Analytical and Quality Control Report

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

Report Date: December 28, 2006

Work Order: 6101906

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
106218	HLSF-0085-SB-007(0.5-1.0)	soil	2006-10-17	09:40	2006-10-18
106219	HLSF-0085-SB-007(10.0-11.0)	soil	2006-10-17	10:05	2006-10-18
106220	HLSF-0085-SB-007(20.0-21.0)	soil	2006-10-17	10:20	2006-10-18
106221	HLSF-0085-SB-007(30.0-31.0)	soil	2006-10-17	11:00	2006-10-18
106222	HLSF-0085-SB-007(40.0-41.0)	soil	2006-10-17	11:25	2006-10-18
106223	HLSF-0085-SB-007(49.0-50.0)	soil	2006-10-17	12:00	2006-10-18
106224	HLSF-0085-SB-008(0.5-1.0)	soil	2006-10-17	14:00	2006-10-18
106225	HLSF-0085-SB-008(10.0-11.0)	soil	2006-10-17	14:45	2006-10-18
106226	HLSF-0085-SB-008(20.0-21.0)	soil	2006-10-17	15:20	2006-10-18
106227	HLSF-0085-SB-008(30.0-31.0)	soil	2006-10-17	15:50	2006-10-18

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Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 106218 - HLSF-0085-SB-007(0.5-1.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27316	Sample Preparation:	2006-10-25	Prepared By:	WB

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

Sample: 106219 - HLSF-0085-SB-007(10.0-11.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27316	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	Result	RL Units	Dilution	RL
FOC		**5.30**	%	1	0.00

Sample: 106220 - HLSF-0085-SB-007(20.0-21.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27316	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	Result	RL Units	Dilution	RL
FOC		**5.08**	%	1	0.00

Sample: 106221 - HLSF-0085-SB-007(30.0-31.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27316	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	Result	RL Units	Dilution	RL
FOC		**4.85**	%	1	0.00

Sample: 106222 - HLSF-0085-SB-007(40.0-41.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27316	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**6.06**	%	1	0.00

Sample: 106223 - HLSF-0085-SB-007(49.0-50.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27316	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**3.26**	%	1	0.00

Sample: 106224 - HLSF-0085-SB-008(0.5-1.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27316	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**3.00**	%	1	0.00

Sample: 106225 - HLSF-0085-SB-008(10.0-11.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27317	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**5.27**	%	1	0.00

Sample: 106226 - HLSF-0085-SB-008(20.0-21.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27317	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**5.60**	%	1	0.00

Sample: 106227 - HLSF-0085-SB-008(30.0-31.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27317	Sample Preparation:	2006-10-25	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**3.84**	%	1	0.00

Duplicates (1)

QC Batch:	31395	Date Analyzed:	2006-10-27	Analyzed By:	SM
Prep Batch:	27316	QC Preparation:	2006-10-25	Prepared By:	SM

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
FOC	4.95	5.08	%	1	3	34

Analytical and Quality Control Report

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106220	HLSF-0085-SB-007(20.0-21.0)	soil	2006-10-17	10:20	2006-10-18
106221	HLSF-0085-SB-007(30.0-31.0)	soil	2006-10-17	11:00	2006-10-18
106222	HLSF-0085-SB-007(40.0-41.0)	soil	2006-10-17	11:25	2006-10-18
106223	HLSF-0085-SB-007(49.0-50.0)	soil	2006-10-17	12:00	2006-10-18
106224	HLSF-0085-SB-008(0.5-1.0)	soil	2006-10-17	14:00	2006-10-18
106225	HLSF-0085-SB-008(10.0-11.0)	soil	2006-10-17	14:45	2006-10-18
106226	HLSF-0085-SB-008(20.0-21.0)	soil	2006-10-17	15:20	2006-10-18
106227	HLSF-0085-SB-008(30.0-31.0)	soil	2006-10-17	15:50	2006-10-18

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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: 106218 - HLSF-0085-SB-007(0.5-1.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31338	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27158	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106219 - HLSF-0085-SB-007(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31338	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27158	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106220 - HLSF-0085-SB-007(20.0-21.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31338	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27158	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106221 - HLSF-0085-SB-007(30.0-31.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31338	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27158	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106222 - HLSF-0085-SB-007(40.0-41.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31339	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27159	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106223 - HLSF-0085-SB-007(49.0-50.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31339	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27159	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106224 - HLSF-0085-SB-008(0.5-1.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31339	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27159	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106225 - HLSF-0085-SB-008(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31339	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27159	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106226 - HLSF-0085-SB-008(20.0-21.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31339	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27159	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Sample: 106227 - HLSF-0085-SB-008(30.0-31.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	31339	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27159	Sample Preparation:	2006-10-23	Prepared By:	WB

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

Method Blank (1) QC Batch: 31338

QC Batch:	31338	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27158	QC Preparation:	2006-10-23	Prepared By:	WB

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

Method Blank (1) QC Batch: 31339

QC Batch:	31339	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27159	QC Preparation:	2006-10-23	Prepared By:	WB

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

Laboratory Control Spike (LCS-1)

QC Batch:	31338	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27158	QC Preparation:	2006-10-23	Prepared By:	WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	31.7	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	32.2	mg/Kg	1	40.0	<2.32	80	77.3 - 119	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch:	31339	Date Analyzed:	2006-10-23	Analyzed By:	WB
Prep Batch:	27159	QC Preparation:	2006-10-23	Prepared By:	WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	31.8	mg/Kg	1	40.0	<2.32	80	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	31.1	mg/Kg	1	40.0	<2.32	78	77.3 - 119	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: 106221

QC Batch: 31338
Prep Batch: 27158
Date Analyzed: 2006-10-23
QC Preparation: 2006-10-23
Analyzed By: WB
Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium [1]	30.1	mg/Kg	1	40.0	<2.32	75	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 [2]	27.9	mg/Kg	1	40.0	<2.32	70	85 - 115	8	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: 106628

QC Batch: 31339
Prep Batch: 27159
Date Analyzed: 2006-10-23
QC Preparation: 2006-10-23
Analyzed By: WB
Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium [3]	28.7	mg/Kg	1	40.0	<2.32	72	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 [4]	26.8	mg/Kg	1	40.0	<2.32	67	85 - 115	7	20

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

Standard (ICV-1)

QC Batch: 31338
Date Analyzed: 2006-10-23
Analyzed By: WB

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

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.500	0.479	96	85 - 115	2006-10-23

Standard (CCV-1)

QC Batch: 31338 Date Analyzed: 2006-10-23 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	0.485	97	85 - 115	2006-10-23

Standard (ICV-1)

QC Batch: 31339 Date Analyzed: 2006-10-23 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	0.483	97	85 - 115	2006-10-23

Standard (CCV-1)

QC Batch: 31339 Date Analyzed: 2006-10-23 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	0.485	97	85 - 115	2006-10-23

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106220	HLSF-0085-SB-007(20.0-21.0)	soil	2006-10-17	10:20	2006-10-18
106221	HLSF-0085-SB-007(30.0-31.0)	soil	2006-10-17	11:00	2006-10-18
106222	HLSF-0085-SB-007(40.0-41.0)	soil	2006-10-17	11:25	2006-10-18
106223	HLSF-0085-SB-007(49.0-50.0)	soil	2006-10-17	12:00	2006-10-18
106224	HLSF-0085-SB-008(0.5-1.0)	soil	2006-10-17	14:00	2006-10-18
106225	HLSF-0085-SB-008(10.0-11.0)	soil	2006-10-17	14:45	2006-10-18
106226	HLSF-0085-SB-008(20.0-21.0)	soil	2006-10-17	15:20	2006-10-18
106227	HLSF-0085-SB-008(30.0-31.0)	soil	2006-10-17	15:50	2006-10-18

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Analytical Report

Sample: 106218 - HLSF-0085-SB-007(0.5-1.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31626	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27540	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	Result	RL Units	Dilution	RL
Nitrate and Nitrite as N		**15.4**	mg/Kg	50	0.100

Sample: 106219 - HLSF-0085-SB-007(10.0-11.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31626	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27540	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	Result	RL Units	Dilution	RL
Nitrate and Nitrite as N		**1.56**	mg/Kg	5	0.100

Sample: 106220 - HLSF-0085-SB-007(20.0-21.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31626	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27540	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	Result	RL Units	Dilution	RL
Nitrate and Nitrite as N		**1.22**	mg/Kg	5	0.100

Sample: 106221 - HLSF-0085-SB-007(30.0-31.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31626	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27540	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	Result	RL Units	Dilution	RL
Nitrate and Nitrite as N		**1.23**	mg/Kg	5	0.100

Sample: 106222 - HLSF-0085-SB-007(40.0-41.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31626	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27540	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**1.94**	mg/Kg	10	0.100

Sample: 106223 - HLSF-0085-SB-007(49.0-50.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31625	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27539	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**3.82**	mg/Kg	25	0.100

Sample: 106224 - HLSF-0085-SB-008(0.5-1.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31625	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27539	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**1.26**	mg/Kg	5	0.100

Sample: 106225 - HLSF-0085-SB-008(10.0-11.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31817	Date Analyzed:	2006-11-09	Analyzed By:	JS
Prep Batch:	27709	Sample Preparation:	2006-11-08	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**0.579**	mg/Kg	2	0.100

Sample: 106226 - HLSF-0085-SB-008(20.0-21.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31625	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27539	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**1.90**	mg/Kg	10	0.100

Sample: 106227 - HLSF-0085-SB-008(30.0-31.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	31625	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27539	Sample Preparation:	2006-11-01	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**2.16**	mg/Kg	10	0.100

Method Blank (1) QC Batch: 31625

QC Batch:	31625	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27539	QC Preparation:	2006-10-31	Prepared By:	JS

Parameter	Flag	MDL Result	Units	RL
Nitrate and Nitrite as N		< 0.1	mg/Kg	0.1

Method Blank (1) QC Batch: 31626

QC Batch:	31626	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27540	QC Preparation:	2006-10-31	Prepared By:	JS

Parameter	Flag	MDL Result	Units	RL
Nitrate and Nitrite as N		< 0.1	mg/Kg	0.1

Method Blank (1) QC Batch: 31817

QC Batch:	31817	Date Analyzed:	2006-11-09	Analyzed By:	JS
Prep Batch:	27709	QC Preparation:	2006-11-08	Prepared By:	JS

Parameter	Flag	MDL Result	Units	RL
Nitrate and Nitrite as N		< 0.10	mg/Kg	0.1

Laboratory Control Spike (LCS-1)

QC Batch:	31625	Date Analyzed:	2006-11-01	Analyzed By:	WB
Prep Batch:	27539	QC Preparation:	2006-10-31	Prepared By:	JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate and Nitrite as N	0.177	mg/Kg	1	0.160	<0.0155	111	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
Nitrate and Nitrite as N	0.178	mg/Kg	1	0.160	<0.0155	111	85 - 115	1	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: 31626 Date Analyzed: 2006-11-01 Analyzed By: WB
Prep Batch: 27540 QC Preparation: 2006-10-31 Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate and Nitrite as N	0.159	mg/Kg	1	0.160	<0.0155	99	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
Nitrate and Nitrite as N	0.179	mg/Kg	1	0.160	<0.0155	112	85 - 115	12	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: 31817 Date Analyzed: 2006-11-09 Analyzed By: JS
Prep Batch: 27709 QC Preparation: 2006-11-08 Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate and Nitrite as N	0.160	mg/Kg	1	0.160	<0.0155	100	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
Nitrate and Nitrite as N	0.175	mg/Kg	1	0.160	<0.0155	109	85 - 115	9	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: 106714

QC Batch: 31625 Date Analyzed: 2006-11-01 Analyzed By: WB
Prep Batch: 27539 QC Preparation: 2006-10-31 Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate and Nitrite as N [1]	131	mg/Kg	500	80.0	157	-32	85 - 115

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

continued . . .

