Analytical and Quality Control Report

William Little
WTS
P.O. Box 363
Building 126 3RD Floor
WSMR, NM, 88002

Report Date: December 5, 2006

Work Order: 6110313

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
107647	HLSF-0085-SB-034(10.0-11.0)	soil	2006-10-31	08:30	2006-11-01
107648	HLSF-0085-SB-034(20.0-21.0)	soil	2006-10-31	08:50	2006-11-01
107649	HLSF-0085-SB-034(30.0-31.0)	soil	2006-10-31	09:20	2006-11-01
107650	HLSF-0085-SB-034(40.0-41.0)	soil	2006-10-31	09:55	2006-11-01
107651	HLSF-0085-SB-034(49.0-50.0)	soil	2006-10-31	10:35	2006-11-01
107652	HLSF-0085-SB-033(10.0-11.0)	soil	2006-10-31	13:20	2006-11-01
107653	HLSF-0085-SB-033(20.0-21.0)	soil	2006-10-31	13:45	2006-11-01
107654	HLSF-0085-SB-033(30.0-31.0)	soil	2006-10-31	14:20	2006-11-01
107655	HLSF-0085-SB-033(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107656	HLSF-0085-SB-133(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107657	HLSF-0085-SB-033(49.0-50.0)	soil	2006-10-31	15:25	2006-11-01

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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: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31632	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27552	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**3.31**	%	1	0.00

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31632	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27552	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**2.92**	%	1	0.00

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31632	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27552	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**0.503**	%	1	0.00

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31632	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27552	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**3.25**	%	1	0.00

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31632	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27552	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**0.499**	%	1	0.00

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31632	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27552	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**2.49**	%	1	0.00

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31633	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27553	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**2.15**	%	1	0.00

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31633	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27553	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**1.16**	%	1	0.00

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31633	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27553	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**1.71**	%	1	0.00

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31633	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27553	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**3.58**	%	1	0.00

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31633	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27553	Sample Preparation:	2006-11-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**0.467**	%	1	0.00

Duplicates (1)

QC Batch:	31632	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27552	QC Preparation:	2006-11-05	Prepared By:	SM

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
FOC	0.579	0.503	%	1	14	34

Duplicates (1)

QC Batch:	31633	Date Analyzed:	2006-11-07	Analyzed By:	SM
Prep Batch:	27553	QC Preparation:	2006-11-05	Prepared By:	SM

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
FOC	0.544	0.467	%	1	15	34

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107648	HLSF-0085-SB-034(20.0-21.0)	soil	2006-10-31	08:50	2006-11-01
107649	HLSF-0085-SB-034(30.0-31.0)	soil	2006-10-31	09:20	2006-11-01
107650	HLSF-0085-SB-034(40.0-41.0)	soil	2006-10-31	09:55	2006-11-01
107651	HLSF-0085-SB-034(49.0-50.0)	soil	2006-10-31	10:35	2006-11-01
107652	HLSF-0085-SB-033(10.0-11.0)	soil	2006-10-31	13:20	2006-11-01
107653	HLSF-0085-SB-033(20.0-21.0)	soil	2006-10-31	13:45	2006-11-01
107654	HLSF-0085-SB-033(30.0-31.0)	soil	2006-10-31	14:20	2006-11-01
107655	HLSF-0085-SB-033(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107656	HLSF-0085-SB-133(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107657	HLSF-0085-SB-033(49.0-50.0)	soil	2006-10-31	15:25	2006-11-01

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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: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		152	mg/Kg	1	150	101	50 - 150

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		155	mg/Kg	1	150	103	50 - 150

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		161	mg/Kg	1	150	107	50 - 150

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		152	mg/Kg	1	150	101	50 - 150

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		163	mg/Kg	1	150	109	50 - 150

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		149	mg/Kg	1	150	99	50 - 150

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		146	mg/Kg	1	150	97	50 - 150

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		152	mg/Kg	1	150	101	50 - 150

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		138	mg/Kg	1	150	92	50 - 150

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		168	mg/Kg	1	150	112	50 - 150

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	31534	Date Analyzed:	2006-11-04	Analyzed By:	SP
Prep Batch:	27464	Sample Preparation:	2006-11-03	Prepared By:	SP

continued . . .

sample 107657 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		162	mg/Kg	1	150	108	50 - 150

Method Blank (1) QC Batch: 31534

QC Batch: 31534 Date Analyzed: 2006-11-04 Analyzed By: SP
Prep Batch: 27464 QC Preparation: 2006-11-03 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		146	mg/Kg	1	150	97	50 - 150

Laboratory Control Spike (LCS-1)

QC Batch: 31534 Date Analyzed: 2006-11-04 Analyzed By: SP
Prep Batch: 27464 QC Preparation: 2006-11-03 Prepared By: SP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	271	mg/Kg	1	250	<10.7	108	62.4 - 111

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
DRO	241	mg/Kg	1	250	<10.7	96	62.4 - 111	12	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	140	137	mg/Kg	1	150	93	91	50 - 150

Matrix Spike (MS-1) Spiked Sample: 107649

QC Batch: 31534 Date Analyzed: 2006-11-04 Analyzed By: SP
Prep Batch: 27464 QC Preparation: 2006-11-03 Prepared By: SP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	222	mg/Kg	1	250	<10.7	89	60.1 - 107

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
DRO	256	mg/Kg	1	250	<10.7	102	60.1 - 107	14	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	145	147	mg/Kg	1	150	97	98	50 - 150

Standard (ICV-1)

QC Batch: 31534 Date Analyzed: 2006-11-04 Analyzed By: SP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	222	89	85 - 115	2006-11-04

Standard (CCV-1)

QC Batch: 31534 Date Analyzed: 2006-11-04 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	257	103	85 - 115	2006-11-04

Standard (CCV-2)

QC Batch: 31534 Date Analyzed: 2006-11-04 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	256	102	85 - 115	2006-11-04

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107653	HLSF-0085-SB-033(20.0-21.0)	soil	2006-10-31	13:45	2006-11-01
107654	HLSF-0085-SB-033(30.0-31.0)	soil	2006-10-31	14:20	2006-11-01
107655	HLSF-0085-SB-033(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107656	HLSF-0085-SB-133(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107657	HLSF-0085-SB-033(49.0-50.0)	soil	2006-10-31	15:25	2006-11-01

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Analytical Report

Sample: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**1420**	mg/Kg	1	50.0

Sample: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**708**	mg/Kg	1	50.0

Sample: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**83.4**	mg/Kg	1	2.00

Sample: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		<2.00	mg/Kg	1	2.00
Total Barium		**64.6**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**5.54**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**8.85**	mg/Kg	1	1.00

continued . . .

sample 107647 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**9.76**	mg/Kg	1	2.00

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**2930**	mg/Kg	1	50.0

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**730**	mg/Kg	1	50.0

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**272**	mg/Kg	1	2.00

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		**9.81**	mg/Kg	1	2.00
Total Barium		**207**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**12.2**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**25.3**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		**37.3**	mg/Kg	1	2.00

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**744**	mg/Kg	1	50.0

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**572**	mg/Kg	1	50.0

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**163**	mg/Kg	1	2.00

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		<2.00	mg/Kg	1	2.00
Total Barium		**44.2**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**4.70**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**8.21**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**13.5**	mg/Kg	1	2.00

