Analytical and Quality Control Report

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Report Date: January 4, 2007

Work Order: 6112109

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
109577	HLSF-0085-SB-013(10.0-11.0)	soil	2006-11-16	08:45	2006-11-17
109578	HLSF-0085-SB-013(20.0-21.0)	soil	2006-11-16	09:00	2006-11-17
109579	HLSF-0085-SB-013(30.0-31.0)	soil	2006-11-16	09:25	2006-11-17
109580	HLSF-0085-SB-013(40.0-41.0)	soil	2006-11-16	09:55	2006-11-17
109581	HLSF-0085-SB-013(49.0-50.0)	soil	2006-11-16	10:25	2006-11-17
109582	HLSF-0085-SB-011(10.0-11.0)	soil	2006-11-16	13:15	2006-11-17
109583	HLSF-0085-SB-011(20.0-21.0)	soil	2006-11-16	13:35	2006-11-17
109584	HLSF-0085-SB-011(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109585	HLSF-0085-SB-111(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109586	HLSF-0085-SB-011(40.0-42.0)	soil	2006-11-16	14:15	2006-11-17
109588	HLSF-0085-SB-011(49.0-50.0)	soil	2006-11-16	14:35	2006-11-17
109589	HLSF-0085-SB-016(10.0-11.0)	soil	2006-11-16	15:50	2006-11-17
109590	HLSF-0085-SB-016(20.0-21.0)	soil	2006-11-16	16:05	2006-11-17
109591	HLSF-0085-TB-598	water	2006-11-16	08:40	2006-11-17

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 36 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: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Isopropyl Alcohol		<200	µg/kg	1	200
Bromochloromethane		<10.0	µg/Kg	1	10.0
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
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		<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		<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

continued . . .

sample 109577 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		495	µg/Kg	1	500	99	42 - 129
Toluene-d8		523	µg/Kg	1	500	105	93 - 107
4-Bromofluorobenzene (4-BFB)		513	µg/Kg	1	500	103	78 - 120

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Isopropyl Alcohol		<200	µg/kg	1	200
Bromochloromethane		<10.0	µg/Kg	1	10.0
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500

continued . . .

sample 109578 continued . . .

Parameter	Flag	RL Result	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		<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		<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 109578 continued . . .

Parameter	Flag	RL Result	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		506	µg/Kg	1	500	101	93 - 107
4-Bromofluorobenzene (4-BFB)		529	µg/Kg	1	500	106	78 - 120

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Isopropyl Alcohol		<200	µg/kg	1	200
Bromochloromethane		<10.0	µg/Kg	1	10.0
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Tert-butyl Alcohol		<200	µg/kg	1	200
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
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

continued . . .

sample 109579 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		<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		<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

continued . . .

sample 109579 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		476	µg/Kg	1	500	95	42 - 129
Toluene-d8		509	µg/Kg	1	500	102	93 - 107
4-Bromofluorobenzene (4-BFB)		521	µg/Kg	1	500	104	78 - 120

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<200	µg/Kg	20	10.0
Isopropyl Alcohol		<4000	µg/kg	20	200
Dichlorodifluoromethane		<200	µg/Kg	20	10.0
Tert-butyl Alcohol		<4000	µg/kg	20	200
Chloromethane (methyl chloride)		<200	µg/Kg	20	10.0
1,4-Dioxane		<10000	µg/kg	20	500
Vinyl Chloride		<200	µg/Kg	20	10.0
Bromomethane (methyl bromide)		<1000	µg/Kg	20	50.0
Chloroethane		<200	µg/Kg	20	10.0
Trichlorofluoromethane		<200	µg/Kg	20	10.0
Acetone		<2000	µg/Kg	20	100
Iodomethane (methyl iodide)		<1000	µg/Kg	20	50.0
Carbon Disulfide		<200	µg/Kg	20	10.0
Acrylonitrile		<200	µg/Kg	20	10.0
2-Butanone (MEK)		<1000	µg/Kg	20	50.0
4-Methyl-2-pentanone (MIBK)		<1000	µg/Kg	20	50.0
2-Hexanone		<1000	µg/Kg	20	50.0
trans 1,4-Dichloro-2-butene		<2000	µg/Kg	20	100
1,1-Dichloroethene		<200	µg/Kg	20	10.0
Methylene chloride		<1000	µg/Kg	20	50.0
MTBE		<200	µg/Kg	20	10.0
trans-1,2-Dichloroethene		<200	µg/Kg	20	10.0
1,1-Dichloroethane		<200	µg/Kg	20	10.0
cis-1,2-Dichloroethene		<200	µg/Kg	20	10.0
2,2-Dichloropropane		<200	µg/Kg	20	10.0