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

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
Nitrate and Nitrite as N [2]	119	mg/Kg	500	80.0	157	-46	85 - 115	10	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: 106713

QC Batch: 31626 Date Analyzed: 2006-11-01 Analyzed By: WB
Prep Batch: 27540 QC Preparation: 2006-10-31 Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate and Nitrite as N [3]	0.574	mg/Kg	2	0.320	0.578	-1	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
Nitrate and Nitrite as N [4]	0.552	mg/Kg	2	0.320	0.578	-8	85 - 115	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: 107951

QC Batch: 31817 Date Analyzed: 2006-11-09 Analyzed By: JS
Prep Batch: 27709 QC Preparation: 2006-11-08 Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate and Nitrite as N [5]	1.18	mg/Kg	2	0.320	0.42	238	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
Nitrate and Nitrite as N [6]	1.14	mg/Kg	2	0.00	0.42	225	85 - 115	3	20

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

Standard (ICV-1)

QC Batch: 31625 Date Analyzed: 2006-11-01 Analyzed By: WB

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

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate and Nitrite as N		mg/Kg	0.160	0.178	111	85 - 115	2006-11-01

Standard (CCV-1)

QC Batch: 31625 Date Analyzed: 2006-11-01 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate and Nitrite as N		mg/Kg	0.160	0.182	114	85 - 115	2006-11-01

Standard (ICV-1)

QC Batch: 31626 Date Analyzed: 2006-11-01 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate and Nitrite as N		mg/Kg	0.160	0.148	92	85 - 115	2006-11-01

Standard (CCV-1)

QC Batch: 31626 Date Analyzed: 2006-11-01 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate and Nitrite as N		mg/Kg	0.160	0.144	90	85 - 115	2006-11-01

Standard (ICV-1)

QC Batch: 31817 Date Analyzed: 2006-11-09 Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate and Nitrite as N		mg/Kg	0.160	0.179	112	85 - 115	2006-11-09

Standard (CCV-1)

QC Batch: 31817 Date Analyzed: 2006-11-09 Analyzed By: JS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate and Nitrite as N		mg/Kg	0.160	0.170	106	85 - 115	2006-11-09

Analytical and Quality Control Report

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

Report Date: December 28, 2006

Work Order: 6101906

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
106218	HLSF-0085-SB-007(0.5-1.0)	soil	2006-10-17	09:40	2006-10-18
106219	HLSF-0085-SB-007(10.0-11.0)	soil	2006-10-17	10:05	2006-10-18
106220	HLSF-0085-SB-007(20.0-21.0)	soil	2006-10-17	10:20	2006-10-18
106221	HLSF-0085-SB-007(30.0-31.0)	soil	2006-10-17	11:00	2006-10-18
106222	HLSF-0085-SB-007(40.0-41.0)	soil	2006-10-17	11:25	2006-10-18
106223	HLSF-0085-SB-007(49.0-50.0)	soil	2006-10-17	12:00	2006-10-18
106224	HLSF-0085-SB-008(0.5-1.0)	soil	2006-10-17	14:00	2006-10-18
106225	HLSF-0085-SB-008(10.0-11.0)	soil	2006-10-17	14:45	2006-10-18
106226	HLSF-0085-SB-008(20.0-21.0)	soil	2006-10-17	15:20	2006-10-18
106227	HLSF-0085-SB-008(30.0-31.0)	soil	2006-10-17	15:50	2006-10-18

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 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 106218 - HLSF-0085-SB-007(0.5-1.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

Parameter	Flag	Result	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		1.16	mg/Kg	1	2.67	43	8.6 - 115
Phenol-d5		1.38	mg/Kg	1	2.67	52	6.3 - 124
Nitrobenzene-d5		1.31	mg/Kg	1	2.67	49	11.3 - 116
2-Fluorobiphenyl		1.84	mg/Kg	1	2.67	69	14.6 - 122
2,4,6-Tribromophenol		2.12	mg/Kg	1	2.67	79	13.8 - 123
Terphenyl-d14		2.97	mg/Kg	1	2.67	111	30.8 - 134

Sample: 106219 - HLSF-0085-SB-007(10.0-11.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

Parameter	Flag	Result	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		1.23	mg/Kg	1	2.67	46	8.6 - 115
Phenol-d5		1.53	mg/Kg	1	2.67	57	6.3 - 124
Nitrobenzene-d5		1.41	mg/Kg	1	2.67	53	11.3 - 116
2-Fluorobiphenyl		2.00	mg/Kg	1	2.67	75	14.6 - 122
2,4,6-Tribromophenol		2.01	mg/Kg	1	2.67	75	13.8 - 123
Terphenyl-d14		3.09	mg/Kg	1	2.67	116	30.8 - 134

Sample: 106220 - HLSF-0085-SB-007(20.0-21.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

Parameter	Flag	Result	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		1.44	mg/Kg	1	2.67	54	8.6 - 115
Phenol-d5		1.53	mg/Kg	1	2.67	57	6.3 - 124
Nitrobenzene-d5		1.49	mg/Kg	1	2.67	56	11.3 - 116
2-Fluorobiphenyl		2.05	mg/Kg	1	2.67	77	14.6 - 122
2,4,6-Tribromophenol		2.43	mg/Kg	1	2.67	91	13.8 - 123
Terphenyl-d14		3.08	mg/Kg	1	2.67	115	30.8 - 134

Sample: 106221 - HLSF-0085-SB-007(30.0-31.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

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		1.21	mg/Kg	1	2.67	45	8.6 - 115
Phenol-d5		1.63	mg/Kg	1	2.67	61	6.3 - 124
Nitrobenzene-d5		1.55	mg/Kg	1	2.67	58	11.3 - 116
2-Fluorobiphenyl		2.13	mg/Kg	1	2.67	80	14.6 - 122
2,4,6-Tribromophenol		2.03	mg/Kg	1	2.67	76	13.8 - 123
Terphenyl-d14		2.72	mg/Kg	1	2.67	102	30.8 - 134

Sample: 106222 - HLSF-0085-SB-007(40.0-41.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

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		1.10	mg/Kg	1	2.67	41	8.6 - 115
Phenol-d5		1.28	mg/Kg	1	2.67	48	6.3 - 124
Nitrobenzene-d5		1.30	mg/Kg	1	2.67	49	11.3 - 116
2-Fluorobiphenyl		1.71	mg/Kg	1	2.67	64	14.6 - 122
2,4,6-Tribromophenol		1.97	mg/Kg	1	2.67	74	13.8 - 123
Terphenyl-d14		2.26	mg/Kg	1	2.67	85	30.8 - 134

Sample: 106223 - HLSF-0085-SB-007(49.0-50.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

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		1.38	mg/Kg	1	2.67	52	8.6 - 115
Phenol-d5		1.56	mg/Kg	1	2.67	58	6.3 - 124
Nitrobenzene-d5		1.48	mg/Kg	1	2.67	55	11.3 - 116
2-Fluorobiphenyl		2.00	mg/Kg	1	2.67	75	14.6 - 122
2,4,6-Tribromophenol		2.14	mg/Kg	1	2.67	80	13.8 - 123
Terphenyl-d14		3.09	mg/Kg	1	2.67	116	30.8 - 134

Sample: 106224 - HLSF-0085-SB-008(0.5-1.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

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		1.31	mg/Kg	1	2.67	49	8.6 - 115
Phenol-d5		1.33	mg/Kg	1	2.67	50	6.3 - 124
Nitrobenzene-d5		1.32	mg/Kg	1	2.67	49	11.3 - 116
2-Fluorobiphenyl		1.80	mg/Kg	1	2.67	67	14.6 - 122
2,4,6-Tribromophenol		1.76	mg/Kg	1	2.67	66	13.8 - 123
Terphenyl-d14		2.64	mg/Kg	1	2.67	99	30.8 - 134

Sample: 106225 - HLSF-0085-SB-008(10.0-11.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

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		1.27	mg/Kg	1	2.67	48	8.6 - 115

continued . . .

sample continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Phenol-d5		1.52	mg/Kg	1	2.67	57	6.3 - 124
Nitrobenzene-d5		1.47	mg/Kg	1	2.67	55	11.3 - 116
2-Fluorobiphenyl		2.05	mg/Kg	1	2.67	77	14.6 - 122
2,4,6-Tribromophenol		2.04	mg/Kg	1	2.67	76	13.8 - 123
Terphenyl-d14		3.09	mg/Kg	1	2.67	116	30.8 - 134

Sample: 106226 - HLSF-0085-SB-008(20.0-21.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

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		1.22	mg/Kg	1	2.67	46	8.6 - 115
Phenol-d5		1.70	mg/Kg	1	2.67	64	6.3 - 124
Nitrobenzene-d5		1.59	mg/Kg	1	2.67	60	11.3 - 116
2-Fluorobiphenyl		2.21	mg/Kg	1	2.67	83	14.6 - 122
2,4,6-Tribromophenol		2.12	mg/Kg	1	2.67	79	13.8 - 123
Terphenyl-d14		3.37	mg/Kg	1	2.67	126	30.8 - 134

Sample: 106227 - HLSF-0085-SB-008(30.0-31.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	32371	Date Analyzed:	2006-10-21	Analyzed By:	DS
Prep Batch:	28187	Sample Preparation:	2006-10-21	Prepared By:	DS

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		1.20	mg/Kg	1	2.67	45	8.6 - 115
Phenol-d5		1.52	mg/Kg	1	2.67	57	6.3 - 124
Nitrobenzene-d5		1.44	mg/Kg	1	2.67	54	11.3 - 116
2-Fluorobiphenyl		1.97	mg/Kg	1	2.67	74	14.6 - 122
2,4,6-Tribromophenol		1.99	mg/Kg	1	2.67	74	13.8 - 123
Terphenyl-d14		3.22	mg/Kg	1	2.67	120	30.8 - 134

Method Blank (1) QC Batch: 32371

QC Batch: 32371 Date Analyzed: 2006-10-21 Analyzed By: DS
Prep Batch: 28187 QC Preparation: 2006-10-21 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
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

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
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
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		<0.0300	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		1.64	mg/Kg	1	2.67	61	8.6 - 115
Phenol-d5		1.78	mg/Kg	1	2.67	67	6.3 - 124
Nitrobenzene-d5		1.62	mg/Kg	1	2.67	61	11.3 - 116
2-Fluorobiphenyl		2.23	mg/Kg	1	2.67	84	14.6 - 122
2,4,6-Tribromophenol		2.44	mg/Kg	1	2.67	91	13.8 - 123
Terphenyl-d14		3.17	mg/Kg	1	2.67	119	30.8 - 134

Laboratory Control Spike (LCS-1)

QC Batch: 32371 Date Analyzed: 2006-10-21 Analyzed By: DS
Prep Batch: 28187 QC Preparation: 2006-10-21 Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	1.46	mg/Kg	1	2.67	<0.0602	55	10 - 125.6
2-Chlorophenol	1.43	mg/Kg	1	2.67	<0.0923	54	10 - 144
1,4-Dichlorobenzene (para)	1.44	mg/Kg	1	2.67	<0.0303	54	10 - 172
n-Nitrosodi-n-propylamine	1.43	mg/Kg	1	2.67	<0.0480	54	10 - 203
1,2,4-Trichlorobenzene	1.41	mg/Kg	1	2.67	<0.0297	53	10 - 176
4-Chloro-3-methylphenol	1.29	mg/Kg	1	2.67	<0.0474	48	10 - 168
Acenaphthene	1.64	mg/Kg	1	2.67	<0.0745	61	10 - 215
4-Nitrophenol	0.495	mg/Kg	1	2.67	<0.169	18	10 - 160
2,4-Dinitrotoluene	1.64	mg/Kg	1	2.67	<0.0609	61	10 - 226
Pentachlorophenol	0.988	mg/Kg	1	2.67	<0.151	37	10 - 187
Pyrene	2.51	mg/Kg	1	2.67	<0.151	94	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	1.46	mg/Kg	1	2.67	<0.0602	55	10 - 125.6	0	20
2-Chlorophenol	1.43	mg/Kg	1	2.67	<0.0923	54	10 - 144	0	20
1,4-Dichlorobenzene (para)	1.42	mg/Kg	1	2.67	<0.0303	53	10 - 172	1	20
n-Nitrosodi-n-propylamine	1.48	mg/Kg	1	2.67	<0.0480	55	10 - 203	4	20
1,2,4-Trichlorobenzene	1.41	mg/Kg	1	2.67	<0.0297	53	10 - 176	0	20
4-Chloro-3-methylphenol	1.38	mg/Kg	1	2.67	<0.0474	52	10 - 168	7	20
Acenaphthene	1.63	mg/Kg	1	2.67	<0.0745	61	10 - 215	1	20
4-Nitrophenol	0.488	mg/Kg	1	2.67	<0.169	18	10 - 160	1	20
2,4-Dinitrotoluene	1.66	mg/Kg	1	2.67	<0.0609	62	10 - 226	1	20
Pentachlorophenol	1.03	mg/Kg	1	2.67	<0.151	38	10 - 187	4	20
Pyrene	2.50	mg/Kg	1	2.67	<0.151	94	10 - 248	0	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	1.22	1.20	mg/Kg	1	2.67	46	45	10 - 130.2
Phenol-d5	1.52	1.49	mg/Kg	1	2.67	57	56	10 - 133.4
Nitrobenzene-d5	1.28	1.33	mg/Kg	1	2.67	48	50	21 - 130.5
2-Fluorobiphenyl	1.86	1.82	mg/Kg	1	2.67	70	68	22 - 129.2
2,4,6-Tribromophenol	2.04	2.16	mg/Kg	1	2.67	76	81	41 - 149

continued . . .

control spikes continued . . .

