



Summary Report

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

Report Date: May 11, 2007

Work Order: 7051115



30-015-34600

Project Name: Hannibal Fee No. 1

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123893	N 1/2 Resample Wall & Floor	soil	2007-05-10	08:00	2007-05-11
123894	S 1/2 Resample Wall & Floor	soil	2007-05-10	08:00	2007-05-11

Sample: 123893 - N 1/2 Resample Wall & Floor

Param	Flag	Result	Units	RL
Chloride		343	mg/Kg	5.00

Sample: 123894 - S 1/2 Resample Wall & Floor

Param	Flag	Result	Units	RL
Chloride		358	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 11, 2007

Work Order: 7051115



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
123893	N 1/2 Resample Wall & Floor	soil	2007-05-10	08:00	2007-05-11
123894	S 1/2 Resample Wall & Floor	soil	2007-05-10	08:00	2007-05-11

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 2007-05-11 and assigned to work order 7051115. Samples for work order 7051115 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 7051115 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: 123893 - N 1/2 Resample Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37154	Date Analyzed:	2007-05-11	Analyzed By:	JS
Prep Batch:	32230	Sample Preparation:	2007-05-11	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		343	mg/Kg	20	5.00

Sample: 123894 - S 1/2 Resample Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37154	Date Analyzed:	2007-05-11	Analyzed By:	JS
Prep Batch:	32230	Sample Preparation:	2007-05-11	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		358	mg/Kg	20	5.00

Method Blank (1) QC Batch: 37154

QC Batch:	37154	Date Analyzed:	2007-05-11	Analyzed By:	JS
Prep Batch:	32230	QC Preparation:	2007-05-11	Prepared By:	JS

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

Laboratory Control Spike (LCS-1)

QC Batch:	37154	Date Analyzed:	2007-05-11	Analyzed By:	JS
Prep Batch:	32230	QC Preparation:	2007-05-11	Prepared By:	JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.4	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	101	mg/Kg	1	100	<3.25	101	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: 123896

QC Batch: 37154
Prep Batch: 32230

Date Analyzed: 2007-05-11
QC Preparation: 2007-05-11

Analyzed By: JS
Prepared By: JS

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹	559	mg/Kg	20	2000	354	10	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	559	mg/Kg	20	2000	354	10	84.6 - 117	0	20

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

Standard (ICV-1)

QC Batch: 37154

Date Analyzed: 2007-05-11

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2007-05-11

Standard (CCV-1)

QC Batch: 37154

Date Analyzed: 2007-05-11

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	2007-05-11

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.

TraceAnalysis, Inc.

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 Address: 401 N. Mainfield Dr., Suite 503, Midland, TX 79701 Fax #:
 Contact Person: Ken McCready E-mail: kenm@quasman.com
 Invoice to:
 (If different from above)
 Project #: Hannibal Fee #1 Project Name: RAW
 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 8010B/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		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME																					
	Original borehole pit area																																			
123299	N Walk Plot camp	1			X							X																								
300	S " " "	1			X							X																								
01	E " " "	1			X							X																								
02	W " " "	1			X							X																								
123303	Hydrocarbon contaminated soil mix down to 250ppm to Hannibal Fee #1 from Romulus Fee #1	1			X							X																								

Soil Cl₂ on all samples X

Email results to:
kenm@quasman.com
mike, bratcha@state.nm.us
cmwink@mac.com

24 Hr.

Relinquished by: Chris Dinkler Date: 5/3/07 Time: 1330
 Received by: Deena Duple Date: 5/3/07 Time: 1110

Relinquished by: Date: Time:
 Received by: Date: Time:

Relinquished by: Date: Time:
 Received at Laboratory by: Date: Time:

LAB USE ONLY
 Intact (Y) N
 Headspace Y / N
 Temp 22°C
 Log-in-Review

REMARKS:
 24 Hr.
 Dry Weight Basis Required ☐
 TRRP Report Required ☐
 Check If Special Reporting Limits Are Needed ☐

Carrier # BUSC-1138556670

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

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