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**3810**	mg/Kg	1	50.0

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**4250**	mg/Kg	1	50.0

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**265**	mg/Kg	1	2.00

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		**10.4**	mg/Kg	1	2.00
Total Barium		**95.5**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**15.2**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**27.4**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		**49.3**	mg/Kg	1	2.00

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**519**	mg/Kg	1	50.0

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**1060**	mg/Kg	1	50.0

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**116**	mg/Kg	1	2.00

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		<2.00	mg/Kg	1	2.00
Total Barium		**32.7**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**2.74**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**6.90**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**10.2**	mg/Kg	1	2.00

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**1620**	mg/Kg	1	50.0

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**541**	mg/Kg	1	50.0

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**79.3**	mg/Kg	1	2.00

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		<2.00	mg/Kg	1	2.00
Total Barium		**71.4**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**6.26**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**10.4**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**12.6**	mg/Kg	1	2.00

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**2210**	mg/Kg	1	50.0

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**829**	mg/Kg	1	50.0

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**275**	mg/Kg	1	2.00

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		**11.6**	mg/Kg	1	2.00
Total Barium		**71.5**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**9.61**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**20.1**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		**30.3**	mg/Kg	1	2.00

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**2850**	mg/Kg	1	50.0

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**1830**	mg/Kg	1	50.0

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**261**	mg/Kg	1	2.00

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		**3.86**	mg/Kg	1	2.00
Total Barium		**1560**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**11.3**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**23.1**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		**30.9**	mg/Kg	1	2.00

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**4190**	mg/Kg	1	50.0

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**3770**	mg/Kg	1	50.0

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**300**	mg/Kg	1	2.00

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		<2.00	mg/Kg	1	2.00
Total Barium		**153**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**15.2**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**31.0**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		**48.2**	mg/Kg	1	2.00

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**3170**	mg/Kg	1	50.0

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31822	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**3970**	mg/Kg	1	50.0

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**263**	mg/Kg	1	2.00

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31735	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		**9.13**	mg/Kg	1	2.00
Total Barium		**40.7**	mg/Kg	1	1.00

continued . . .

sample 107656 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**14.2**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**26.9**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		**48.2**	mg/Kg	1	2.00

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31823	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		**503**	mg/Kg	1	50.0

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31823	Date Analyzed:	2006-11-11	Analyzed By:	TP
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**1130**	mg/Kg	1	50.0

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31703	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

continued . . .

sample 107657 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**96.6**	mg/Kg	1	2.00

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31703	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31736	Date Analyzed:	2006-11-09	Analyzed By:	TP
Prep Batch:	27636	Sample Preparation:	2006-11-09	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		<2.00	mg/Kg	1	2.00
Total Barium		**32.9**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**2.83**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**6.93**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31703	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	Sample Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**11.7**	mg/Kg	1	2.00

Method Blank (1) QC Batch: 31702

QC Batch:	31702	Date Analyzed:	2006-11-09	Analyzed By:	RR
Prep Batch:	27567	QC Preparation:	2006-11-07	Prepared By:	TS

Parameter	Flag	MDL Result	Units	RL
Total Phosphorous		1.49	mg/Kg	2

Method Blank (1) QC Batch: 31702

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Zinc		1.78	mg/Kg	2

Method Blank (1) QC Batch: 31702

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Silver		<0.00444	mg/Kg	0.05
Total Arsenic		<0.228	mg/Kg	2
Total Barium		<0.0601	mg/Kg	1
Total Cadmium		<0.00794	mg/Kg	0.1
Total Chromium		<0.0125	mg/Kg	0.5
Total Lead		<0.367	mg/Kg	1
Total Selenium		<0.0767	mg/Kg	1

Method Blank (1) QC Batch: 31703

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Phosphorous		1.49	mg/Kg	2

Method Blank (1) QC Batch: 31703

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Zinc		1.79	mg/Kg	2

Method Blank (1) QC Batch: 31703

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Silver		<0.00444	mg/Kg	0.05
Total Arsenic		<0.228	mg/Kg	2
Total Barium		<0.0601	mg/Kg	1
Total Cadmium		<0.00794	mg/Kg	0.1
Total Chromium		<0.0125	mg/Kg	0.5
Total Lead		<0.367	mg/Kg	1
Total Selenium		<0.0767	mg/Kg	1

Method Blank (1) QC Batch: 31735

QC Batch: 31735 Date Analyzed: 2006-11-09 Analyzed By: TP
Prep Batch: 27636 QC Preparation: 2006-11-09 Prepared By: TP

Parameter	Flag	MDL Result	Units	RL
Total Mercury		<0.00299	mg/Kg	0.04

Method Blank (1) QC Batch: 31736

QC Batch: 31736 Date Analyzed: 2006-11-09 Analyzed By: TP
Prep Batch: 27636 QC Preparation: 2006-11-09 Prepared By: TP

Parameter	Flag	MDL Result	Units	RL
Total Mercury		<0.00299	mg/Kg	0.04

Method Blank (1) QC Batch: 31822

QC Batch: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Potassium		2.18	mg/Kg	50

Method Blank (1) QC Batch: 31822

QC Batch: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Sodium		391	mg/Kg	50

Method Blank (1) QC Batch: 31823

QC Batch: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Potassium		2.18	mg/Kg	50

Method Blank (1) QC Batch: 31823

QC Batch: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Sodium		391	mg/Kg	50

Laboratory Control Spike (LCS-1)

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous	46.4	mg/Kg	1	50.0	<0.223	93	85 - 115

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
Total Phosphorous	45.3	mg/Kg	1	50.0	<0.223	91	85 - 115	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: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	26.5	mg/Kg	1	25.0	<0.124	106	85 - 115

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
Total Zinc	27.0	mg/Kg	1	25.0	<0.124	108	85 - 115	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: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	11.6	mg/Kg	1	12.5	<0.00444	93	85 - 113
Total Arsenic	44.2	mg/Kg	1	50.0	<0.228	88	85 - 111
Total Barium	91.5	mg/Kg	1	100	<0.0601	92	85 - 103
Total Cadmium	22.1	mg/Kg	1	25.0	<0.00794	88	85 - 115
Total Chromium	10.4	mg/Kg	1	10.0	<0.0125	104	85 - 115
Total Lead	45.5	mg/Kg	1	50.0	<0.367	91	85 - 115
Total Selenium	41.1	mg/Kg	1	50.0	<0.0767	82	75 - 125

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
Total Silver	11.6	mg/Kg	1	12.5	<0.00444	93	85 - 113	0	20
Total Arsenic	44.9	mg/Kg	1	50.0	<0.228	90	85 - 111	2	20
Total Barium	92.7	mg/Kg	1	100	<0.0601	93	85 - 103	1	20
Total Cadmium	22.4	mg/Kg	1	25.0	<0.00794	90	85 - 115	1	20
Total Chromium	10.4	mg/Kg	1	10.0	<0.0125	104	85 - 115	0	20
Total Lead	45.7	mg/Kg	1	50.0	<0.367	91	85 - 115	0	20
Total Selenium	41.9	mg/Kg	1	50.0	<0.0767	84	75 - 125	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: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous	46.4	mg/Kg	1	50.0	<0.223	93	85 - 115

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
Total Phosphorous	45.3	mg/Kg	1	50.0	<0.223	91	85 - 115	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: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	26.5	mg/Kg	1	25.0	<0.124	106	85 - 115