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Terphenyl-d14	2.75	2.75	mg/Kg	1	2.67	103	103	44.1 - 161

Matrix Spike (MS-1) Spiked Sample: 106090

QC Batch: 32371 | Date Analyzed: 2006-10-21 | Analyzed By: DS
Prep Batch: 28187 | QC Preparation: 2006-10-21 | Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	1.41	mg/Kg	1	2.67	<0.0602	53	10 - 109
2-Chlorophenol	1.45	mg/Kg	1	2.67	<0.0923	54	10 - 130
1,4-Dichlorobenzene (para)	1.43	mg/Kg	1	2.67	<0.0303	54	10 - 124
n-Nitrosodi-n-propylamine	1.57	mg/Kg	1	2.67	<0.0480	59	10 - 172
1,2,4-Trichlorobenzene	1.54	mg/Kg	1	2.67	<0.0297	58	10 - 136
4-Chloro-3-methylphenol	1.34	mg/Kg	1	2.67	<0.0474	50	10 - 121
Acenaphthene	1.69	mg/Kg	1	2.67	<0.0745	63	10 - 158
4-Nitrophenol	0.483	mg/Kg	1	2.67	<0.169	18	10 - 84
2,4-Dinitrotoluene	1.52	mg/Kg	1	2.67	<0.0609	57	10 - 126
Pentachlorophenol	1.30	mg/Kg	1	2.67	<0.151	49	10 - 143
Pyrene	2.09	mg/Kg	1	2.67	<0.151	78	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	1.41	mg/Kg	1	2.67	<0.0602	53	10 - 109	0	20
2-Chlorophenol	1.38	mg/Kg	1	2.67	<0.0923	52	10 - 130	5	20
1,4-Dichlorobenzene (para)	1.37	mg/Kg	1	2.67	<0.0303	51	10 - 124	5	20
n-Nitrosodi-n-propylamine	1.54	mg/Kg	1	2.67	<0.0480	58	10 - 172	2	20
1,2,4-Trichlorobenzene	1.44	mg/Kg	1	2.67	<0.0297	54	10 - 136	7	20
4-Chloro-3-methylphenol	1.30	mg/Kg	1	2.67	<0.0474	49	10 - 121	3	20
Acenaphthene	1.61	mg/Kg	1	2.67	<0.0745	60	10 - 158	5	20
4-Nitrophenol	0.482	mg/Kg	1	2.67	<0.169	18	10 - 84	0	20
2,4-Dinitrotoluene	1.44	mg/Kg	1	2.67	<0.0609	54	10 - 126	6	20
Pentachlorophenol	1.31	mg/Kg	1	2.67	<0.151	49	10 - 143	1	20
Pyrene	2.04	mg/Kg	1	2.67	<0.151	76	10 - 174	2	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	0.990	1.04	mg/Kg	1	2.67	37	39	10 - 98.6
Phenol-d5	1.35	1.32	mg/Kg	1	2.67	50	49	10 - 103
Nitrobenzene-d5	1.46	1.41	mg/Kg	1	2.67	55	53	24 - 93.4
2-Fluorobiphenyl	1.88	1.79	mg/Kg	1	2.67	70	67	13.1 - 102
2,4,6-Tribromophenol	2.07	1.97	mg/Kg	1	2.67	78	74	21.5 - 112
Terphenyl-d14	2.28	2.20	mg/Kg	1	2.67	85	82	24.3 - 121

Standard (CCV-2)

QC Batch: 32371 | Date Analyzed: 2006-10-21 | 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	54.0	90	80 - 120	2006-10-21
1,4-Dichlorobenzene (para)		mg/Kg	60.0	61.2	102	80 - 120	2006-10-21
2-Nitrophenol		mg/Kg	60.0	54.8	91	80 - 120	2006-10-21
2,4-Dichlorophenol		mg/Kg	60.0	50.4	84	80 - 120	2006-10-21
Hexachlorobutadiene		mg/Kg	60.0	68.2	114	80 - 120	2006-10-21
4-Chloro-3-methylphenol		mg/Kg	60.0	52.4	87	80 - 120	2006-10-21
2,4,6-Trichlorophenol		mg/Kg	60.0	57.1	95	80 - 120	2006-10-21
Acenaphthene		mg/Kg	60.0	60.9	102	80 - 120	2006-10-21
Diphenylamine		mg/Kg	60.0	58.4	97	80 - 120	2006-10-21
Pentachlorophenol		mg/Kg	60.0	64.1	107	80 - 120	2006-10-21
Fluoranthene		mg/Kg	60.0	62.7	104	80 - 120	2006-10-21
Di-n-octylphthalate		mg/Kg	60.0	61.0	102	80 - 120	2006-10-21
Benzo(a)pyrene		mg/Kg	60.0	60.6	101	80 - 120	2006-10-21

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		51.7	mg/Kg	1	60.0	86	80 - 120
Phenol-d5		53.2	mg/Kg	1	60.0	89	80 - 120
Nitrobenzene-d5		57.3	mg/Kg	1	60.0	96	80 - 120
2-Fluorobiphenyl		57.9	mg/Kg	1	60.0	96	80 - 120
2,4,6-Tribromophenol	[1]	75.0	mg/Kg	1	60.0	125	80 - 120
Terphenyl-d14		67.6	mg/Kg	1	60.0	113	80 - 120

[1] 2,4,6-Tribromophenol outside of control limits on CCV(ICV). CCV(ICV) component average is 99.0% 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 28, 2006

Work Order: 6101906

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
106218	HLSF-0085-SB-007(0.5-1.0)	soil	2006-10-17	09:40	2006-10-18
106219	HLSF-0085-SB-007(10.0-11.0)	soil	2006-10-17	10:05	2006-10-18
106220	HLSF-0085-SB-007(20.0-21.0)	soil	2006-10-17	10:20	2006-10-18
106221	HLSF-0085-SB-007(30.0-31.0)	soil	2006-10-17	11:00	2006-10-18
106222	HLSF-0085-SB-007(40.0-41.0)	soil	2006-10-17	11:25	2006-10-18
106223	HLSF-0085-SB-007(49.0-50.0)	soil	2006-10-17	12:00	2006-10-18
106224	HLSF-0085-SB-008(0.5-1.0)	soil	2006-10-17	14:00	2006-10-18
106225	HLSF-0085-SB-008(10.0-11.0)	soil	2006-10-17	14:45	2006-10-18
106226	HLSF-0085-SB-008(20.0-21.0)	soil	2006-10-17	15:20	2006-10-18
106227	HLSF-0085-SB-008(30.0-31.0)	soil	2006-10-17	15:50	2006-10-18
106228	TB-575	water	2006-10-17	09:40	2006-10-18

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 28 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: 106218 - HLSF-0085-SB-007(0.5-1.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
Vinyl Chloride		<10.0	µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0	µg/Kg	1	50.0
Chloroethane		<10.0	µg/Kg	1	10.0
Trichlorofluoromethane		<10.0	µg/Kg	1	10.0
Acetone		<100	µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0	µg/Kg	1	50.0
Carbon Disulfide		<10.0	µg/Kg	1	10.0
Acrylonitrile		<10.0	µg/Kg	1	10.0
2-Butanone (MEK)		<50.0	µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0	µg/Kg	1	50.0
2-Hexanone		<50.0	µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100	µg/Kg	1	100
1,1-Dichloroethene		<10.0	µg/Kg	1	10.0
Methylene chloride	*B*	<50.0	µg/Kg	1	50.0
MTBE		<10.0	µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
1,1-Dichloroethane		<10.0	µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
2,2-Dichloropropane		<10.0	µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0	µg/Kg	1	10.0
Chloroform		<10.0	µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0	µg/Kg	1	10.0
1,1-Dichloropropene		<10.0	µg/Kg	1	10.0
Benzene		<10.0	µg/Kg	1	10.0
Carbon Tetrachloride		<10.0	µg/Kg	1	10.0
1,2-Dichloropropane		<10.0	µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0	µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0	µg/Kg	1	10.0
Bromodichloromethane		<10.0	µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0	µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
Toluene	*B*	<10.0	µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0	µg/Kg	1	10.0
1,3-Dichloropropane		<10.0	µg/Kg	1	10.0
Dibromochloromethane		<10.0	µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0	µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0	µg/Kg	1	10.0
Chlorobenzene		<10.0	µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0	µg/Kg	1	10.0
Ethylbenzene		<10.0	µg/Kg	1	10.0

continued . . .

sample 106218 continued . . .

Parameter	Flag	Result	RL Units	Dilution	RL
m,p-Xylene		<10.0	µg/Kg	1	10.0
Bromoform		<10.0	µg/Kg	1	10.0
Styrene		<10.0	µg/Kg	1	10.0
o-Xylene		<10.0	µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0	µg/Kg	1	10.0
2-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0	µg/Kg	1	10.0
Isopropylbenzene		<10.0	µg/Kg	1	10.0
Bromobenzene		<10.0	µg/Kg	1	10.0
n-Propylbenzene		<10.0	µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0	µg/Kg	1	10.0
tert-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0	µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1	10.0
sec-Butylbenzene		<10.0	µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1	10.0
p-Isopropyltoluene		<10.0	µg/Kg	1	10.0
4-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0	µg/Kg	1	10.0
n-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0	µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0	µg/Kg	1	50.0
Naphthalene		<50.0	µg/Kg	1	50.0
Hexachlorobutadiene		<50.0	µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		470	µg/Kg	1	500	94	42 - 129
Toluene-d8		478	µg/Kg	1	500	96	93 - 107
4-Bromofluorobenzene (4-BFB)		491	µg/Kg	1	500	98	78 - 120

Sample: 106219 - HLSF-0085-SB-007(10.0-11.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	Result	RL Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
Vinyl Chloride		<10.0	µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0	µg/Kg	1	50.0
Chloroethane		<10.0	µg/Kg	1	10.0
Trichlorofluoromethane		<10.0	µg/Kg	1	10.0
Acetone		<100	µg/Kg	1	100

continued . . .

sample 106219 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
Iodomethane (methyl iodide)		<50.0		µg/Kg	1	50.0
Carbon Disulfide		<10.0		µg/Kg	1	10.0
Acrylonitrile		<10.0		µg/Kg	1	10.0
2-Butanone (MEK)		<50.0		µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0		µg/Kg	1	50.0
2-Hexanone		<50.0		µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100		µg/Kg	1	100
1,1-Dichloroethene		<10.0		µg/Kg	1	10.0
Methylene chloride	*B*	<50.0		µg/Kg	1	50.0
MTBE		<10.0		µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0		µg/Kg	1	10.0
1,1-Dichloroethane		<10.0		µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0		µg/Kg	1	10.0
2,2-Dichloropropane		<10.0		µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0		µg/Kg	1	10.0
Chloroform		<10.0		µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0		µg/Kg	1	10.0
1,1-Dichloropropene		<10.0		µg/Kg	1	10.0
Benzene		<10.0		µg/Kg	1	10.0
Carbon Tetrachloride		<10.0		µg/Kg	1	10.0
1,2-Dichloropropane		<10.0		µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0		µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0		µg/Kg	1	10.0
Bromodichloromethane		<10.0		µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0		µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
Toluene	*B*	<10.0		µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0		µg/Kg	1	10.0
1,3-Dichloropropane		<10.0		µg/Kg	1	10.0
Dibromochloromethane		<10.0		µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0		µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0		µg/Kg	1	10.0
Chlorobenzene		<10.0		µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
Ethylbenzene		<10.0		µg/Kg	1	10.0
m,p-Xylene		<10.0		µg/Kg	1	10.0
Bromoform		<10.0		µg/Kg	1	10.0
Styrene		<10.0		µg/Kg	1	10.0
o-Xylene		<10.0		µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
2-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0		µg/Kg	1	10.0
Isopropylbenzene		<10.0		µg/Kg	1	10.0
Bromobenzene		<10.0		µg/Kg	1	10.0
n-Propylbenzene		<10.0		µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0		µg/Kg	1	10.0
tert-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0		µg/Kg	1	10.0

continued . . .

sample 106219 continued . . .