continued . . .

sample 109580 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
1,2-Dichloroethane (EDC)		<200	µg/Kg	20	10.0
Chloroform		<200	µg/Kg	20	10.0
1,1,1-Trichloroethane		<200	µg/Kg	20	10.0
1,1-Dichloropropene		<200	µg/Kg	20	10.0
Benzene		<200	µg/Kg	20	10.0
Carbon Tetrachloride		<200	µg/Kg	20	10.0
1,2-Dichloropropane		<200	µg/Kg	20	10.0
Trichloroethene (TCE)		<200	µg/Kg	20	10.0
Dibromomethane (methylene bromide)		<200	µg/Kg	20	10.0
Bromodichloromethane		<200	µg/Kg	20	10.0
2-Chloroethyl vinyl ether		<1000	µg/Kg	20	50.0
cis-1,3-Dichloropropene		<200	µg/Kg	20	10.0
trans-1,3-Dichloropropene		<200	µg/Kg	20	10.0
Toluene		<200	µg/Kg	20	10.0
1,1,2-Trichloroethane		<200	µg/Kg	20	10.0
1,3-Dichloropropane		<200	µg/Kg	20	10.0
Dibromochloromethane		<200	µg/Kg	20	10.0
1,2-Dibromoethane (EDB)		<200	µg/Kg	20	10.0
Tetrachloroethene (PCE)		<200	µg/Kg	20	10.0
Chlorobenzene		<200	µg/Kg	20	10.0
1,1,1,2-Tetrachloroethane		<200	µg/Kg	20	10.0
Ethylbenzene		<200	µg/Kg	20	10.0
m,p-Xylene		<200	µg/Kg	20	10.0
Bromoform		<200	µg/Kg	20	10.0
Styrene		<200	µg/Kg	20	10.0
o-Xylene		<200	µg/Kg	20	10.0
1,1,2,2-Tetrachloroethane		<200	µg/Kg	20	10.0
2-Chlorotoluene		<200	µg/Kg	20	10.0
1,2,3-Trichloropropane		<200	µg/Kg	20	10.0
Isopropylbenzene		**346**	µg/Kg	20	10.0
Bromobenzene		<200	µg/Kg	20	10.0
n-Propylbenzene		**555**	µg/Kg	20	10.0
1,3,5-Trimethylbenzene		**320**	µg/Kg	20	10.0
tert-Butylbenzene		<200	µg/Kg	20	10.0
1,2,4-Trimethylbenzene		**1260**	µg/Kg	20	10.0
1,4-Dichlorobenzene (para)		<200	µg/Kg	20	10.0
sec-Butylbenzene		**936**	µg/Kg	20	10.0
1,3-Dichlorobenzene (meta)		<200	µg/Kg	20	10.0
p-Isopropyltoluene		**533**	µg/Kg	20	10.0
4-Chlorotoluene		<200	µg/Kg	20	10.0
1,2-Dichlorobenzene (ortho)		<200	µg/Kg	20	10.0
n-Butylbenzene		**925**	µg/Kg	20	10.0
1,2-Dibromo-3-chloropropane		<1000	µg/Kg	20	50.0
1,2,3-Trichlorobenzene		<1000	µg/Kg	20	50.0
1,2,4-Trichlorobenzene		<1000	µg/Kg	20	50.0
Naphthalene		**2560**	µg/Kg	20	50.0
Hexachlorobutadiene		<1000	µg/Kg	20	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		957	µg/Kg	20	1000	96	42 - 129
Toluene-d8		996	µg/Kg	20	1000	100	93 - 107
4-Bromofluorobenzene (4-BFB)		1080	µg/Kg	20	1000	108	78 - 120