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
Total Zinc	27.0	mg/Kg	1	25.0	<0.124	108	85 - 115	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: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	11.6	mg/Kg	1	12.5	<0.00444	93	85 - 113
Total Arsenic	44.2	mg/Kg	1	50.0	<0.228	88	85 - 111
Total Barium	91.5	mg/Kg	1	100	<0.0601	92	85 - 103
Total Cadmium	22.1	mg/Kg	1	25.0	<0.00794	88	85 - 115
Total Chromium	10.4	mg/Kg	1	10.0	<0.0125	104	85 - 115
Total Lead	45.5	mg/Kg	1	50.0	<0.367	91	85 - 115
Total Selenium	41.1	mg/Kg	1	50.0	<0.0767	82	75 - 125

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
Total Silver	11.6	mg/Kg	1	12.5	<0.00444	93	85 - 113	0	20
Total Arsenic	44.9	mg/Kg	1	50.0	<0.228	90	85 - 111	2	20
Total Barium	92.7	mg/Kg	1	100	<0.0601	93	85 - 103	1	20
Total Cadmium	22.4	mg/Kg	1	25.0	<0.00794	90	85 - 115	1	20
Total Chromium	10.4	mg/Kg	1	10.0	<0.0125	104	85 - 115	0	20
Total Lead	45.7	mg/Kg	1	50.0	<0.367	91	85 - 115	0	20
Total Selenium	41.9	mg/Kg	1	50.0	<0.0767	84	75 - 125	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: 31735 Date Analyzed: 2006-11-09 Analyzed By: TP
Prep Batch: 27636 QC Preparation: 2006-11-09 Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.554	mg/Kg	1	0.500	<0.00299	111	85.2 - 118

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
Total Mercury	0.511	mg/Kg	1	0.500	<0.00299	102	85.2 - 118	8	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: 31736 Date Analyzed: 2006-11-09 Analyzed By: TP
Prep Batch: 27636 QC Preparation: 2006-11-09 Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.554	mg/Kg	1	0.500	<0.00299	111	85.2 - 118

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
Total Mercury	0.511	mg/Kg	1	0.500	<0.00299	102	85.2 - 118	8	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: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Potassium	4670	mg/Kg	100	5000	<29.1	93	85 - 115

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
Total Potassium	4520	mg/Kg	100	5000	<29.1	90	85 - 115	3	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: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	4730	mg/Kg	100	5000	<8.20	95	85.4 - 108

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
Total Sodium	4570	mg/Kg	100	5000	<8.20	91	85.4 - 108	3	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: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Potassium	4670	mg/Kg	100	5000	<29.1	93	85 - 115

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
Total Potassium	4520	mg/Kg	100	5000	<29.1	90	85 - 115	3	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: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	4730	mg/Kg	100	5000	<8.20	95	85.4 - 108

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
Total Sodium	4570	mg/Kg	100	5000	<8.20	91	85.4 - 108	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: 107651

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous	174	mg/Kg	1	50.0	116	116	75 - 125

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
Total Phosphorous	164	mg/Kg	1	50.0	116	96	75 - 125	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: 107651

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	34.9	mg/Kg	1	25.0	10.2	99	75 - 125

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
Total Zinc	34.1	mg/Kg	1	25.0	10.2	96	75 - 125	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: 107651

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	11.3	mg/Kg	1	12.5	<0.00444	90	78.1 - 115
Total Arsenic	46.7	mg/Kg	1	50.0	<0.228	93	75 - 114
Total Barium	132	mg/Kg	1	100	32.7	99	75.7 - 123
Total Cadmium	21.5	mg/Kg	1	25.0	<0.00794	86	75 - 112
Total Chromium	13.1	mg/Kg	1	10.0	2.74	104	75 - 125
Total Lead	49.5	mg/Kg	1	50.0	6.9	85	75 - 125
Total Selenium [1]	32.5	mg/Kg	1	50.0	<0.0767	65	75 - 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
Total Silver	12.0	mg/Kg	1	0.00	<0.00444	96	78.1 - 115	6	20
Total Arsenic	46.2	mg/Kg	1	0.00	<0.228	92	75 - 114	1	20
Total Barium	144	mg/Kg	1	0.00	32.7	111	75.7 - 123	9	20
Total Cadmium	21.8	mg/Kg	1	0.00	<0.00794	87	75 - 112	1	20
Total Chromium	12.9	mg/Kg	1	0.00	2.74	102	75 - 125	2	20
Total Lead	49.4	mg/Kg	1	0.00	6.9	85	75 - 125	0	20
Total Selenium [2]	32.5	mg/Kg	1	0.00	<0.0767	65	75 - 117	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: 107657

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous	146	mg/Kg	1	50.0	96.6	99	75 - 125

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
Total Phosphorous	147	mg/Kg	1	50.0	96.6	101	75 - 125	1	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.
[2] 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: 107657

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	33.3	mg/Kg	1	25.0	11.7	86	75 - 125

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
Total Zinc	32.6	mg/Kg	1	25.0	11.7	84	75 - 125	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: 107657

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	11.5	mg/Kg	1	12.5	<0.00444	92	78.1 - 115
Total Arsenic	44.3	mg/Kg	1	50.0	<0.228	89	75 - 114
Total Barium	125	mg/Kg	1	100	32.9	92	75.7 - 123
Total Cadmium	21.4	mg/Kg	1	25.0	<0.00794	86	75 - 112
Total Chromium	12.5	mg/Kg	1	10.0	2.83	97	75 - 125
Total Lead	47.1	mg/Kg	1	50.0	6.93	80	75 - 125
Total Selenium	41.7	mg/Kg	1	50.0	<0.0767	83	75 - 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
Total Silver	12.1	mg/Kg	1	0.00	<0.00444	97	78.1 - 115	5	20
Total Arsenic	44.2	mg/Kg	1	0.00	<0.228	88	75 - 114	0	20
Total Barium	127	mg/Kg	1	0.00	32.9	94	75.7 - 123	2	20
Total Cadmium	21.8	mg/Kg	1	0.00	<0.00794	87	75 - 112	2	20
Total Chromium	12.7	mg/Kg	1	0.00	2.83	99	75 - 125	2	20
Total Lead	47.6	mg/Kg	1	0.00	6.93	81	75 - 125	1	20
Total Selenium	40.5	mg/Kg	1	0.00	<0.0767	81	75 - 117	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: 107649

QC Batch: 31735 Date Analyzed: 2006-11-09 Analyzed By: TP
Prep Batch: 27636 QC Preparation: 2006-11-09 Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.515	mg/Kg	1	0.500	<0.00299	103	77.6 - 124

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
Total Mercury	0.514	mg/Kg	1	0.00	<0.00299	103	77.6 - 124	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: 107951

QC Batch: 31736 Date Analyzed: 2006-11-09 Analyzed By: TP
Prep Batch: 27636 QC Preparation: 2006-11-09 Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.506	mg/Kg	1	0.500	0.00648	100	77.6 - 124

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
Total Mercury	0.505	mg/Kg	1	0.00	0.00648	100	77.6 - 124	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: 107651

QC Batch: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Potassium	5070	mg/Kg	100	5000	519	91	75 - 125

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
Total Potassium	4870	mg/Kg	100	5000	519	87	75 - 125	4	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: 107651

QC Batch: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	5690	mg/Kg	100	5000	1063	92	78.4 - 125

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

continued . . .

matrix spikes continued . . .