Parameter	Flag	Result	RL Units	Dilution	RL
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1	10.0
sec-Butylbenzene		<10.0	µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1	10.0
p-Isopropyltoluene		<10.0	µg/Kg	1	10.0
4-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0	µg/Kg	1	10.0
n-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0	µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0	µg/Kg	1	50.0
Naphthalene		<50.0	µg/Kg	1	50.0
Hexachlorobutadiene		<50.0	µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		471	µg/Kg	1	500	94	42 - 129
Toluene-d8		481	µg/Kg	1	500	96	93 - 107
4-Bromofluorobenzene (4-BFB)		488	µg/Kg	1	500	98	78 - 120

Sample: 106220 - HLSF-0085-SB-007(20.0-21.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	Result	RL Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
Vinyl Chloride		<10.0	µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0	µg/Kg	1	50.0
Chloroethane		<10.0	µg/Kg	1	10.0
Trichlorofluoromethane		<10.0	µg/Kg	1	10.0
Acetone		<100	µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0	µg/Kg	1	50.0
Carbon Disulfide		<10.0	µg/Kg	1	10.0
Acrylonitrile		<10.0	µg/Kg	1	10.0
2-Butanone (MEK)		<50.0	µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0	µg/Kg	1	50.0
2-Hexanone		<50.0	µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100	µg/Kg	1	100
1,1-Dichloroethene		<10.0	µg/Kg	1	10.0
Methylene chloride	*B*	<50.0	µg/Kg	1	50.0
MTBE		<10.0	µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
1,1-Dichloroethane		<10.0	µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0

continued . . .

sample 106220 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
2,2-Dichloropropane		<10.0		µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0		µg/Kg	1	10.0
Chloroform		<10.0		µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0		µg/Kg	1	10.0
1,1-Dichloropropene		<10.0		µg/Kg	1	10.0
Benzene		<10.0		µg/Kg	1	10.0
Carbon Tetrachloride		<10.0		µg/Kg	1	10.0
1,2-Dichloropropane		<10.0		µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0		µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0		µg/Kg	1	10.0
Bromodichloromethane		<10.0		µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0		µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
Toluene	*B*	<10.0		µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0		µg/Kg	1	10.0
1,3-Dichloropropane		<10.0		µg/Kg	1	10.0
Dibromochloromethane		<10.0		µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0		µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0		µg/Kg	1	10.0
Chlorobenzene		<10.0		µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
Ethylbenzene		<10.0		µg/Kg	1	10.0
m,p-Xylene		<10.0		µg/Kg	1	10.0
Bromoform		<10.0		µg/Kg	1	10.0
Styrene		<10.0		µg/Kg	1	10.0
o-Xylene		<10.0		µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
2-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0		µg/Kg	1	10.0
Isopropylbenzene		<10.0		µg/Kg	1	10.0
Bromobenzene		<10.0		µg/Kg	1	10.0
n-Propylbenzene		<10.0		µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0		µg/Kg	1	10.0
tert-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0		µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0		µg/Kg	1	10.0
sec-Butylbenzene		<10.0		µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0		µg/Kg	1	10.0
p-Isopropyltoluene		<10.0		µg/Kg	1	10.0
4-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0		µg/Kg	1	10.0
n-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0		µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0		µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0		µg/Kg	1	50.0
Naphthalene		<50.0		µg/Kg	1	50.0
Hexachlorobutadiene		<50.0		µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		471	µg/Kg	1	500	94	42 - 129
Toluene-d8		484	µg/Kg	1	500	97	93 - 107
4-Bromofluorobenzene (4-BFB)		488	µg/Kg	1	500	98	78 - 120

Sample: 106221 - HLSF-0085-SB-007(30.0-31.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
Vinyl Chloride		<10.0	µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0	µg/Kg	1	50.0
Chloroethane		<10.0	µg/Kg	1	10.0
Trichlorofluoromethane		<10.0	µg/Kg	1	10.0
Acetone		<100	µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0	µg/Kg	1	50.0
Carbon Disulfide		<10.0	µg/Kg	1	10.0
Acrylonitrile		<10.0	µg/Kg	1	10.0
2-Butanone (MEK)		<50.0	µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0	µg/Kg	1	50.0
2-Hexanone		<50.0	µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100	µg/Kg	1	100
1,1-Dichloroethene		<10.0	µg/Kg	1	10.0
Methylene chloride	B	<50.0	µg/Kg	1	50.0
MTBE		<10.0	µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
1,1-Dichloroethane		<10.0	µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
2,2-Dichloropropane		<10.0	µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0	µg/Kg	1	10.0
Chloroform		<10.0	µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0	µg/Kg	1	10.0
1,1-Dichloropropene		<10.0	µg/Kg	1	10.0
Benzene		<10.0	µg/Kg	1	10.0
Carbon Tetrachloride		<10.0	µg/Kg	1	10.0
1,2-Dichloropropane		<10.0	µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0	µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0	µg/Kg	1	10.0
Bromodichloromethane		<10.0	µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0	µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
Toluene	B	<10.0	µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0	µg/Kg	1	10.0
1,3-Dichloropropane		<10.0	µg/Kg	1	10.0

continued . . .

sample 106221 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
Dibromochloromethane		<10.0		µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0		µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0		µg/Kg	1	10.0
Chlorobenzene		<10.0		µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
Ethylbenzene		<10.0		µg/Kg	1	10.0
m,p-Xylene		<10.0		µg/Kg	1	10.0
Bromoform		<10.0		µg/Kg	1	10.0
Styrene		<10.0		µg/Kg	1	10.0
o-Xylene		<10.0		µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
2-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0		µg/Kg	1	10.0
Isopropylbenzene		<10.0		µg/Kg	1	10.0
Bromobenzene		<10.0		µg/Kg	1	10.0
n-Propylbenzene		<10.0		µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0		µg/Kg	1	10.0
tert-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0		µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0		µg/Kg	1	10.0
sec-Butylbenzene		<10.0		µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0		µg/Kg	1	10.0
p-Isopropyltoluene		<10.0		µg/Kg	1	10.0
4-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0		µg/Kg	1	10.0
n-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0		µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0		µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0		µg/Kg	1	50.0
Naphthalene		<50.0		µg/Kg	1	50.0
Hexachlorobutadiene		<50.0		µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		465	µg/Kg	1	500	93	42 - 129
Toluene-d8		480	µg/Kg	1	500	96	93 - 107
4-Bromofluorobenzene (4-BFB)		481	µg/Kg	1	500	96	78 - 120

Sample: 106222 - HLSF-0085-SB-007(40.0-41.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	Result	RL	Units	Dilution	RL
Bromochloromethane		<10.0		µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0		µg/Kg	1	10.0

continued . . .

sample 106222 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloromethane (methyl chloride)		<10.0		µg/Kg	1	10.0
Vinyl Chloride		<10.0		µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0		µg/Kg	1	50.0
Chloroethane		<10.0		µg/Kg	1	10.0
Trichlorofluoromethane		<10.0		µg/Kg	1	10.0
Acetone		<100		µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0		µg/Kg	1	50.0
Carbon Disulfide		<10.0		µg/Kg	1	10.0
Acrylonitrile		<10.0		µg/Kg	1	10.0
2-Butanone (MEK)		<50.0		µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0		µg/Kg	1	50.0
2-Hexanone		<50.0		µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100		µg/Kg	1	100
1,1-Dichloroethene		<10.0		µg/Kg	1	10.0
Methylene chloride	*B*	<50.0		µg/Kg	1	50.0
MTBE		<10.0		µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0		µg/Kg	1	10.0
1,1-Dichloroethane		<10.0		µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0		µg/Kg	1	10.0
2,2-Dichloropropane		<10.0		µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0		µg/Kg	1	10.0
Chloroform		<10.0		µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0		µg/Kg	1	10.0
1,1-Dichloropropene		<10.0		µg/Kg	1	10.0
Benzene		<10.0		µg/Kg	1	10.0
Carbon Tetrachloride		<10.0		µg/Kg	1	10.0
1,2-Dichloropropane		<10.0		µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0		µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0		µg/Kg	1	10.0
Bromodichloromethane		<10.0		µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0		µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
Toluene	*B*	<10.0		µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0		µg/Kg	1	10.0
1,3-Dichloropropane		<10.0		µg/Kg	1	10.0
Dibromochloromethane		<10.0		µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0		µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0		µg/Kg	1	10.0
Chlorobenzene		<10.0		µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
Ethylbenzene		<10.0		µg/Kg	1	10.0
m,p-Xylene		<10.0		µg/Kg	1	10.0
Bromoform		<10.0		µg/Kg	1	10.0
Styrene		<10.0		µg/Kg	1	10.0
o-Xylene		<10.0		µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
2-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0		µg/Kg	1	10.0

continued . . .

sample 106222 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
Isopropylbenzene		<10.0		µg/Kg	1	10.0
Bromobenzene		<10.0		µg/Kg	1	10.0
n-Propylbenzene		<10.0		µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0		µg/Kg	1	10.0
tert-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0		µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0		µg/Kg	1	10.0
sec-Butylbenzene		<10.0		µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0		µg/Kg	1	10.0
p-Isopropyltoluene		<10.0		µg/Kg	1	10.0
4-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0		µg/Kg	1	10.0
n-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0		µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0		µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0		µg/Kg	1	50.0
Naphthalene		<50.0		µg/Kg	1	50.0
Hexachlorobutadiene		<50.0		µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		472	µg/Kg	1	500	94	42 - 129
Toluene-d8		488	µg/Kg	1	500	98	93 - 107
4-Bromofluorobenzene (4-BFB)		484	µg/Kg	1	500	97	78 - 120

Sample: 106223 - HLSF-0085-SB-007(49.0-50.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	Result	RL	Units	Dilution	RL
Bromochloromethane		<10.0		µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0		µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0		µg/Kg	1	10.0
Vinyl Chloride		<10.0		µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0		µg/Kg	1	50.0
Chloroethane		<10.0		µg/Kg	1	10.0
Trichlorofluoromethane		<10.0		µg/Kg	1	10.0
Acetone		<100		µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0		µg/Kg	1	50.0
Carbon Disulfide		<10.0		µg/Kg	1	10.0
Acrylonitrile		<10.0		µg/Kg	1	10.0
2-Butanone (MEK)		<50.0		µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0		µg/Kg	1	50.0
2-Hexanone		<50.0		µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100		µg/Kg	1	100

continued . . .

sample 106223 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
1,1-Dichloroethene		<10.0		µg/Kg	1	10.0
Methylene chloride	B	<50.0		µg/Kg	1	50.0
MTBE		<10.0		µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0		µg/Kg	1	10.0
1,1-Dichloroethane		<10.0		µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0		µg/Kg	1	10.0
2,2-Dichloropropane		<10.0		µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0		µg/Kg	1	10.0
Chloroform		<10.0		µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0		µg/Kg	1	10.0
1,1-Dichloropropene		<10.0		µg/Kg	1	10.0
Benzene		<10.0		µg/Kg	1	10.0
Carbon Tetrachloride		<10.0		µg/Kg	1	10.0
1,2-Dichloropropane		<10.0		µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0		µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0		µg/Kg	1	10.0
Bromodichloromethane		<10.0		µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0		µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
Toluene	B	<10.0		µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0		µg/Kg	1	10.0
1,3-Dichloropropane		<10.0		µg/Kg	1	10.0
Dibromochloromethane		<10.0		µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0		µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0		µg/Kg	1	10.0
Chlorobenzene		<10.0		µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
Ethylbenzene		<10.0		µg/Kg	1	10.0
m,p-Xylene		<10.0		µg/Kg	1	10.0
Bromoform		<10.0		µg/Kg	1	10.0
Styrene		<10.0		µg/Kg	1	10.0
o-Xylene		<10.0		µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
2-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0		µg/Kg	1	10.0
Isopropylbenzene		<10.0		µg/Kg	1	10.0
Bromobenzene		<10.0		µg/Kg	1	10.0
n-Propylbenzene		<10.0		µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0		µg/Kg	1	10.0
tert-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0		µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0		µg/Kg	1	10.0
sec-Butylbenzene		<10.0		µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0		µg/Kg	1	10.0
p-Isopropyltoluene		<10.0		µg/Kg	1	10.0
4-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0		µg/Kg	1	10.0
n-Butylbenzene		<10.0		µg/Kg	1	10.0

continued . . .