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Isopropyl Alcohol		<200	µg/kg	1	200
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
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		<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

continued . . .

sample 109581 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<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		**12.5**	µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1	10.0
sec-Butylbenzene		**14.4**	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		**15.7**	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		**50.6**	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		495	µg/Kg	1	500	99	42 - 129
Toluene-d8		514	µg/Kg	1	500	103	93 - 107
4-Bromofluorobenzene (4-BFB)		526	µg/Kg	1	500	105	78 - 120

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Isopropyl Alcohol		<200	µg/kg	1	200
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
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		<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		<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

continued . . .

sample 109582 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		484	µg/Kg	1	500	97	42 - 129
Toluene-d8		510	µg/Kg	1	500	102	93 - 107
4-Bromofluorobenzene (4-BFB)		527	µg/Kg	1	500	105	78 - 120

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Isopropyl Alcohol		<200	µg/kg	1	200
Bromochloromethane		<10.0	µg/Kg	1	10.0
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
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

continued . . .

sample 109583 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		<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		<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		**11.6**	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		**43.2**	µg/Kg	1	10.0
Bromobenzene		<10.0	µg/Kg	1	10.0
n-Propylbenzene		**37.0**	µg/Kg	1	10.0
1,3,5-Trimethylbenzene		**29.3**	µg/Kg	1	10.0
tert-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2,4-Trimethylbenzene		**113**	µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1	10.0

continued . . .

sample 109583 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
sec-Butylbenzene		**121**	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		**158**	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		**388**	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		484	µg/Kg	1	500	97	42 - 129
Toluene-d8		516	µg/Kg	1	500	103	93 - 107
4-Bromofluorobenzene (4-BFB)		540	µg/Kg	1	500	108	78 - 120

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Isopropyl Alcohol		<4000	µg/kg	20	200
Bromochloromethane		<200	µg/Kg	20	10.0
Tert-butyl Alcohol		<4000	µg/kg	20	200
Dichlorodifluoromethane		<200	µg/Kg	20	10.0
1,4-Dioxane		<10000	µg/kg	20	500
Chloromethane (methyl chloride)		<200	µg/Kg	20	10.0
Vinyl Chloride		<200	µg/Kg	20	10.0
Bromomethane (methyl bromide)		<1000	µg/Kg	20	50.0
Chloroethane		<200	µg/Kg	20	10.0
Trichlorofluoromethane		<200	µg/Kg	20	10.0
Acetone		<2000	µg/Kg	20	100
Iodomethane (methyl iodide)		<1000	µg/Kg	20	50.0
Carbon Disulfide		<200	µg/Kg	20	10.0
Acrylonitrile		<200	µg/Kg	20	10.0
2-Butanone (MEK)		<1000	µg/Kg	20	50.0
4-Methyl-2-pentanone (MIBK)		<1000	µg/Kg	20	50.0
2-Hexanone		<1000	µg/Kg	20	50.0
trans 1,4-Dichloro-2-butene		<2000	µg/Kg	20	100
1,1-Dichloroethene		<200	µg/Kg	20	10.0
Methylene chloride		<1000	µg/Kg	20	50.0
MTBE		<200	µg/Kg	20	10.0
trans-1,2-Dichloroethene		<200	µg/Kg	20	10.0

continued . . .