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Sodium	5510	mg/Kg	100	5000	1063	89	78.4 - 125	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: 107657

QC Batch: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Potassium	4940	mg/Kg	100	5000	503	89	75 - 125

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
Total Potassium	4850	mg/Kg	100	5000	503	87	75 - 125	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: 107657

QC Batch: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP
Prep Batch: 27567 QC Preparation: 2006-11-07 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	5600	mg/Kg	100	5000	1131	89	78.4 - 125

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
Total Sodium	5590	mg/Kg	100	5000	1131	89	78.4 - 125	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: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		mg/Kg	5.00	4.95	99	90 - 110	2006-11-09

Standard (ICV-1)

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/Kg	1.00	1.01	101	90 - 110	2006-11-09

Standard (ICV-1)

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/Kg	0.125	0.128	102	90 - 110	2006-11-09
Total Arsenic		mg/Kg	1.00	1.03	103	95 - 105	2006-11-09
Total Barium		mg/Kg	1.00	1.02	102	95 - 105	2006-11-09
Total Cadmium		mg/Kg	1.00	1.00	100	95 - 105	2006-11-09
Total Chromium		mg/Kg	1.00	0.997	100	90 - 110	2006-11-09
Total Lead		mg/Kg	1.00	1.01	101	90 - 110	2006-11-09
Total Selenium		mg/Kg	1.00	1.05	105	90 - 110	2006-11-09

Standard (CCV-1)

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		mg/Kg	5.00	4.97	99	90 - 110	2006-11-09

Standard (CCV-1)

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/Kg	1.00	1.02	102	90 - 110	2006-11-09

Standard (CCV-1)

QC Batch: 31702 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/Kg	0.125	0.126	101	90 - 110	2006-11-09
Total Arsenic		mg/Kg	1.00	0.997	100	90 - 110	2006-11-09
Total Barium		mg/Kg	1.00	0.996	100	90 - 110	2006-11-09

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standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cadmium		mg/Kg	1.00	1.01	101	90 - 110	2006-11-09
Total Chromium		mg/Kg	1.00	1.01	101	90 - 110	2006-11-09
Total Lead		mg/Kg	1.00	1.03	103	90 - 110	2006-11-09
Total Selenium		mg/Kg	1.00	0.995	100	90 - 110	2006-11-09

Standard (ICV-1)

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		mg/Kg	5.00	4.95	99	90 - 110	2006-11-09

Standard (ICV-1)

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/Kg	1.00	1.01	101	90 - 110	2006-11-09

Standard (ICV-1)

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/Kg	0.125	0.128	102	90 - 110	2006-11-09
Total Arsenic		mg/Kg	1.00	1.03	103	95 - 105	2006-11-09
Total Barium		mg/Kg	1.00	1.02	102	95 - 105	2006-11-09
Total Cadmium		mg/Kg	1.00	1.00	100	95 - 105	2006-11-09
Total Chromium		mg/Kg	1.00	0.997	100	90 - 110	2006-11-09
Total Lead		mg/Kg	1.00	1.01	101	90 - 110	2006-11-09
Total Selenium		mg/Kg	1.00	1.05	105	90 - 110	2006-11-09

Standard (CCV-1)

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		mg/Kg	5.00	4.98	100	90 - 110	2006-11-09

Standard (CCV-1)

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/Kg	1.00	1.00	100	90 - 110	2006-11-09

Standard (CCV-1)

QC Batch: 31703 Date Analyzed: 2006-11-09 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/Kg	0.125	0.126	101	90 - 110	2006-11-09
Total Arsenic		mg/Kg	1.00	1.03	103	90 - 110	2006-11-09
Total Barium		mg/Kg	1.00	1.03	103	90 - 110	2006-11-09
Total Cadmium		mg/Kg	1.00	1.01	101	90 - 110	2006-11-09
Total Chromium		mg/Kg	1.00	0.997	100	90 - 110	2006-11-09
Total Lead		mg/Kg	1.00	1.01	101	90 - 110	2006-11-09
Total Selenium		mg/Kg	1.00	1.05	105	90 - 110	2006-11-09

Standard (ICV-1)

QC Batch: 31735 Date Analyzed: 2006-11-09 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00500	0.00506	101	90 - 110	2006-11-09

Standard (CCV-1)

QC Batch: 31735 Date Analyzed: 2006-11-09 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00500	0.00502	100	80 - 120	2006-11-09

Standard (ICV-1)

QC Batch: 31736 Date Analyzed: 2006-11-09 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00500	0.00506	101	90 - 110	2006-11-09

Standard (CCV-1)

QC Batch: 31736 Date Analyzed: 2006-11-09 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00500	0.00498	100	80 - 120	2006-11-09

Standard (ICV-1)

QC Batch: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Potassium		mg/Kg	50.0	50.6	101	90 - 110	2006-11-11

Standard (ICV-1)

QC Batch: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	50.0	51.0	102	90 - 110	2006-11-11

Standard (CCV-1)

QC Batch: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Potassium		mg/Kg	50.0	48.9	98	90 - 110	2006-11-11

Standard (CCV-1)

QC Batch: 31822 Date Analyzed: 2006-11-11 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	50.0	49.6	99	90 - 110	2006-11-11

Standard (ICV-1)

QC Batch: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Potassium		mg/Kg	50.0	50.6	101	90 - 110	2006-11-11

Standard (ICV-1)

QC Batch: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	50.0	51.0	102	90 - 110	2006-11-11

Standard (CCV-1)

QC Batch: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Potassium		mg/Kg	50.0	48.5	97	90 - 110	2006-11-11

Standard (CCV-1)

QC Batch: 31823 Date Analyzed: 2006-11-11 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	50.0	49.4	99	90 - 110	2006-11-11

Analytical and Quality Control Report

William Little
WTS
P.O. Box 363
Building 126 3RD Floor
WSMR, NM, 88002

Report Date: December 5, 2006

Work Order: 6110313

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
107647	HLSF-0085-SB-034(10.0-11.0)	soil	2006-10-31	08:30	2006-11-01
107648	HLSF-0085-SB-034(20.0-21.0)	soil	2006-10-31	08:50	2006-11-01
107649	HLSF-0085-SB-034(30.0-31.0)	soil	2006-10-31	09:20	2006-11-01
107650	HLSF-0085-SB-034(40.0-41.0)	soil	2006-10-31	09:55	2006-11-01
107651	HLSF-0085-SB-034(49.0-50.0)	soil	2006-10-31	10:35	2006-11-01
107652	HLSF-0085-SB-033(10.0-11.0)	soil	2006-10-31	13:20	2006-11-01
107653	HLSF-0085-SB-033(20.0-21.0)	soil	2006-10-31	13:45	2006-11-01
107654	HLSF-0085-SB-033(30.0-31.0)	soil	2006-10-31	14:20	2006-11-01
107655	HLSF-0085-SB-033(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107656	HLSF-0085-SB-133(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107657	HLSF-0085-SB-033(49.0-50.0)	soil	2006-10-31	15:25	2006-11-01

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 11 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: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.740	mg/Kg	1	2.67	28	8.6 - 115
Phenol-d5		0.950	mg/Kg	1	2.67	36	6.3 - 124
Nitrobenzene-d5		1.46	mg/Kg	1	2.67	55	11.3 - 116
2-Fluorobiphenyl		2.17	mg/Kg	1	2.67	81	14.6 - 122
2,4,6-Tribromophenol		1.23	mg/Kg	1	2.67	46	13.8 - 123
Terphenyl-d14		2.29	mg/Kg	1	2.67	86	30.8 - 134

