180	mg/Kg	200	5.00

Sample: 123301 - E Wall Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36978	Date Analyzed:	2007-05-03	Analyzed By:	SM
Prep Batch:	32077	Sample Preparation:	2007-05-03	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		212	mg/Kg	20	5.00

Sample: 123302 - W Wall Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36978	Date Analyzed:	2007-05-03	Analyzed By:	SM
Prep Batch:	32077	Sample Preparation:	2007-05-03	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		174	mg/Kg	20	5.00

Sample: 123303 - Romulus Blowout Tank

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36978	Date Analyzed:	2007-05-03	Analyzed By:	SM
Prep Batch:	32077	Sample Preparation:	2007-05-03	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		208	mg/Kg	20	5.00

Method Blank (1) QC Batch: 36978

QC Batch: 36978 Date Analyzed: 2007-05-03 Analyzed By: SM
Prep Batch: 32077 QC Preparation: 2007-05-03 Prepared By: SM

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

Laboratory Control Spike (LCS-1)

QC Batch: 36978 Date Analyzed: 2007-05-03 Analyzed By: SM
Prep Batch: 32077 QC Preparation: 2007-05-03 Prepared By: SM

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	99.4	mg/Kg	1	100	<3.25	99	90 - 110	1	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: 123303

QC Batch: 36978 Date Analyzed: 2007-05-03 Analyzed By: SM
Prep Batch: 32077 QC Preparation: 2007-05-03 Prepared By: SM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 432	mg/Kg	20	2000	208.494	11	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	² 432	mg/Kg	20	2000	208.494	11	84.6 - 117	0	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: 36978

Date Analyzed: 2007-05-03

Analyzed By: SM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-05-03

Standard (CCV-1)

QC Batch: 36978

Date Analyzed: 2007-05-03

Analyzed By: SM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.2	99	85 - 115	2007-05-03

TraceAnalysis, Inc.

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Company Name: Quarman Periman, LLC Phone #: 432-682-4429
 Address: (Street, City, Zip) 601 N. Mainfield Dr., Suite 508, Midland, TX 79701 Fax #:
 Contact Person: Sam McCready E-mail: kevin@nagusa.com
 Invoice to:
 (If different from above)
 Project #: Nannal Fee #1 Project Name: APW
 Project Location (including state): Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		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 / 808	Pesticides 8061A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME																					
	Original Paradise pit area																																			
123299	N Walk Floor camp	1		X																																
3003	" " "	1		X																																
01E	" " "	1		X																																
02W	" " "	1		X																																
123303	Hydrocarbon contaminated soil mix down to 250ppm to Nannal Fee #1 from Romulus Fee #1	10		X																																
Relinquished by:	Date:	Time:	Received by:	Date:	Time:																															
Relinquished by:	Date:	Time:	Received by:	Date:	Time:																															
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:																															

LAB USE ONLY

Intact ☒ NHeadspace ☒ Y / NTemp 22°CLog-in-Review ☒

REMARKS:

24 hr.

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

Carrier # BUSC-1133-556707

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

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