sample 109584 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
1,1-Dichloroethane		<200	µg/Kg	20	10.0
cis-1,2-Dichloroethene		<200	µg/Kg	20	10.0
2,2-Dichloropropane		<200	µg/Kg	20	10.0
1,2-Dichloroethane (EDC)		<200	µg/Kg	20	10.0
Chloroform		<200	µg/Kg	20	10.0
1,1,1-Trichloroethane		<200	µg/Kg	20	10.0
1,1-Dichloropropene		<200	µg/Kg	20	10.0
Benzene		<200	µg/Kg	20	10.0
Carbon Tetrachloride		<200	µg/Kg	20	10.0
1,2-Dichloropropane		<200	µg/Kg	20	10.0
Trichloroethene (TCE)		<200	µg/Kg	20	10.0
Dibromomethane (methylene bromide)		<200	µg/Kg	20	10.0
Bromodichloromethane		<200	µg/Kg	20	10.0
2-Chloroethyl vinyl ether		<1000	µg/Kg	20	50.0
cis-1,3-Dichloropropene		<200	µg/Kg	20	10.0
trans-1,3-Dichloropropene		<200	µg/Kg	20	10.0
Toluene		<200	µg/Kg	20	10.0
1,1,2-Trichloroethane		<200	µg/Kg	20	10.0
1,3-Dichloropropane		<200	µg/Kg	20	10.0
Dibromochloromethane		<200	µg/Kg	20	10.0
1,2-Dibromoethane (EDB)		<200	µg/Kg	20	10.0
Tetrachloroethene (PCE)		<200	µg/Kg	20	10.0
Chlorobenzene		<200	µg/Kg	20	10.0
1,1,1,2-Tetrachloroethane		<200	µg/Kg	20	10.0
Ethylbenzene		<200	µg/Kg	20	10.0
m,p-Xylene		<200	µg/Kg	20	10.0
Bromoform		<200	µg/Kg	20	10.0
Styrene		<200	µg/Kg	20	10.0
o-Xylene		<200	µg/Kg	20	10.0
1,1,2,2-Tetrachloroethane		<200	µg/Kg	20	10.0
2-Chlorotoluene		<200	µg/Kg	20	10.0
1,2,3-Trichloropropane		<200	µg/Kg	20	10.0
Isopropylbenzene		<200	µg/Kg	20	10.0
Bromobenzene		<200	µg/Kg	20	10.0
n-Propylbenzene		<200	µg/Kg	20	10.0
1,3,5-Trimethylbenzene		**845**	µg/Kg	20	10.0
tert-Butylbenzene		<200	µg/Kg	20	10.0
1,2,4-Trimethylbenzene		**3120**	µg/Kg	20	10.0
1,4-Dichlorobenzene (para)		<200	µg/Kg	20	10.0
sec-Butylbenzene		**282**	µg/Kg	20	10.0
1,3-Dichlorobenzene (meta)		<200	µg/Kg	20	10.0
p-Isopropyltoluene		**311**	µg/Kg	20	10.0
4-Chlorotoluene		<200	µg/Kg	20	10.0
1,2-Dichlorobenzene (ortho)		<200	µg/Kg	20	10.0
n-Butylbenzene		**277**	µg/Kg	20	10.0
1,2-Dibromo-3-chloropropane		<1000	µg/Kg	20	50.0
1,2,3-Trichlorobenzene		<1000	µg/Kg	20	50.0
1,2,4-Trichlorobenzene		<1000	µg/Kg	20	50.0
Naphthalene		<1000	µg/Kg	20	50.0

continued . . .

sample 109584 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Hexachlorobutadiene		<1000	µg/Kg	20	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		954	µg/Kg	20	1000	95	42 - 129
Toluene-d8		987	µg/Kg	20	1000	99	93 - 107
4-Bromofluorobenzene (4-BFB)		1080	µg/Kg	20	1000	108	78 - 120

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Isopropyl Alcohol		<200	µg/kg	1	200
Bromochloromethane		<10.0	µg/Kg	1	10.0
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
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		<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

continued . . .