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.24	mg/Kg	1	2.67	46	8.6 - 115
Phenol-d5		1.74	mg/Kg	1	2.67	65	6.3 - 124
Nitrobenzene-d5		1.89	mg/Kg	1	2.67	71	11.3 - 116
2-Fluorobiphenyl		2.42	mg/Kg	1	2.67	91	14.6 - 122
2,4,6-Tribromophenol		2.10	mg/Kg	1	2.67	79	13.8 - 123
Terphenyl-d14		2.58	mg/Kg	1	2.67	97	30.8 - 134

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250

continued . . .

sample 107649 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.18	mg/Kg	1	2.67	44	8.6 - 115
Phenol-d5		1.39	mg/Kg	1	2.67	52	6.3 - 124
Nitrobenzene-d5		1.61	mg/Kg	1	2.67	60	11.3 - 116
2-Fluorobiphenyl		2.09	mg/Kg	1	2.67	78	14.6 - 122
2,4,6-Tribromophenol		1.94	mg/Kg	1	2.67	73	13.8 - 123
Terphenyl-d14		2.21	mg/Kg	1	2.67	83	30.8 - 134

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.58	mg/Kg	1	2.67	59	8.6 - 115
Phenol-d5		1.84	mg/Kg	1	2.67	69	6.3 - 124
Nitrobenzene-d5		1.99	mg/Kg	1	2.67	74	11.3 - 116
2-Fluorobiphenyl		2.63	mg/Kg	1	2.67	98	14.6 - 122
2,4,6-Tribromophenol		2.40	mg/Kg	1	2.67	90	13.8 - 123
Terphenyl-d14		2.80	mg/Kg	1	2.67	105	30.8 - 134

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.23	mg/Kg	1	2.67	46	8.6 - 115
Phenol-d5		1.53	mg/Kg	1	2.67	57	6.3 - 124
Nitrobenzene-d5		1.63	mg/Kg	1	2.67	61	11.3 - 116

continued . . .

sample continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorobiphenyl		2.24	mg/Kg	1	2.67	84	14.6 - 122
2,4,6-Tribromophenol		1.80	mg/Kg	1	2.67	67	13.8 - 123
Terphenyl-d14		2.41	mg/Kg	1	2.67	90	30.8 - 134

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.450	mg/Kg	1	2.67	17	8.6 - 115
Phenol-d5		0.910	mg/Kg	1	2.67	34	6.3 - 124
Nitrobenzene-d5		1.76	mg/Kg	1	2.67	66	11.3 - 116
2-Fluorobiphenyl		2.43	mg/Kg	1	2.67	91	14.6 - 122
2,4,6-Tribromophenol		1.03	mg/Kg	1	2.67	38	13.8 - 123
Terphenyl-d14		2.84	mg/Kg	1	2.67	106	30.8 - 134

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.04	mg/Kg	1	2.67	39	8.6 - 115
Phenol-d5		1.44	mg/Kg	1	2.67	54	6.3 - 124
Nitrobenzene-d5		1.70	mg/Kg	1	2.67	64	11.3 - 116
2-Fluorobiphenyl		2.35	mg/Kg	1	2.67	88	14.6 - 122
2,4,6-Tribromophenol		1.79	mg/Kg	1	2.67	67	13.8 - 123
Terphenyl-d14		2.45	mg/Kg	1	2.67	92	30.8 - 134

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.06	mg/Kg	1	2.67	40	8.6 - 115
Phenol-d5		1.53	mg/Kg	1	2.67	57	6.3 - 124
Nitrobenzene-d5		1.90	mg/Kg	1	2.67	71	11.3 - 116
2-Fluorobiphenyl		2.45	mg/Kg	1	2.67	92	14.6 - 122
2,4,6-Tribromophenol		1.87	mg/Kg	1	2.67	70	13.8 - 123
Terphenyl-d14		2.65	mg/Kg	1	2.67	99	30.8 - 134

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.60	mg/Kg	1	2.67	60	8.6 - 115
Phenol-d5		2.04	mg/Kg	1	2.67	76	6.3 - 124
Nitrobenzene-d5		2.26	mg/Kg	1	2.67	85	11.3 - 116
2-Fluorobiphenyl		2.85	mg/Kg	1	2.67	107	14.6 - 122
2,4,6-Tribromophenol		2.69	mg/Kg	1	2.67	101	13.8 - 123
Terphenyl-d14		3.06	mg/Kg	1	2.67	115	30.8 - 134

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.56	mg/Kg	1	2.67	58	8.6 - 115
Phenol-d5		1.85	mg/Kg	1	2.67	69	6.3 - 124
Nitrobenzene-d5		2.13	mg/Kg	1	2.67	80	11.3 - 116
2-Fluorobiphenyl		2.63	mg/Kg	1	2.67	98	14.6 - 122
2,4,6-Tribromophenol		2.48	mg/Kg	1	2.67	93	13.8 - 123
Terphenyl-d14		2.88	mg/Kg	1	2.67	108	30.8 - 134

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	Sample Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzyl alcohol		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.27	mg/Kg	1	2.67	48	8.6 - 115
Phenol-d5		1.57	mg/Kg	1	2.67	59	6.3 - 124
Nitrobenzene-d5		1.69	mg/Kg	1	2.67	63	11.3 - 116
2-Fluorobiphenyl		2.15	mg/Kg	1	2.67	80	14.6 - 122
2,4,6-Tribromophenol		1.89	mg/Kg	1	2.67	71	13.8 - 123
Terphenyl-d14		2.29	mg/Kg	1	2.67	86	30.8 - 134

Method Blank (1) QC Batch: 32147

QC Batch:	32147	Date Analyzed:	2006-11-16	Analyzed By:	DS
Prep Batch:	28002	QC Preparation:	2006-11-14	Prepared By:	DS

Parameter	Flag	MDL Result	Units	RL
Pyridine		<0.0637	mg/Kg	0.25
n-Nitrosodimethylamine		<0.0307	mg/Kg	0.25
2-Picoline		<0.0698	mg/Kg	0.25
Methyl methanesulfonate		<0.0299	mg/Kg	0.25
Ethyl methanesulfonate		<0.0390	mg/Kg	0.25
Phenol		<0.0602	mg/Kg	0.25
Aniline		<0.0369	mg/Kg	0.25
bis(2-chloroethyl)ether		<0.0407	mg/Kg	0.25
2-Chlorophenol		<0.0923	mg/Kg	0.25
1,3-Dichlorobenzene (meta)		<0.0299	mg/Kg	0.25
1,4-Dichlorobenzene (para)		<0.0303	mg/Kg	0.25
Benzyl alcohol		<0.0618	mg/Kg	0.25
1,2-Dichlorobenzene (ortho)		<0.0308	mg/Kg	0.25
2-Methylphenol		<0.0504	mg/Kg	0.25
bis(2-chloroisopropyl)ether		<0.0272	mg/Kg	0.25