sample 106223 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0	µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0	µg/Kg	1	50.0
Naphthalene		<50.0	µg/Kg	1	50.0
Hexachlorobutadiene		<50.0	µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		473	µg/Kg	1	500	95	42 - 129
Toluene-d8		482	µg/Kg	1	500	96	93 - 107
4-Bromofluorobenzene (4-BFB)		481	µg/Kg	1	500	96	78 - 120

Sample: 106224 - HLSF-0085-SB-008(0.5-1.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
Vinyl Chloride		<10.0	µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0	µg/Kg	1	50.0
Chloroethane		<10.0	µg/Kg	1	10.0
Trichlorofluoromethane		<10.0	µg/Kg	1	10.0
Acetone		<100	µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0	µg/Kg	1	50.0
Carbon Disulfide		<10.0	µg/Kg	1	10.0
Acrylonitrile		<10.0	µg/Kg	1	10.0
2-Butanone (MEK)		<50.0	µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0	µg/Kg	1	50.0
2-Hexanone		<50.0	µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100	µg/Kg	1	100
1,1-Dichloroethene		<10.0	µg/Kg	1	10.0
Methylene chloride	*B*	<50.0	µg/Kg	1	50.0
MTBE		<10.0	µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
1,1-Dichloroethane		<10.0	µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
2,2-Dichloropropane		<10.0	µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0	µg/Kg	1	10.0
Chloroform		<10.0	µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0	µg/Kg	1	10.0
1,1-Dichloropropene		<10.0	µg/Kg	1	10.0
Benzene		<10.0	µg/Kg	1	10.0
Carbon Tetrachloride		<10.0	µg/Kg	1	10.0

continued . . .

sample 106224 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
1,2-Dichloropropane		<10.0	µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0	µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0	µg/Kg	1	10.0
Bromodichloromethane		<10.0	µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0	µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
Toluene	B	<10.0	µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0	µg/Kg	1	10.0
1,3-Dichloropropane		<10.0	µg/Kg	1	10.0
Dibromochloromethane		<10.0	µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0	µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0	µg/Kg	1	10.0
Chlorobenzene		<10.0	µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0	µg/Kg	1	10.0
Ethylbenzene		<10.0	µg/Kg	1	10.0
m,p-Xylene		<10.0	µg/Kg	1	10.0
Bromoform		<10.0	µg/Kg	1	10.0
Styrene		<10.0	µg/Kg	1	10.0
o-Xylene		<10.0	µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0	µg/Kg	1	10.0
2-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0	µg/Kg	1	10.0
Isopropylbenzene		<10.0	µg/Kg	1	10.0
Bromobenzene		<10.0	µg/Kg	1	10.0
n-Propylbenzene		<10.0	µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0	µg/Kg	1	10.0
tert-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0	µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1	10.0
sec-Butylbenzene		<10.0	µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1	10.0
p-Isopropyltoluene		<10.0	µg/Kg	1	10.0
4-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0	µg/Kg	1	10.0
n-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0	µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0	µg/Kg	1	50.0
Naphthalene		<50.0	µg/Kg	1	50.0
Hexachlorobutadiene		<50.0	µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		478	µg/Kg	1	500	96	42 - 129
Toluene-d8		484	µg/Kg	1	500	97	93 - 107
4-Bromofluorobenzene (4-BFB)		487	µg/Kg	1	500	97	78 - 120

Sample: 106225 - HLSF-0085-SB-008(10.0-11.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	Result	RL Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
Vinyl Chloride		<10.0	µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0	µg/Kg	1	50.0
Chloroethane		<10.0	µg/Kg	1	10.0
Trichlorofluoromethane		<10.0	µg/Kg	1	10.0
Acetone		<100	µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0	µg/Kg	1	50.0
Carbon Disulfide		<10.0	µg/Kg	1	10.0
Acrylonitrile		<10.0	µg/Kg	1	10.0
2-Butanone (MEK)		<50.0	µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0	µg/Kg	1	50.0
2-Hexanone		<50.0	µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100	µg/Kg	1	100
1,1-Dichloroethene		<10.0	µg/Kg	1	10.0
Methylene chloride	*B*	<50.0	µg/Kg	1	50.0
MTBE		<10.0	µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
1,1-Dichloroethane		<10.0	µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
2,2-Dichloropropane		<10.0	µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0	µg/Kg	1	10.0
Chloroform		<10.0	µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0	µg/Kg	1	10.0
1,1-Dichloropropene		<10.0	µg/Kg	1	10.0
Benzene		<10.0	µg/Kg	1	10.0
Carbon Tetrachloride		<10.0	µg/Kg	1	10.0
1,2-Dichloropropane		<10.0	µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0	µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0	µg/Kg	1	10.0
Bromodichloromethane		<10.0	µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0	µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
Toluene	*B*	<10.0	µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0	µg/Kg	1	10.0
1,3-Dichloropropane		<10.0	µg/Kg	1	10.0
Dibromochloromethane		<10.0	µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0	µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0	µg/Kg	1	10.0
Chlorobenzene		<10.0	µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0	µg/Kg	1	10.0
Ethylbenzene		<10.0	µg/Kg	1	10.0
m,p-Xylene		<10.0	µg/Kg	1	10.0
Bromoform		<10.0	µg/Kg	1	10.0

continued . . .

sample 106225 continued . . .

Parameter	Flag	Result	RL Units	Dilution	RL
Styrene		<10.0	µg/Kg	1	10.0
o-Xylene		<10.0	µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0	µg/Kg	1	10.0
2-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0	µg/Kg	1	10.0
Isopropylbenzene		<10.0	µg/Kg	1	10.0
Bromobenzene		<10.0	µg/Kg	1	10.0
n-Propylbenzene		<10.0	µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0	µg/Kg	1	10.0
tert-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0	µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1	10.0
sec-Butylbenzene		<10.0	µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1	10.0
p-Isopropyltoluene		<10.0	µg/Kg	1	10.0
4-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0	µg/Kg	1	10.0
n-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0	µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0	µg/Kg	1	50.0
Naphthalene		<50.0	µg/Kg	1	50.0
Hexachlorobutadiene		<50.0	µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		474	µg/Kg	1	500	95	42 - 129
Toluene-d8		482	µg/Kg	1	500	96	93 - 107
4-Bromofluorobenzene (4-BFB)		484	µg/Kg	1	500	97	78 - 120

Sample: 106226 - HLSF-0085-SB-008(20.0-21.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	Result	RL Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
Vinyl Chloride		<10.0	µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0	µg/Kg	1	50.0
Chloroethane		<10.0	µg/Kg	1	10.0
Trichlorofluoromethane		<10.0	µg/Kg	1	10.0
Acetone		<100	µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0	µg/Kg	1	50.0
Carbon Disulfide		<10.0	µg/Kg	1	10.0

continued . . .

sample 106226 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
Acrylonitrile		<10.0		µg/Kg	1	10.0
2-Butanone (MEK)		<50.0		µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0		µg/Kg	1	50.0
2-Hexanone		<50.0		µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100		µg/Kg	1	100
1,1-Dichloroethene		<10.0		µg/Kg	1	10.0
Methylene chloride	B	<50.0		µg/Kg	1	50.0
MTBE		<10.0		µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0		µg/Kg	1	10.0
1,1-Dichloroethane		<10.0		µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0		µg/Kg	1	10.0
2,2-Dichloropropane		<10.0		µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0		µg/Kg	1	10.0
Chloroform		<10.0		µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0		µg/Kg	1	10.0
1,1-Dichloropropene		<10.0		µg/Kg	1	10.0
Benzene		<10.0		µg/Kg	1	10.0
Carbon Tetrachloride		<10.0		µg/Kg	1	10.0
1,2-Dichloropropane		<10.0		µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0		µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0		µg/Kg	1	10.0
Bromodichloromethane		<10.0		µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0		µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0		µg/Kg	1	10.0
Toluene	B	<10.0		µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0		µg/Kg	1	10.0
1,3-Dichloropropane		<10.0		µg/Kg	1	10.0
Dibromochloromethane		<10.0		µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0		µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0		µg/Kg	1	10.0
Chlorobenzene		<10.0		µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
Ethylbenzene		<10.0		µg/Kg	1	10.0
m,p-Xylene		<10.0		µg/Kg	1	10.0
Bromoform		<10.0		µg/Kg	1	10.0
Styrene		<10.0		µg/Kg	1	10.0
o-Xylene		<10.0		µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0		µg/Kg	1	10.0
2-Chlorotoluene		<10.0		µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0		µg/Kg	1	10.0
Isopropylbenzene		<10.0		µg/Kg	1	10.0
Bromobenzene		<10.0		µg/Kg	1	10.0
n-Propylbenzene		<10.0		µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0		µg/Kg	1	10.0
tert-Butylbenzene		<10.0		µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0		µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0		µg/Kg	1	10.0
sec-Butylbenzene		<10.0		µg/Kg	1	10.0

continued . . .

sample 106226 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1	10.0
p-Isopropyltoluene		<10.0	µg/Kg	1	10.0
4-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0	µg/Kg	1	10.0
n-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0	µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0	µg/Kg	1	50.0
Naphthalene		<50.0	µg/Kg	1	50.0
Hexachlorobutadiene		<50.0	µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		487	µg/Kg	1	500	97	42 - 129
Toluene-d8		481	µg/Kg	1	500	96	93 - 107
4-Bromofluorobenzene (4-BFB)		480	µg/Kg	1	500	96	78 - 120

Sample: 106227 - HLSF-0085-SB-008(30.0-31.0)

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31243	Date Analyzed:	2006-10-22	Analyzed By:	JG
Prep Batch:	27203	Sample Preparation:	2006-10-22	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
Vinyl Chloride		<10.0	µg/Kg	1	10.0
Bromomethane (methyl bromide)		<50.0	µg/Kg	1	50.0
Chloroethane		<10.0	µg/Kg	1	10.0
Trichlorofluoromethane		<10.0	µg/Kg	1	10.0
Acetone		<100	µg/Kg	1	100
Iodomethane (methyl iodide)		<50.0	µg/Kg	1	50.0
Carbon Disulfide		<10.0	µg/Kg	1	10.0
Acrylonitrile		<10.0	µg/Kg	1	10.0
2-Butanone (MEK)		<50.0	µg/Kg	1	50.0
4-Methyl-2-pentanone (MIBK)		<50.0	µg/Kg	1	50.0
2-Hexanone		<50.0	µg/Kg	1	50.0
trans 1,4-Dichloro-2-butene		<100	µg/Kg	1	100
1,1-Dichloroethene		<10.0	µg/Kg	1	10.0
Methylene chloride	B	<50.0	µg/Kg	1	50.0
MTBE		<10.0	µg/Kg	1	10.0
trans-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
1,1-Dichloroethane		<10.0	µg/Kg	1	10.0
cis-1,2-Dichloroethene		<10.0	µg/Kg	1	10.0
2,2-Dichloropropane		<10.0	µg/Kg	1	10.0
1,2-Dichloroethane (EDC)		<10.0	µg/Kg	1	10.0

continued . . .

