Analytical and Quality Control Report

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Report Date: December 12, 2006

Work Order: 6101310

Project Name: HELSTF Phase III Soil Sampling
Project Number: 7

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
105754	HLSF-0085-SB-029-(10.0-10.5)	soil	2006-10-10	14:05	2006-10-12
105755	HLSF-0085-SB-029-(20.0-21.0)	soil	2006-10-10	14:25	2006-10-12
105756	HLSF-0085-SB-029-(30.0-31.0)	soil	2006-10-10	15:05	2006-10-12
105757	HLSF-0085-SB-029-(40.0-41.0)	soil	2006-10-10	15:55	2006-10-12
105758	HLSF-0085-SB-029-(49.0-50.0)	soil	2006-10-10	16:45	2006-10-12
105759	HLSF-0085-SB-030-(10.0-11.0)	soil	2006-10-11	09:05	2006-10-12
105760	HLSF-0085-SB-030-(20.0-22.0)	soil	2006-10-11	09:20	2006-10-12
105761	HLSF-0085-SB-130-(20.0-22.0)	soil	2006-10-11	09:20	2006-10-12
105762	HLSF-0085-SB-030-(30.0-31.0)	soil	2006-10-11	09:50	2006-10-12
105763	HLSF-0085-SB-030-(40.0-41.0)	soil	2006-10-11	10:30	2006-10-12
105764	HLSF-0085-SB-030-(49.0-50.0)	soil	2006-10-11	11:25	2006-10-12
105765	HLSF-0085-SB-031-(10.0-11.0)	soil	2006-10-11	16:20	2006-10-12

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.

Michael Abel

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 105754 - HLSF-0085-SB-029-(10.0-10.5)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105755 - HLSF-0085-SB-029-(20.0-21.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105756 - HLSF-0085-SB-029-(30.0-31.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105757 - HLSF-0085-SB-029-(40.0-41.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105758 - HLSF-0085-SB-029-(49.0-50.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105759 - HLSF-0085-SB-030-(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105760 - HLSF-0085-SB-030-(20.0-22.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105761 - HLSF-0085-SB-130-(20.0-22.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105762 - HLSF-0085-SB-030-(30.0-31.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105763 - HLSF-0085-SB-030-(40.0-41.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105764 - HLSF-0085-SB-030-(49.0-50.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31051	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27022	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Sample: 105765 - HLSF-0085-SB-031-(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31051	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27022	Sample Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Hexavalent Chromium		<5.00	mg/Kg	1	5.00

Method Blank (1) QC Batch: 31050

QC Batch:	31050	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27021	QC Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	MDL Result	Units	RL
Hexavalent Chromium		<2.32	mg/Kg	5

Method Blank (1) QC Batch: 31051

QC Batch:	31051	Date Analyzed:	2006-10-18	Analyzed By:	WB
Prep Batch:	27022	QC Preparation:	2006-10-17	Prepared By:	WB

Parameter	Flag	MDL Result	Units	RL
Hexavalent Chromium		<2.32	mg/Kg	5

Laboratory Control Spike (LCS-1)

QC Batch: 31050 Date Analyzed: 2006-10-18 Analyzed By: WB
Prep Batch: 27021 QC Preparation: 2006-10-17 Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	43.0	mg/Kg	1	40.0	<2.32	108	77.3 - 119

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
Hexavalent Chromium	42.0	mg/Kg	1	40.0	<2.32	105	77.3 - 119	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 31051 Date Analyzed: 2006-10-18 Analyzed By: WB
Prep Batch: 27022 QC Preparation: 2006-10-17 Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	42.3	mg/Kg	1	40.0	<2.32	106	77.3 - 119

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
Hexavalent Chromium	40.0	mg/Kg	1	40.0	<2.32	100	77.3 - 119	6	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: 105763

QC Batch: 31050 Date Analyzed: 2006-10-18 Analyzed By: WB
Prep Batch: 27021 QC Preparation: 2006-10-17 Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	34.1	mg/Kg	1	40.0	<2.32	85	85 - 115

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
Hexavalent Chromium [1]	27.9	mg/Kg	1	40.0	<2.32	70	85 - 115	20	20

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

[1] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 105765

QC Batch: 31051 Date Analyzed: 2006-10-18 Analyzed By: WB
Prep Batch: 27022 QC Preparation: 2006-10-17 Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	36.9	mg/Kg	1	40.0	<2.32	92	85 - 115

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
Hexavalent Chromium	37.7	mg/Kg	1	40.0	<2.32	94	85 - 115	2	20

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

Standard (ICV-1)

QC Batch: 31050 Date Analyzed: 2006-10-18 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.500	0.552	110	85 - 115	2006-10-18

Standard (CCV-1)

QC Batch: 31050 Date Analyzed: 2006-10-18 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.500	0.493	99	85 - 115	2006-10-18

Standard (ICV-1)

QC Batch: 31051 Date Analyzed: 2006-10-18 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.500	0.493	99	85 - 115	2006-10-18

Standard (CCV-1)

QC Batch: 31051 Date Analyzed: 2006-10-18 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.500	0.507	101	85 - 115	2006-10-18