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
4-Methylphenol / 3-Methylphenol		<0.0349	mg/Kg	0.25
Acetophenone		<0.0422	mg/Kg	0.25
n-Nitrosodi-n-propylamine		<0.0480	mg/Kg	0.25
Hexachloroethane		<0.0522	mg/Kg	0.25
Nitrobenzene		<0.179	mg/Kg	0.25
n-Nitrosopiperidine		<0.0354	mg/Kg	0.25
Isophorone		<0.0802	mg/Kg	0.25
2-Nitrophenol		<0.0236	mg/Kg	0.25
2,4-Dimethylphenol		<0.0416	mg/Kg	0.25
bis(2-chloroethoxy)methane		<0.0490	mg/Kg	0.25
Benzoic acid		<0.137	mg/Kg	0.25
2,4-Dichlorophenol		<0.130	mg/Kg	0.25
1,2,4-Trichlorobenzene		<0.0297	mg/Kg	0.25
a,a-Dimethylphenethylamine		<0.0533	mg/Kg	0.25
Naphthalene		<0.0367	mg/Kg	0.25
4-Chloroaniline		<0.0492	mg/Kg	0.25
2,6-Dichlorophenol		<0.0365	mg/Kg	0.25
Hexachlorobutadiene		<0.0364	mg/Kg	0.25
n-Nitroso-di-n-butylamine		<0.0512	mg/Kg	0.25
4-Chloro-3-methylphenol		<0.0474	mg/Kg	0.25
1-Methylnaphthalene		<0.0417	mg/Kg	0.25
2-Methylnaphthalene		<0.0339	mg/Kg	0.25
1,2,4,5-Tetrachlorobenzene		<0.0300	mg/Kg	0.25
Hexachlorocyclopentadiene		<0.0352	mg/Kg	0.25
2,4,6-Trichlorophenol		<0.0336	mg/Kg	0.25
2,4,5-Trichlorophenol		<0.0403	mg/Kg	0.25
2-Chloronaphthalene		<0.0266	mg/Kg	0.25
1-Chloronaphthalene		<0.0263	mg/Kg	0.25
2-Nitroaniline		<0.0290	mg/Kg	0.25
Dimethylphthalate		<0.0290	mg/Kg	0.25
Acenaphthylene		<0.0651	mg/Kg	0.25
2,6-Dinitrotoluene		<0.0535	mg/Kg	0.25
3-Nitroaniline		<0.0421	mg/Kg	0.25
Acenaphthene		<0.0745	mg/Kg	0.25
2,4-Dinitrophenol		<0.0860	mg/Kg	0.25
Dibenzofuran		<0.0274	mg/Kg	0.25
Pentachlorobenzene		<0.0396	mg/Kg	0.25
4-Nitrophenol		<0.169	mg/Kg	0.25
1-Naphthylamine		<0.0304	mg/Kg	0.25
2,4-Dinitrotoluene		<0.0609	mg/Kg	0.25
2-Naphthylamine		<0.153	mg/Kg	0.25
2,3,4,6-Tetrachlorophenol		<0.0404	mg/Kg	0.25
Fluorene		<0.0435	mg/Kg	0.25
Diethylphthalate		<0.0402	mg/Kg	0.25
4-Chlorophenyl-phenylether		<0.0345	mg/Kg	0.25
4-Nitroaniline		<0.0176	mg/Kg	0.25
4,6-Dinitro-2-methylphenol		<0.330	mg/Kg	0.25
Diphenylamine		<0.0471	mg/Kg	0.25
Diphenylhydrazine		<0.0641	mg/Kg	0.25
4-Bromophenyl-phenylether		<0.0310	mg/Kg	0.25

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
Phenacetin		<0.0344	mg/Kg	0.25
Hexachlorobenzene		<0.0306	mg/Kg	0.25
4-Aminobiphenyl		<0.128	mg/Kg	0.25
Pentachlorophenol		<0.151	mg/Kg	0.25
Pentachloronitrobenzene		<0.0775	mg/Kg	0.25
Pronamide		<0.0265	mg/Kg	0.25
Phenanthrene		<0.0737	mg/Kg	0.25
Anthracene		<0.0378	mg/Kg	0.25
Di-n-butylphthalate		0.0389	mg/Kg	0.25
Fluoranthene		<0.0346	mg/Kg	0.25
Benzidine		<1.14	mg/Kg	2.5
Pyrene		<0.151	mg/Kg	0.25
p-Dimethylaminoazobenzene		<0.0298	mg/Kg	0.25
Butylbenzylphthalate		<0.0589	mg/Kg	0.25
Benzo(a)anthracene		<0.0449	mg/Kg	0.25
3,3-Dichlorobenzidine		<0.162	mg/Kg	0.25
Chrysene		<0.0357	mg/Kg	0.25
bis(2-ethylhexyl)phthalate		<0.0805	mg/Kg	0.25
Di-n-octylphthalate		<0.0394	mg/Kg	0.25
Benzo(b)fluoranthene		<0.0644	mg/Kg	0.25
7,12-Dimethylbenz(a)anthracene		<0.0356	mg/Kg	0.25
Benzo(k)fluoranthene		<0.0464	mg/Kg	0.25
Benzo(a)pyrene		<0.0349	mg/Kg	0.25
3-Methylcholanthrene		<0.0741	mg/Kg	0.25
Dibenzo(a,j)acridine		<0.0290	mg/Kg	0.25
Indeno(1,2,3-cd)pyrene		<0.0287	mg/Kg	0.25
Dibenzo(a,h)anthracene		<0.0448	mg/Kg	0.25
Benzo(g,h,i)perylene		<0.0276	mg/Kg	0.25
2-Butoxy Ethanol		<0.150	mg/Kg	0.25

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.23	mg/Kg	1	2.67	46	8.6 - 115
Phenol-d5		1.77	mg/Kg	1	2.67	66	6.3 - 124
Nitrobenzene-d5		1.84	mg/Kg	1	2.67	69	11.3 - 116
2-Fluorobiphenyl		2.69	mg/Kg	1	2.67	101	14.6 - 122
2,4,6-Tribromophenol		1.79	mg/Kg	1	2.67	67	13.8 - 123
Terphenyl-d14		2.82	mg/Kg	1	2.67	106	30.8 - 134

Laboratory Control Spike (LCS-1)

QC Batch: 32147 Date Analyzed: 2006-11-16 Analyzed By: DS
Prep Batch: 28002 QC Preparation: 2006-11-14 Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	1.91	mg/Kg	1	2.67	<0.0602	72	10 - 125.6
2-Chlorophenol	2.16	mg/Kg	1	2.67	<0.0923	81	10 - 144

continued . . .

control spikes continued . . .