sample 106227 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Chloroform		<10.0	µg/Kg	1	10.0
1,1,1-Trichloroethane		<10.0	µg/Kg	1	10.0
1,1-Dichloropropene		<10.0	µg/Kg	1	10.0
Benzene		<10.0	µg/Kg	1	10.0
Carbon Tetrachloride		<10.0	µg/Kg	1	10.0
1,2-Dichloropropane		<10.0	µg/Kg	1	10.0
Trichloroethene (TCE)		<10.0	µg/Kg	1	10.0
Dibromomethane (methylene bromide)		<10.0	µg/Kg	1	10.0
Bromodichloromethane		<10.0	µg/Kg	1	10.0
2-Chloroethyl vinyl ether		<50.0	µg/Kg	1	50.0
cis-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
trans-1,3-Dichloropropene		<10.0	µg/Kg	1	10.0
Toluene	*B*	<10.0	µg/Kg	1	10.0
1,1,2-Trichloroethane		<10.0	µg/Kg	1	10.0
1,3-Dichloropropane		<10.0	µg/Kg	1	10.0
Dibromochloromethane		<10.0	µg/Kg	1	10.0
1,2-Dibromoethane (EDB)		<10.0	µg/Kg	1	10.0
Tetrachloroethene (PCE)		<10.0	µg/Kg	1	10.0
Chlorobenzene		<10.0	µg/Kg	1	10.0
1,1,1,2-Tetrachloroethane		<10.0	µg/Kg	1	10.0
Ethylbenzene		<10.0	µg/Kg	1	10.0
m,p-Xylene		<10.0	µg/Kg	1	10.0
Bromoform		<10.0	µg/Kg	1	10.0
Styrene		<10.0	µg/Kg	1	10.0
o-Xylene		<10.0	µg/Kg	1	10.0
1,1,2,2-Tetrachloroethane		<10.0	µg/Kg	1	10.0
2-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2,3-Trichloropropane		<10.0	µg/Kg	1	10.0
Isopropylbenzene		<10.0	µg/Kg	1	10.0
Bromobenzene		<10.0	µg/Kg	1	10.0
n-Propylbenzene		<10.0	µg/Kg	1	10.0
1,3,5-Trimethylbenzene		<10.0	µg/Kg	1	10.0
tert-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2,4-Trimethylbenzene		<10.0	µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1	10.0
sec-Butylbenzene		<10.0	µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1	10.0
p-Isopropyltoluene		<10.0	µg/Kg	1	10.0
4-Chlorotoluene		<10.0	µg/Kg	1	10.0
1,2-Dichlorobenzene (ortho)		<10.0	µg/Kg	1	10.0
n-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	1	50.0
1,2,3-Trichlorobenzene		<50.0	µg/Kg	1	50.0
1,2,4-Trichlorobenzene		<50.0	µg/Kg	1	50.0
Naphthalene		<50.0	µg/Kg	1	50.0
Hexachlorobutadiene		<50.0	µg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		482	µg/Kg	1	500	96	42 - 129
Toluene-d8		484	µg/Kg	1	500	97	93 - 107
4-Bromofluorobenzene (4-BFB)		488	µg/Kg	1	500	98	78 - 120

Sample: 106228 - TB-575

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	31277	Date Analyzed:	2006-10-24	Analyzed By:	JG
Prep Batch:	27234	Sample Preparation:	2006-10-24	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<1.00	µg/L	1	1.00
Dichlorodifluoromethane		<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)		<1.00	µg/L	1	1.00
Vinyl Chloride		<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)		<5.00	µg/L	1	5.00
Chloroethane		<1.00	µg/L	1	1.00
Trichlorofluoromethane		<1.00	µg/L	1	1.00
Acetone		<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)		<5.00	µg/L	1	5.00
Carbon Disulfide		<1.00	µg/L	1	1.00
Acrylonitrile		<1.00	µg/L	1	1.00
2-Butanone (MEK)		<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5.00
2-Hexanone		<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10.0
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride	*B*	<5.00	µg/L	1	5.00
MTBE		<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,1-Dichloroethane		<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
2,2-Dichloropropane		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
Chloroform		**2.01**	µg/L	1	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1	1.00
1,1-Dichloropropene		<1.00	µg/L	1	1.00
Benzene	*B*	<1.00	µg/L	1	1.00
Carbon Tetrachloride		<1.00	µg/L	1	1.00
1,2-Dichloropropane		<1.00	µg/L	1	1.00
Trichloroethene (TCE)		<1.00	µg/L	1	1.00
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1.00
Bromodichloromethane		<1.00	µg/L	1	1.00
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5.00
cis-1,3-Dichloropropene		<1.00	µg/L	1	1.00
trans-1,3-Dichloropropene		<1.00	µg/L	1	1.00
Toluene	*B*	<1.00	µg/L	1	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1	1.00
1,3-Dichloropropane		<1.00	µg/L	1	1.00

continued . . .

sample 106228 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Dibromochloromethane		<1.00	µg/L	1	1.00
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1	1.00
Chlorobenzene		<1.00	µg/L	1	1.00
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
Bromoform		<1.00	µg/L	1	1.00
Styrene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1.00
2-Chlorotoluene		<1.00	µg/L	1	1.00
1,2,3-Trichloropropane		<1.00	µg/L	1	1.00
Isopropylbenzene		<1.00	µg/L	1	1.00
Bromobenzene		<1.00	µg/L	1	1.00
n-Propylbenzene		<1.00	µg/L	1	1.00
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1.00
tert-Butylbenzene		<1.00	µg/L	1	1.00
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1.00
sec-Butylbenzene		<1.00	µg/L	1	1.00
1,3-Dichlorobenzene (meta)		<1.00	µg/L	1	1.00
p-Isopropyltoluene		<1.00	µg/L	1	1.00
4-Chlorotoluene		<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1.00
n-Butylbenzene		<1.00	µg/L	1	1.00
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5.00
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5.00
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5.00
Naphthalene		<5.00	µg/L	1	5.00
Hexachlorobutadiene		<5.00	µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.8	µg/L	1	50.0	102	82.4 - 115
Toluene-d8		46.4	µg/L	1	50.0	93	89.7 - 108
4-Bromofluorobenzene (4-BFB)		47.9	µg/L	1	50.0	96	84.6 - 114

Method Blank (1) QC Batch: 31243

QC Batch: 31243 Date Analyzed: 2006-10-22 Analyzed By: JG
Prep Batch: 27203 QC Preparation: 2006-10-22 Prepared By: JG

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.825	µg/Kg	10
Dichlorodifluoromethane		<0.889	µg/Kg	10
Chloromethane (methyl chloride)		<0.929	µg/Kg	10

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
Vinyl Chloride		<0.463	µg/Kg	10
Bromomethane (methyl bromide)		<1.71	µg/Kg	50
Chloroethane		<3.68	µg/Kg	10
Trichlorofluoromethane		<0.306	µg/Kg	10
Acetone		<1.70	µg/Kg	100
Iodomethane (methyl iodide)		<0.640	µg/Kg	50
Carbon Disulfide		<0.346	µg/Kg	10
Acrylonitrile		<1.51	µg/Kg	10
2-Butanone (MEK)		<3.78	µg/Kg	50
4-Methyl-2-pentanone (MIBK)		<7.86	µg/Kg	50
2-Hexanone		<5.70	µg/Kg	50
trans 1,4-Dichloro-2-butene		<1.33	µg/Kg	100
1,1-Dichloroethene		<0.639	µg/Kg	10
Methylene chloride		36.2	µg/Kg	50
MTBE		<0.362	µg/Kg	10
trans-1,2-Dichloroethene		<0.419	µg/Kg	10
1,1-Dichloroethane		<0.257	µg/Kg	10
cis-1,2-Dichloroethene		<0.627	µg/Kg	10
2,2-Dichloropropane		<0.593	µg/Kg	10
1,2-Dichloroethane (EDC)		<0.524	µg/Kg	10
Chloroform		<0.440	µg/Kg	10
1,1,1-Trichloroethane		<0.750	µg/Kg	10
1,1-Dichloropropene		<0.622	µg/Kg	10
Benzene		<0.644	µg/Kg	10
Carbon Tetrachloride		<0.485	µg/Kg	10
1,2-Dichloropropane		<0.547	µg/Kg	10
Trichloroethene (TCE)		<0.836	µg/Kg	10
Dibromomethane (methylene bromide)		<0.435	µg/Kg	10
Bromodichloromethane		<0.457	µg/Kg	10
2-Chloroethyl vinyl ether		<0.547	µg/Kg	50
cis-1,3-Dichloropropene		<0.596	µg/Kg	10
trans-1,3-Dichloropropene		<0.561	µg/Kg	10
Toluene		1.17	µg/Kg	10
1,1,2-Trichloroethane		<3.25	µg/Kg	10
1,3-Dichloropropane		<0.505	µg/Kg	10
Dibromochloromethane		<0.552	µg/Kg	10
1,2-Dibromoethane (EDB)		<0.688	µg/Kg	10
Tetrachloroethene (PCE)		<0.826	µg/Kg	10
Chlorobenzene		<0.426	µg/Kg	10
1,1,1,2-Tetrachloroethane		<0.289	µg/Kg	10
Ethylbenzene		<0.376	µg/Kg	10
m,p-Xylene		<0.714	µg/Kg	10
Bromoform		<0.426	µg/Kg	10
Styrene		<0.796	µg/Kg	10
o-Xylene		<0.679	µg/Kg	10
1,1,2,2-Tetrachloroethane		<0.703	µg/Kg	10
2-Chlorotoluene		<1.26	µg/Kg	10
1,2,3-Trichloropropane		<0.504	µg/Kg	10
Isopropylbenzene		<1.30	µg/Kg	10
Bromobenzene		<0.480	µg/Kg	10

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
n-Propylbenzene		<0.421	µg/Kg	10
1,3,5-Trimethylbenzene		<2.10	µg/Kg	10
tert-Butylbenzene		<0.410	µg/Kg	10
1,2,4-Trimethylbenzene		<0.535	µg/Kg	10
1,4-Dichlorobenzene (para)		<0.387	µg/Kg	10
sec-Butylbenzene		<0.632	µg/Kg	10
1,3-Dichlorobenzene (meta)		<0.534	µg/Kg	10
p-Isopropyltoluene		<0.679	µg/Kg	10
4-Chlorotoluene		<0.675	µg/Kg	10
1,2-Dichlorobenzene (ortho)		<0.475	µg/Kg	10
n-Butylbenzene		<0.979	µg/Kg	10
1,2-Dibromo-3-chloropropane		<0.883	µg/Kg	50
1,2,3-Trichlorobenzene		<3.64	µg/Kg	50
1,2,4-Trichlorobenzene		<2.28	µg/Kg	50
Naphthalene		<4.41	µg/Kg	50
Hexachlorobutadiene		<3.24	µg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		475	µg/Kg	1	500	95	42 - 129
Toluene-d8		477	µg/Kg	1	500	95	93 - 107
4-Bromofluorobenzene (4-BFB)		492	µg/Kg	1	500	98	78 - 120

Method Blank (1) QC Batch: 31277

QC Batch: 31277 Date Analyzed: 2006-10-24 Analyzed By: JG
Prep Batch: 27234 QC Preparation: 2006-10-24 Prepared By: JG

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.351	µg/L	1
Dichlorodifluoromethane		<0.306	µg/L	1
Chloromethane (methyl chloride)		<0.240	µg/L	1
Vinyl Chloride		<0.224	µg/L	1
Bromomethane (methyl bromide)		<0.325	µg/L	5
Chloroethane		<0.303	µg/L	1
Trichlorofluoromethane		<0.255	µg/L	1
Acetone		<1.86	µg/L	10
Iodomethane (methyl iodide)		<0.397	µg/L	5
Carbon Disulfide		<0.354	µg/L	1
Acrylonitrile		<0.306	µg/L	1
2-Butanone (MEK)		<0.670	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.463	µg/L	5
2-Hexanone		<0.303	µg/L	5
trans 1,4-Dichloro-2-butene		<0.406	µg/L	10
1,1-Dichloroethene		<0.326	µg/L	1
Methylene chloride		1.88	µg/L	5
MTBE		<0.352	µg/L	1
trans-1,2-Dichloroethene		<0.322	µg/L	1