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,4-Dichlorobenzene (para)	2.11	mg/Kg	1	2.67	<0.0303	79	10 - 172
n-Nitrosodi-n-propylamine	1.20	mg/Kg	1	2.67	<0.0480	45	10 - 203
1,2,4-Trichlorobenzene	2.22	mg/Kg	1	2.67	<0.0297	83	10 - 176
4-Chloro-3-methylphenol	1.51	mg/Kg	1	2.67	<0.0474	56	10 - 168
Acenaphthene	2.39	mg/Kg	1	2.67	<0.0745	90	10 - 215
4-Nitrophenol	0.672	mg/Kg	1	2.67	<0.169	25	10 - 160
2,4-Dinitrotoluene	2.19	mg/Kg	1	2.67	<0.0609	82	10 - 226
Pentachlorophenol	2.35	mg/Kg	1	2.67	<0.151	88	10 - 187
Pyrene	2.78	mg/Kg	1	2.67	<0.151	104	10 - 248

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
Phenol	1.99	mg/Kg	1	2.67	<0.0602	74	10 - 125.6	4	20
2-Chlorophenol	2.25	mg/Kg	1	2.67	<0.0923	84	10 - 144	4	20
1,4-Dichlorobenzene (para)	2.27	mg/Kg	1	2.67	<0.0303	85	10 - 172	7	20
n-Nitrosodi-n-propylamine	1.20	mg/Kg	1	2.67	<0.0480	45	10 - 203	0	20
1,2,4-Trichlorobenzene	2.37	mg/Kg	1	2.67	<0.0297	89	10 - 176	6	20
4-Chloro-3-methylphenol	1.57	mg/Kg	1	2.67	<0.0474	59	10 - 168	4	20
Acenaphthene	2.54	mg/Kg	1	2.67	<0.0745	95	10 - 215	6	20
4-Nitrophenol	0.770	mg/Kg	1	2.67	<0.169	29	10 - 160	14	20
2,4-Dinitrotoluene	2.39	mg/Kg	1	2.67	<0.0609	90	10 - 226	9	20
Pentachlorophenol	2.68	mg/Kg	1	2.67	<0.151	100	10 - 187	13	20
Pyrene	2.87	mg/Kg	1	2.67	<0.151	107	10 - 248	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
2-Fluorophenol	1.65	1.77	mg/Kg	1	2.67	62	66	10 - 130.2
Phenol-d5	2.31	2.39	mg/Kg	1	2.67	86	90	10 - 133.4
Nitrobenzene-d5	2.33	2.46	mg/Kg	1	2.67	87	92	21 - 130.5
2-Fluorobiphenyl	3.06	3.25	mg/Kg	1	2.67	115	122	22 - 129.2
2,4,6-Tribromophenol	3.09	3.29	mg/Kg	1	2.67	116	123	41 - 149
Terphenyl-d14	3.36	3.49	mg/Kg	1	2.67	126	131	44.1 - 161

Matrix Spike (MS-1) Spiked Sample: 107647

QC Batch: 32147 Date Analyzed: 2006-11-16 Analyzed By: DS
Prep Batch: 28002 QC Preparation: 2006-11-14 Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	1.10	mg/Kg	1	2.67	<0.0602	41	10 - 109
2-Chlorophenol	1.47	mg/Kg	1	2.67	<0.0923	55	10 - 130
1,4-Dichlorobenzene (para)	1.73	mg/Kg	1	2.67	<0.0303	65	10 - 124
n-Nitrosodi-n-propylamine	1.29	mg/Kg	1	2.67	<0.0480	48	10 - 172
1,2,4-Trichlorobenzene	1.76	mg/Kg	1	2.67	<0.0297	66	10 - 136
4-Chloro-3-methylphenol	0.674	mg/Kg	1	2.67	<0.0474	25	10 - 121
Acenaphthene	1.85	mg/Kg	1	2.67	<0.0745	69	10 - 158

continued . . .

matrix spikes continued . . .

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
4-Nitrophenol	0.470	mg/Kg	1	2.67	<0.169	18	10 - 84
2,4-Dinitrotoluene	1.58	mg/Kg	1	2.67	<0.0609	59	10 - 126
Pentachlorophenol	0.760	mg/Kg	1	2.67	<0.151	28	10 - 143
Pyrene	2.13	mg/Kg	1	2.67	<0.151	80	10 - 174

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
Phenol	1.03	mg/Kg	1	2.67	<0.0602	38	10 - 109	7	20
2-Chlorophenol	1.36	mg/Kg	1	2.67	<0.0923	51	10 - 130	8	20
1,4-Dichlorobenzene (para)	1.69	mg/Kg	1	2.67	<0.0303	63	10 - 124	2	20
n-Nitrosodi-n-propylamine	1.18	mg/Kg	1	2.67	<0.0480	44	10 - 172	9	20
1,2,4-Trichlorobenzene	1.75	mg/Kg	1	2.67	<0.0297	66	10 - 136	1	20
4-Chloro-3-methylphenol	0.629	mg/Kg	1	2.67	<0.0474	24	10 - 121	7	20
Acenaphthene	1.80	mg/Kg	1	2.67	<0.0745	67	10 - 158	3	20
4-Nitrophenol	0.485	mg/Kg	1	2.67	<0.169	18	10 - 84	3	20
2,4-Dinitrotoluene	1.53	mg/Kg	1	2.67	<0.0609	57	10 - 126	3	20
Pentachlorophenol	0.848	mg/Kg	1	2.67	<0.151	32	10 - 143	11	20
Pyrene	2.06	mg/Kg	1	2.67	<0.151	77	10 - 174	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
2-Fluorophenol	0.850	0.820	mg/Kg	1	2.67	32	31	10 - 98.6
Phenol-d5	1.37	1.25	mg/Kg	1	2.67	51	47	10 - 103
Nitrobenzene-d5	1.61	1.61	mg/Kg	1	2.67	60	60	24 - 93.4
2-Fluorobiphenyl	2.23	2.20	mg/Kg	1	2.67	84	82	13.1 - 102
2,4,6-Tribromophenol	1.66	1.65	mg/Kg	1	2.67	62	62	21.5 - 112
Terphenyl-d14	2.38	2.29	mg/Kg	1	2.67	89	86	24.3 - 121

Standard (CCV-1)

QC Batch: 32147 Date Analyzed: 2006-11-16 Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/Kg	60.0	49.1	82	80 - 120	2006-11-16
1,4-Dichlorobenzene (para)		mg/Kg	60.0	59.1	98	80 - 120	2006-11-16
2-Nitrophenol		mg/Kg	60.0	53.9	90	80 - 120	2006-11-16
2,4-Dichlorophenol		mg/Kg	60.0	51.2	85	80 - 120	2006-11-16
Hexachlorobutadiene	[1]	mg/Kg	60.0	72.8	121	80 - 120	2006-11-16
4-Chloro-3-methylphenol		mg/Kg	60.0	54.5	91	80 - 120	2006-11-16
2,4,6-Trichlorophenol		mg/Kg	60.0	58.4	97	80 - 120	2006-11-16
Acenaphthene		mg/Kg	60.0	60.8	101	80 - 120	2006-11-16
Diphenylamine		mg/Kg	60.0	61.6	103	80 - 120	2006-11-16
Pentachlorophenol		mg/Kg	60.0	70.7	118	80 - 120	2006-11-16

continued . . .

[1] Hexachlorobutadiene outside of control limits on CCV(ICV). CCV(ICV) component average is 99.7% which is within acceptable range. This is acceptable by Method 8000.