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
1,1-Dichloroethane		<0.324	µg/L	1
cis-1,2-Dichloroethene		<0.331	µg/L	1
2,2-Dichloropropane		<0.440	µg/L	1
1,2-Dichloroethane (EDC)		<0.327	µg/L	1
Chloroform		<0.345	µg/L	1
1,1,1-Trichloroethane		<0.303	µg/L	1
1,1-Dichloropropene		<0.356	µg/L	1
Benzene		<0.356	µg/L	1
Carbon Tetrachloride		<0.342	µg/L	1
1,2-Dichloropropane		<0.366	µg/L	1
Trichloroethene (TCE)		<0.434	µg/L	1
Dibromomethane (methylene bromide)		<0.406	µg/L	1
Bromodichloromethane		<0.325	µg/L	1
2-Chloroethyl vinyl ether		<0.366	µg/L	5
cis-1,3-Dichloropropene		<0.387	µg/L	1
trans-1,3-Dichloropropene		<0.367	µg/L	1
Toluene		<0.366	µg/L	1
1,1,2-Trichloroethane		<0.397	µg/L	1
1,3-Dichloropropane		<0.355	µg/L	1
Dibromochloromethane		<0.315	µg/L	1
1,2-Dibromoethane (EDB)		<0.340	µg/L	1
Tetrachloroethene (PCE)		<0.355	µg/L	1
Chlorobenzene		<0.363	µg/L	1
1,1,1,2-Tetrachloroethane		<0.338	µg/L	1
Ethylbenzene		<0.350	µg/L	1
m,p-Xylene		<0.752	µg/L	1
Bromoform		<0.275	µg/L	1
Styrene		<0.395	µg/L	1
o-Xylene		<0.375	µg/L	1
1,1,2,2-Tetrachloroethane		<0.283	µg/L	1
2-Chlorotoluene		<0.445	µg/L	1
1,2,3-Trichloropropane		<0.430	µg/L	1
Isopropylbenzene		<0.521	µg/L	1
Bromobenzene		<0.494	µg/L	1
n-Propylbenzene		<0.483	µg/L	1
1,3,5-Trimethylbenzene		<0.487	µg/L	1
tert-Butylbenzene		<0.496	µg/L	1
1,2,4-Trimethylbenzene		<0.532	µg/L	1
1,4-Dichlorobenzene (para)		<0.413	µg/L	1
sec-Butylbenzene		<0.449	µg/L	1
1,3-Dichlorobenzene (meta)		<0.451	µg/L	1
p-Isopropyltoluene		<0.450	µg/L	1
4-Chlorotoluene		<0.489	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.438	µg/L	1
n-Butylbenzene		<0.461	µg/L	1
1,2-Dibromo-3-chloropropane		<0.532	µg/L	5
1,2,3-Trichlorobenzene		<0.288	µg/L	5
1,2,4-Trichlorobenzene		<0.273	µg/L	5
Naphthalene		<0.299	µg/L	5
Hexachlorobutadiene		<0.483	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.6	µg/L	1	50.0	93	82.4 - 115
Toluene-d8		47.3	µg/L	1	50.0	95	89.7 - 108
4-Bromofluorobenzene (4-BFB)		47.8	µg/L	1	50.0	96	84.6 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 31243 Date Analyzed: 2006-10-22 Analyzed By: JG
Prep Batch: 27203 QC Preparation: 2006-10-22 Prepared By: JG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	490	µg/Kg	1	500	<0.639	98	76.9 - 114
Benzene	485	µg/Kg	1	500	<0.644	97	79.7 - 113
Trichloroethene (TCE)	512	µg/Kg	1	500	<0.836	102	84.2 - 119
Toluene	478	µg/Kg	1	500	<1.12	96	82 - 110
Chlorobenzene	475	µg/Kg	1	500	<0.426	95	85.9 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethene	487	µg/Kg	1	500	<0.639	97	76.9 - 114	1	20
Benzene	502	µg/Kg	1	500	<0.644	100	79.7 - 113	3	20
Trichloroethene (TCE)	525	µg/Kg	1	500	<0.836	105	84.2 - 119	2	20
Toluene	500	µg/Kg	1	500	<1.12	100	82 - 110	4	20
Chlorobenzene	496	µg/Kg	1	500	<0.426	99	85.9 - 110	4	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
Dibromofluoromethane	489	487	µg/Kg	1	500	98	97	87 - 108
Toluene-d8	473	470	µg/Kg	1	500	95	94	92.3 - 106
4-Bromofluorobenzene (4-BFB)	464	463	µg/Kg	1	500	93	93	83.4 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 31277 Date Analyzed: 2006-10-24 Analyzed By: JG
Prep Batch: 27234 QC Preparation: 2006-10-24 Prepared By: JG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	49.2	µg/L	1	50.0	<0.326	98	83.4 - 114
MTBE	51.4	µg/L	1	50.0	<0.352	103	70 - 132
Benzene	50.7	µg/L	1	50.0	<0.356	101	83.5 - 115
Trichloroethene (TCE)	53.7	µg/L	1	50.0	<0.434	107	91.3 - 111
Toluene	50.6	µg/L	1	50.0	<0.366	101	82 - 110
Chlorobenzene	49.6	µg/L	1	50.0	<0.363	99	87.9 - 109
Ethylbenzene	47.7	µg/L	1	50.0	<0.350	95	82.4 - 116

continued . . .

control spikes continued . . .

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
m,p-Xylene	97.1	µg/L	1	50.0	<0.752	194	161 - 237
o-Xylene	49.3	µg/L	1	50.0	<0.375	99	82.1 - 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
1,1-Dichloroethene	49.0	µg/L	1	50.0	<0.326	98	83.4 - 114	0	20
MTBE	50.9	µg/L	1	50.0	<0.352	102	70 - 132	1	20
Benzene	51.1	µg/L	1	50.0	<0.356	102	83.5 - 115	1	20
Trichloroethene (TCE)	54.5	µg/L	1	50.0	<0.434	109	91.3 - 111	2	20
Toluene	50.7	µg/L	1	50.0	<0.366	101	82 - 110	0	20
Chlorobenzene	49.6	µg/L	1	50.0	<0.363	99	87.9 - 109	0	20
Ethylbenzene	47.4	µg/L	1	50.0	<0.350	95	82.4 - 116	1	20
m,p-Xylene	96.1	µg/L	1	50.0	<0.752	192	161 - 237	1	20
o-Xylene	49.2	µg/L	1	50.0	<0.375	98	82.1 - 119	0	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
Dibromofluoromethane	49.6	49.6	µg/L	1	50.0	99	99	82.4 - 115
Toluene-d8	47.2	47.2	µg/L	1	50.0	94	94	89.7 - 108
4-Bromofluorobenzene (4-BFB)	46.6	46.2	µg/L	1	50.0	93	92	84.6 - 114

Matrix Spike (MS-1) Spiked Sample: 106083

QC Batch: 31243 Date Analyzed: 2006-10-22 Analyzed By: JG
Prep Batch: 27203 QC Preparation: 2006-10-22 Prepared By: JG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	473	µg/Kg	1	500	<0.639	95	76.1 - 115
Benzene	488	µg/Kg	1	500	<0.644	98	82.1 - 110
Trichloroethene (TCE)	503	µg/Kg	1	500	<0.836	101	75.5 - 129
Toluene	477	µg/Kg	1	500	<1.12	95	82.3 - 108
Chlorobenzene	473	µg/Kg	1	500	<0.426	95	84.1 - 111

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
1,1-Dichloroethene	490	µg/Kg	1	500	<0.639	98	76.1 - 115	4	20
Benzene	503	µg/Kg	1	500	<0.644	101	82.1 - 110	3	20
Trichloroethene (TCE)	531	µg/Kg	1	500	<0.836	106	75.5 - 129	5	20
Toluene	500	µg/Kg	1	500	<1.12	100	82.3 - 108	5	20
Chlorobenzene	488	µg/Kg	1	500	<0.426	98	84.1 - 111	3	20

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

continued . . .

matrix spikes continued . . .

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	490	494	µg/Kg	1	500	98	99	87.9 - 105
Toluene-d8	476	464	µg/Kg	1	500	95	93	90.2 - 109
4-Bromofluorobenzene (4-BFB)	462	464	µg/Kg	1	500	92	93	82.9 - 116

Matrix Spike (MS-1) Spiked Sample: 106445

QC Batch: 31277 Date Analyzed: 2006-10-24 Analyzed By: JG
Prep Batch: 27234 QC Preparation: 2006-10-24 Prepared By: JG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	47.6	µg/L	1	50.0	<0.0736	95	78.7 - 119
MTBE	49.0	µg/L	1	50.0	<0.0504	98	46.6 - 162
Benzene	50.1	µg/L	1	50.0	<0.0495	100	75.8 - 125
Trichloroethene (TCE)	51.0	µg/L	1	50.0	<0.0495	102	83.6 - 112
Toluene	49.6	µg/L	1	50.0	<0.0736	99	81.6 - 115
Chlorobenzene	48.3	µg/L	1	50.0	<0.0217	97	83.9 - 113
Ethylbenzene	46.3	µg/L	1	50.0	<0.0566	93	75.4 - 121
m,p-Xylene	93.3	µg/L	1	50.0	<0.0363	187	148 - 247
o-Xylene	48.1	µg/L	1	50.0	<0.0504	96	75.4 - 126

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
1,1-Dichloroethene	47.0	µg/L	1	50.0	<0.0736	94	78.7 - 119	1	20
MTBE	49.3	µg/L	1	50.0	<0.0504	99	46.6 - 162	1	20
Benzene	49.3	µg/L	1	50.0	<0.0495	99	75.8 - 125	2	20
Trichloroethene (TCE)	51.0	µg/L	1	50.0	<0.0495	102	83.6 - 112	0	20
Toluene	49.1	µg/L	1	50.0	<0.0736	98	81.6 - 115	1	20
Chlorobenzene	48.0	µg/L	1	50.0	<0.0217	96	83.9 - 113	1	20
Ethylbenzene	46.0	µg/L	1	50.0	<0.0566	92	75.4 - 121	1	20
m,p-Xylene	93.2	µg/L	1	50.0	<0.0363	186	148 - 247	0	20
o-Xylene	47.6	µg/L	1	50.0	<0.0504	95	75.4 - 126	1	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
Dibromofluoromethane	50.1	49.8	µg/L	1	50	100	100	86.6 - 114
Toluene-d8	47.0	47.5	µg/L	1	50	94	95	91 - 109
4-Bromofluorobenzene (4-BFB)	45.9	46.1	µg/L	1	50	92	92	87.2 - 113

Standard (CCV-1)

QC Batch: 31243 Date Analyzed: 2006-10-22 Analyzed By: JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/Kg	50.0	49.9	100	80 - 120	2006-10-22
1,1-Dichloroethene		µg/Kg	50.0	52.6	105	80 - 120	2006-10-22
Chloroform		µg/Kg	50.0	51.8	104	80 - 120	2006-10-22
1,2-Dichloropropane		µg/Kg	50.0	55.0	110	80 - 120	2006-10-22
Toluene		µg/Kg	50.0	52.7	105	80 - 120	2006-10-22
Chlorobenzene		µg/Kg	50.0	51.6	103	80 - 120	2006-10-22
Ethylbenzene		µg/Kg	50.0	49.5	99	80 - 120	2006-10-22

Standard (CCV-2)

QC Batch: 31243 Date Analyzed: 2006-10-22 Analyzed By: JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/Kg	50.0	50.9	102	80 - 120	2006-10-22
1,1-Dichloroethene		µg/Kg	50.0	52.4	105	80 - 120	2006-10-22
Chloroform		µg/Kg	50.0	53.7	107	80 - 120	2006-10-22
1,2-Dichloropropane		µg/Kg	50.0	54.5	109	80 - 120	2006-10-22
Toluene		µg/Kg	50.0	52.4	105	80 - 120	2006-10-22
Chlorobenzene		µg/Kg	50.0	50.7	101	80 - 120	2006-10-22
Ethylbenzene		µg/Kg	50.0	49.0	98	80 - 120	2006-10-22

Standard (CCV-1)

QC Batch: 31277 Date Analyzed: 2006-10-24 Analyzed By: JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	41.5	83	80 - 120	2006-10-24
1,1-Dichloroethene		µg/L	50.0	49.4	99	80 - 120	2006-10-24
MTBE		µg/L	50.0	49.2	98	70 - 130	2006-10-24
Chloroform		µg/L	50.0	48.5	97	80 - 120	2006-10-24
Benzene		µg/L	50.0	49.6	99	70 - 130	2006-10-24
1,2-Dichloropropane		µg/L	50.0	51.5	103	80 - 120	2006-10-24
Toluene		µg/L	50.0	49.7	99	80 - 120	2006-10-24
Chlorobenzene		µg/L	50.0	49.9	100	80 - 120	2006-10-24
Ethylbenzene		µg/L	50.0	47.3	95	80 - 120	2006-10-24
m,p-Xylene		µg/L	50.0	95.2	190	140 - 260	2006-10-24
o-Xylene		µg/L	50.0	48.5	97	70 - 130	2006-10-24

Standard (CCV-2)

QC Batch: 31277 Date Analyzed: 2006-10-24 Analyzed By: JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	48.7	97	80 - 120	2006-10-24
1,1-Dichloroethene		µg/L	50.0	49.4	99	80 - 120	2006-10-24
MTBE		µg/L	50.0	51.5	103	70 - 130	2006-10-24
Chloroform		µg/L	50.0	50.9	102	80 - 120	2006-10-24
Benzene		µg/L	50.0	50.3	101	70 - 130	2006-10-24
1,2-Dichloropropane		µg/L	50.0	52.7	105	80 - 120	2006-10-24
Toluene		µg/L	50.0	49.7	99	80 - 120	2006-10-24
Chlorobenzene		µg/L	50.0	48.0	96	80 - 120	2006-10-24
Ethylbenzene		µg/L	50.0	45.3	91	80 - 120	2006-10-24
m,p-Xylene		µg/L	50.0	91.6	183	140 - 260	2006-10-24
o-Xylene		µg/L	50.0	47.8	96	70 - 130	2006-10-24