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoranthene		mg/Kg	60.0	62.9	105	80 - 120	2006-11-16
Di-n-octylphthalate		mg/Kg	60.0	59.9	100	80 - 120	2006-11-16
Benzo(a)pyrene		mg/Kg	60.0	60.7	101	80 - 120	2006-11-16

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		51.9	mg/Kg	1	60.0	86	80 - 120
Phenol-d5		49.8	mg/Kg	1	60.0	83	80 - 120
Nitrobenzene-d5		58.0	mg/Kg	1	60.0	97	80 - 120
2-Fluorobiphenyl		56.6	mg/Kg	1	60.0	94	80 - 120
2,4,6-Tribromophenol	2	76.8	mg/Kg	1	60.0	128	80 - 120
Terphenyl-d14		67.9	mg/Kg	1	60.0	113	80 - 120

Standard (CCV-2)

QC Batch: 32147 Date Analyzed: 2006-11-16 Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol	3	mg/Kg	60.0	45.2	75	80 - 120	2006-11-16
1,4-Dichlorobenzene (para)		mg/Kg	60.0	60.4	101	80 - 120	2006-11-16
2-Nitrophenol		mg/Kg	60.0	54.0	90	80 - 120	2006-11-16
2,4-Dichlorophenol		mg/Kg	60.0	49.1	82	80 - 120	2006-11-16
Hexachlorobutadiene	4	mg/Kg	60.0	73.9	123	80 - 120	2006-11-16
4-Chloro-3-methylphenol		mg/Kg	60.0	53.6	89	80 - 120	2006-11-16
2,4,6-Trichlorophenol		mg/Kg	60.0	59.0	98	80 - 120	2006-11-16
Acenaphthene		mg/Kg	60.0	61.0	102	80 - 120	2006-11-16
Diphenylamine		mg/Kg	60.0	61.0	102	80 - 120	2006-11-16
Pentachlorophenol		mg/Kg	60.0	69.2	115	80 - 120	2006-11-16
Fluoranthene		mg/Kg	60.0	63.7	106	80 - 120	2006-11-16
Di-n-octylphthalate		mg/Kg	60.0	64.5	108	80 - 120	2006-11-16
Benzo(a)pyrene		mg/Kg	60.0	60.6	101	80 - 120	2006-11-16

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		50.8	mg/Kg	1	60.0	85	80 - 120
Phenol-d5	5	45.0	mg/Kg	1	60.0	75	80 - 120
Nitrobenzene-d5		57.6	mg/Kg	1	60.0	96	80 - 120
2-Fluorobiphenyl		57.0	mg/Kg	1	60.0	95	80 - 120
2,4,6-Tribromophenol	6	75.3	mg/Kg	1	60.0	126	80 - 120
Terphenyl-d14		69.8	mg/Kg	1	60.0	116	80 - 120

[2] 2,4,6-Tribromophenol outside of control limits on CCV(ICV). CCV(ICV) component average is 99.7% which is within acceptable range. This is acceptable by Method 8000.

[3] Phenol outside of control limits on CCV(ICV). CCV(ICV) component average is 99.2% which is within acceptable range. This is acceptable by Method 8000.

[4] Hexachlorobutadiene outside of control limits on CCV(ICV). CCV(ICV) component average is 99.2% which is within acceptable range. This is acceptable by Method 8000.

[5] Phenol-d5 outside of control limits on CCV(ICV). CCV(ICV) component average is 99.2% which is within acceptable range. This is acceptable by Method 8000.

[6] 2,4,6-Tribromophenol outside of control limits on CCV(ICV). CCV(ICV) component average is 99.2% which is within acceptable range. This is acceptable by Method 8000.

Analytical and Quality Control Report

William Little
WTS
P.O. Box 363
Building 126 3RD Floor
WSMR, NM, 88002

Report Date: December 5, 2006

Work Order: 6110313

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
107647	HLSF-0085-SB-034(10.0-11.0)	soil	2006-10-31	08:30	2006-11-01
107648	HLSF-0085-SB-034(20.0-21.0)	soil	2006-10-31	08:50	2006-11-01
107649	HLSF-0085-SB-034(30.0-31.0)	soil	2006-10-31	09:20	2006-11-01
107650	HLSF-0085-SB-034(40.0-41.0)	soil	2006-10-31	09:55	2006-11-01
107651	HLSF-0085-SB-034(49.0-50.0)	soil	2006-10-31	10:35	2006-11-01
107652	HLSF-0085-SB-033(10.0-11.0)	soil	2006-10-31	13:20	2006-11-01
107653	HLSF-0085-SB-033(20.0-21.0)	soil	2006-10-31	13:45	2006-11-01
107654	HLSF-0085-SB-033(30.0-31.0)	soil	2006-10-31	14:20	2006-11-01
107655	HLSF-0085-SB-033(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107656	HLSF-0085-SB-133(40.0-42.0)	soil	2006-10-31	14:50	2006-11-01
107657	HLSF-0085-SB-033(49.0-50.0)	soil	2006-10-31	15:25	2006-11-01

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: 107647 - HLSF-0085-SB-034(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107648 - HLSF-0085-SB-034(20.0-21.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107649 - HLSF-0085-SB-034(30.0-31.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107650 - HLSF-0085-SB-034(40.0-41.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107651 - HLSF-0085-SB-034(49.0-50.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107652 - HLSF-0085-SB-033(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107653 - HLSF-0085-SB-033(20.0-21.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107654 - HLSF-0085-SB-033(30.0-31.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107655 - HLSF-0085-SB-033(40.0-42.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107656 - HLSF-0085-SB-133(40.0-42.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Sample: 107657 - HLSF-0085-SB-033(49.0-50.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32185	Date Analyzed:	2006-11-17	Analyzed By:	SM
Prep Batch:	27864	Sample Preparation:	2006-11-16	Prepared By:	SM

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

Method Blank (1) QC Batch: 32185

QC Batch:	32185	Date Analyzed:	2006-11-17	Analyzed By:	SM
Prep Batch:	27864	QC Preparation:	2006-11-16	Prepared By:	WB

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

Method Blank (1) QC Batch: 32267

QC Batch:	32267	Date Analyzed:	2006-11-16	Analyzed By:	WB
Prep Batch:	27863	QC Preparation:	2006-11-16	Prepared By:	WB

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

Laboratory Control Spike (LCS-1)

QC Batch:	32185	Date Analyzed:	2006-11-17	Analyzed By:	SM
Prep Batch:	27864	QC Preparation:	2006-11-16	Prepared By:	WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	31.5	mg/Kg	1	40.0	<2.32	79	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	32.5	mg/Kg	1	40.0	<2.32	81	77.3 - 119	3	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: 32267 Date Analyzed: 2006-11-16 Analyzed By: WB
Prep Batch: 27863 QC Preparation: 2006-11-16 Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	38.9	mg/Kg	1	40.0	<2.32	97	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	39.1	mg/Kg	1	40.0	<2.32	98	77.3 - 119	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: 107961

QC Batch: 32185 Date Analyzed: 2006-11-17 Analyzed By: SM
Prep Batch: 27864 QC Preparation: 2006-11-16 Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium [1]	32.9	mg/Kg	1	40.0	<2.32	82	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	40.7	mg/Kg	1	40.0	<2.32	102	85 - 115	21	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: 107656

QC Batch: 32267 Date Analyzed: 2006-11-16 Analyzed By: WB
Prep Batch: 27863 QC Preparation: 2006-11-16 Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium [2]	32.9	mg/Kg	1	40.0	<2.32	82	85 - 115

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

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Hexavalent Chromium	[3]	32.8	mg/Kg	1	40.0	<2.32	82	85 - 115	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: 32185 Date Analyzed: 2006-11-17 Analyzed By: SM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.500	0.494	99	85 - 115	2006-11-17

Standard (CCV-1)

QC Batch: 32185 Date Analyzed: 2006-11-17 Analyzed By: SM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.500	0.532	106	85 - 115	2006-11-17

Standard (ICV-1)

QC Batch: 32267 Date Analyzed: 2006-11-16 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	0.513	103	85 - 115	2006-11-16

Standard (CCV-1)

QC Batch: 32267 Date Analyzed: 2006-11-16 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	0.513	103	85 - 115	2006-11-16

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