Analytical and Quality Control Report

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

Report Date: December 28, 2006

Work Order: 6101906

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
106218	HLSF-0085-SB-007(0.5-1.0)	soil	2006-10-17	09:40	2006-10-18
106219	HLSF-0085-SB-007(10.0-11.0)	soil	2006-10-17	10:05	2006-10-18
106220	HLSF-0085-SB-007(20.0-21.0)	soil	2006-10-17	10:20	2006-10-18
106221	HLSF-0085-SB-007(30.0-31.0)	soil	2006-10-17	11:00	2006-10-18
106222	HLSF-0085-SB-007(40.0-41.0)	soil	2006-10-17	11:25	2006-10-18
106223	HLSF-0085-SB-007(49.0-50.0)	soil	2006-10-17	12:00	2006-10-18
106224	HLSF-0085-SB-008(0.5-1.0)	soil	2006-10-17	14:00	2006-10-18
106225	HLSF-0085-SB-008(10.0-11.0)	soil	2006-10-17	14:45	2006-10-18
106226	HLSF-0085-SB-008(20.0-21.0)	soil	2006-10-17	15:20	2006-10-18
106227	HLSF-0085-SB-008(30.0-31.0)	soil	2006-10-17	15:50	2006-10-18

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 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 106218 - HLSF-0085-SB-007(0.5-1.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Silver		<0.0500		mg/Kg	1	0.0500
Total Arsenic		<2.00		mg/Kg	1	2.00
Total Barium		**75.2**		mg/Kg	1	1.00
Total Cadmium		<0.100		mg/Kg	1	0.100
Total Chromium		**8.80**		mg/Kg	1	0.500
Total Mercury		<0.0400		mg/Kg	1	0.0400
Total Lead		**16.3**		mg/Kg	1	1.00
Total Selenium		<1.00		mg/Kg	1	1.00

Sample: 106219 - HLSF-0085-SB-007(10.0-11.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Silver		<0.0500		mg/Kg	1	0.0500
Total Arsenic		<2.00		mg/Kg	1	2.00
Total Barium		**31.9**		mg/Kg	1	1.00
Total Cadmium		<0.100		mg/Kg	1	0.100
Total Chromium		**2.99**		mg/Kg	1	0.500
Total Mercury		<0.0400		mg/Kg	1	0.0400
Total Lead		**2.98**		mg/Kg	1	1.00
Total Selenium		<1.00		mg/Kg	1	1.00

Sample: 106220 - HLSF-0085-SB-007(20.0-21.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Silver		<0.0500		mg/Kg	1	0.0500
Total Arsenic		<2.00		mg/Kg	1	2.00
Total Barium		**75.5**		mg/Kg	1	1.00
Total Cadmium		<0.100		mg/Kg	1	0.100
Total Chromium		**7.57**		mg/Kg	1	0.500
Total Mercury		<0.0400		mg/Kg	1	0.0400
Total Lead		**11.9**		mg/Kg	1	1.00
Total Selenium		<1.00		mg/Kg	1	1.00

Sample: 106221 - HLSF-0085-SB-007(30.0-31.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Silver		<0.0500		mg/Kg	1	0.0500
Total Arsenic		**2.93**		mg/Kg	1	2.00
Total Barium		**14.8**		mg/Kg	1	1.00
Total Cadmium		<0.100		mg/Kg	1	0.100
Total Chromium		**8.67**		mg/Kg	1	0.500
Total Mercury		<0.0400		mg/Kg	1	0.0400
Total Lead		**13.5**		mg/Kg	1	1.00
Total Selenium		<1.00		mg/Kg	1	1.00

Sample: 106222 - HLSF-0085-SB-007(40.0-41.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Silver		<0.0500		mg/Kg	1	0.0500
Total Arsenic		<2.00		mg/Kg	1	2.00
Total Barium		**53.3**		mg/Kg	1	1.00
Total Cadmium		<0.100		mg/Kg	1	0.100
Total Chromium		**16.9**		mg/Kg	1	0.500
Total Mercury		<0.0400		mg/Kg	1	0.0400
Total Lead		**37.1**		mg/Kg	1	1.00
Total Selenium		<1.00		mg/Kg	1	1.00

Sample: 106223 - HLSF-0085-SB-007(49.0-50.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	Prepared By:	TP

Parameter	Flag	Result	RL Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		**3.19**	mg/Kg	1	2.00
Total Barium		**17.3**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**12.0**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**30.5**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 106224 - HLSF-0085-SB-008(0.5-1.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	Prepared By:	TP

Parameter	Flag	Result	RL Units	Dilution	RL
Total Silver		<0.0500	mg/Kg	1	0.0500
Total Arsenic		<2.00	mg/Kg	1	2.00
Total Barium		**70.6**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**9.06**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**17.3**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 106225 - HLSF-0085-SB-008(10.0-11.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	Prepared By:	TP

continued . . .

sample 106225 continued . . .

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		**3.28**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**3.57**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 106226 - HLSF-0085-SB-008(20.0-21.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31241	Date Analyzed:	2006-10-24	Analyzed By:	TP
Prep Batch:	27189	Sample Preparation:	2006-10-24	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		**82.1**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100
Total Chromium		**6.92**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**10.8**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Sample: 106227 - HLSF-0085-SB-008(30.0-31.0)

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	31183	Date Analyzed:	2006-10-23	Analyzed By:	RR
Prep Batch:	27154	Sample Preparation:	2006-10-23	Prepared By:	TS
Analysis:	Total 8 Metals	Analytical Method:	S 7471A	Prep Method:	N/A
QC Batch:	31242	Date Analyzed:	2006-10-25	Analyzed By:	TP
Prep Batch:	27190	Sample Preparation:	2006-10-24	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		**15.8**	mg/Kg	1	1.00
Total Cadmium		<0.100	mg/Kg	1	0.100

continued . . .

sample 106227 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**5.91**	mg/Kg	1	0.500
Total Mercury		<0.0400	mg/Kg	1	0.0400
Total Lead		**8.01**	mg/Kg	1	1.00
Total Selenium		<1.00	mg/Kg	1	1.00

Method Blank (1) QC Batch: 31183

QC Batch: 31183 Date Analyzed: 2006-10-23 Analyzed By: RR
Prep Batch: 27154 QC Preparation: 2006-10-23 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: 31241

QC Batch: 31241 Date Analyzed: 2006-10-24 Analyzed By: TP
Prep Batch: 27189 QC Preparation: 2006-10-24 Prepared By: TP

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

Method Blank (1) QC Batch: 31242

QC Batch: 31242 Date Analyzed: 2006-10-25 Analyzed By: TP
Prep Batch: 27190 QC Preparation: 2006-10-24 Prepared By: TP

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

Laboratory Control Spike (LCS-1)

QC Batch: 31183 Date Analyzed: 2006-10-23 Analyzed By: RR
Prep Batch: 27154 QC Preparation: 2006-10-23 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	11.5	mg/Kg	1	12.5	<0.00444	92	85 - 113
Total Arsenic	43.9	mg/Kg	1	50.0	<0.228	88	85 - 111
Total Barium	91.2	mg/Kg	1	100	<0.0601	91	85 - 103
Total Cadmium	22.6	mg/Kg	1	25.0	<0.00794	90	85 - 115
Total Chromium	10.1	mg/Kg	1	10.0	<0.0125	101	85 - 115
Total Lead	44.9	mg/Kg	1	50.0	<0.367	90	85 - 115
Total Selenium	39.6	mg/Kg	1	50.0	<0.0767	79	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	1	20
Total Arsenic	45.0	mg/Kg	1	50.0	<0.228	90	85 - 111	2	20
Total Barium	92.8	mg/Kg	1	100	<0.0601	93	85 - 103	2	20
Total Cadmium	22.7	mg/Kg	1	25.0	<0.00794	91	85 - 115	0	20
Total Chromium	10.5	mg/Kg	1	10.0	<0.0125	105	85 - 115	4	20
Total Lead	45.4	mg/Kg	1	50.0	<0.367	91	85 - 115	1	20
Total Selenium	39.5	mg/Kg	1	50.0	<0.0767	79	75 - 125	0	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: 31241 Date Analyzed: 2006-10-24 Analyzed By: TP
Prep Batch: 27189 QC Preparation: 2006-10-24 Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.509	mg/Kg	1	0.500	<0.00299	102	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	0.521	mg/Kg	1	0.500	<0.00299	104	85.2 - 118	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: 31242 Date Analyzed: 2006-10-25 Analyzed By: TP
Prep Batch: 27190 QC Preparation: 2006-10-24 Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.492	mg/Kg	1	0.500	<0.00299	98	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	0.463	mg/Kg	1	0.500	<0.00299	93	85.2 - 118	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: 106218

QC Batch: 31183 Date Analyzed: 2006-10-23 Analyzed By: RR
Prep Batch: 27154 QC Preparation: 2006-10-23 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	10.6	mg/Kg	1	12.5	<0.00444	85	78.1 - 115
Total Arsenic	44.3	mg/Kg	1	50.0	<0.228	89	75 - 114
Total Barium	156	mg/Kg	1	100	75.2	81	75.7 - 123
Total Cadmium	21.5	mg/Kg	1	25.0	<0.00794	86	75 - 112
Total Chromium	18.7	mg/Kg	1	10.0	8.8	99	75 - 125
Total Lead	59.1	mg/Kg	1	50.0	16.3	86	75 - 125
Total Selenium	39.3	mg/Kg	1	50.0	<0.0767	79	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	11.0	mg/Kg	1	0.00	<0.00444	88	78.1 - 115	4	20
Total Arsenic	46.0	mg/Kg	1	0.00	<0.228	92	75 - 114	4	20
Total Barium	161	mg/Kg	1	0.00	75.2	86	75.7 - 123	3	20
Total Cadmium	21.2	mg/Kg	1	0.00	<0.00794	85	75 - 112	1	20
Total Chromium	19.7	mg/Kg	1	0.00	8.8	109	75 - 125	5	20
Total Lead	62.2	mg/Kg	1	0.00	16.3	92	75 - 125	5	20
Total Selenium	39.3	mg/Kg	1	0.00	<0.0767	79	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: 106218

QC Batch: 31241 Date Analyzed: 2006-10-24 Analyzed By: TP
Prep Batch: 27189 QC Preparation: 2006-10-24 Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.473	mg/Kg	1	0.500	0.00667	93	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	0.532	mg/Kg	1	0.00	0.00667	105	77.6 - 124	12	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: 106227

QC Batch: 31242 Date Analyzed: 2006-10-25 Analyzed By: TP
Prep Batch: 27190 QC Preparation: 2006-10-24 Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.494	mg/Kg	1	0.500	<0.00299	99	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	0.478	mg/Kg	1	0.00	<0.00299	96	77.6 - 124	3	20

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

Standard (ICV-1)

QC Batch: 31183 Date Analyzed: 2006-10-23 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	0.126	101	90 - 110	2006-10-23
Total Arsenic		mg/Kg	1.00	0.997	100	95 - 105	2006-10-23
Total Barium		mg/Kg	1.00	1.01	101	95 - 105	2006-10-23
Total Cadmium		mg/Kg	1.00	1.00	100	95 - 105	2006-10-23
Total Chromium		mg/Kg	1.00	0.994	99	90 - 110	2006-10-23
Total Lead		mg/Kg	1.00	1.00	100	90 - 110	2006-10-23
Total Selenium		mg/Kg	1.00	1.01	101	90 - 110	2006-10-23

Standard (CCV-1)

QC Batch: 31183 Date Analyzed: 2006-10-23 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	0.123	98	90 - 110	2006-10-23
Total Arsenic		mg/Kg	1.00	0.993	99	90 - 110	2006-10-23
Total Barium		mg/Kg	1.00	0.974	97	90 - 110	2006-10-23
Total Cadmium		mg/Kg	1.00	0.976	98	90 - 110	2006-10-23
Total Chromium		mg/Kg	1.00	0.967	97	90 - 110	2006-10-23
Total Lead		mg/Kg	1.00	0.989	99	90 - 110	2006-10-23
Total Selenium		mg/Kg	1.00	1.00	100	90 - 110	2006-10-23

Standard (ICV-1)

QC Batch: 31241 Date Analyzed: 2006-10-24 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	0.00505	101	90 - 110	2006-10-24

Standard (CCV-1)

QC Batch: 31241 Date Analyzed: 2006-10-24 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	0.00494	99	80 - 120	2006-10-24

Standard (ICV-1)

QC Batch: 31242 Date Analyzed: 2006-10-25 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	0.00505	101	90 - 110	2006-10-25

Standard (CCV-1)

QC Batch: 31242 Date Analyzed: 2006-10-25 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	0.00509	102	80 - 120	2006-10-25