sample 109585 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		<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		**114**	µg/Kg	1	10.0
Bromoform		<10.0	µg/Kg	1	10.0
Styrene		<10.0	µg/Kg	1	10.0
o-Xylene		**11.3**	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		**54.7**	µg/Kg	1	10.0
Bromobenzene		<10.0	µg/Kg	1	10.0
n-Propylbenzene		**57.3**	µg/Kg	1	10.0
1,3,5-Trimethylbenzene		**978**	µg/Kg	1	10.0
tert-Butylbenzene		<10.0	µg/Kg	1	10.0
1,2,4-Trimethylbenzene	[1]	**3330**	µg/Kg	1	10.0
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1	10.0
sec-Butylbenzene		**322**	µg/Kg	1	10.0
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1	10.0
p-Isopropyltoluene		**347**	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		**293**	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		**580**	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		489	µg/Kg	1	500	98	93 - 107
4-Bromofluorobenzene (4-BFB)		559	µg/Kg	1	500	112	78 - 120

[1] Estimated concentration value greater than standard range.

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Isopropyl Alcohol		<4000	µg/kg	20	200
Bromochloromethane		<200	µg/Kg	20	10.0
Dichlorodifluoromethane		<200	µg/Kg	20	10.0
Tert-butyl Alcohol		<4000	µg/kg	20	200
1,4-Dioxane		<10000	µg/kg	20	500
Chloromethane (methyl chloride)		<200	µg/Kg	20	10.0
Vinyl Chloride		<200	µg/Kg	20	10.0
Bromomethane (methyl bromide)		<1000	µg/Kg	20	50.0
Chloroethane		<200	µg/Kg	20	10.0
Trichlorofluoromethane		<200	µg/Kg	20	10.0
Acetone		<2000	µg/Kg	20	100
Iodomethane (methyl iodide)		<1000	µg/Kg	20	50.0
Carbon Disulfide		<200	µg/Kg	20	10.0
Acrylonitrile		<200	µg/Kg	20	10.0
2-Butanone (MEK)		<1000	µg/Kg	20	50.0
4-Methyl-2-pentanone (MIBK)		<1000	µg/Kg	20	50.0
2-Hexanone		<1000	µg/Kg	20	50.0
trans 1,4-Dichloro-2-butene		<2000	µg/Kg	20	100
1,1-Dichloroethene		<200	µg/Kg	20	10.0
Methylene chloride		<1000	µg/Kg	20	50.0
MTBE		<200	µg/Kg	20	10.0
trans-1,2-Dichloroethene		<200	µg/Kg	20	10.0
1,1-Dichloroethane		<200	µg/Kg	20	10.0
cis-1,2-Dichloroethene		<200	µg/Kg	20	10.0
2,2-Dichloropropane		<200	µg/Kg	20	10.0
1,2-Dichloroethane (EDC)		<200	µg/Kg	20	10.0
Chloroform		<200	µg/Kg	20	10.0
1,1,1-Trichloroethane		<200	µg/Kg	20	10.0
1,1-Dichloropropene		<200	µg/Kg	20	10.0
Benzene		**244**	µg/Kg	20	10.0
Carbon Tetrachloride		<200	µg/Kg	20	10.0
1,2-Dichloropropane		<200	µg/Kg	20	10.0
Trichloroethene (TCE)		<200	µg/Kg	20	10.0
Dibromomethane (methylene bromide)		<200	µg/Kg	20	10.0
Bromodichloromethane		<200	µg/Kg	20	10.0
2-Chloroethyl vinyl ether		<1000	µg/Kg	20	50.0
cis-1,3-Dichloropropene		<200	µg/Kg	20	10.0
trans-1,3-Dichloropropene		<200	µg/Kg	20	10.0
Toluene		<200	µg/Kg	20	10.0
1,1,2-Trichloroethane		<200	µg/Kg	20	10.0
1,3-Dichloropropane		<200	µg/Kg	20	10.0
Dibromochloromethane		<200	µg/Kg	20	10.0
1,2-Dibromoethane (EDB)		<200	µg/Kg	20	10.0
Tetrachloroethene (PCE)		<200	µg/Kg	20	10.0
Chlorobenzene		<200	µg/Kg	20	10.0
1,1,1,2-Tetrachloroethane		<200	µg/Kg	20	10.0

continued . . .

sample 109586 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		**647**	µg/Kg	20	10.0
m,p-Xylene		<200	µg/Kg	20	10.0
Bromoform		<200	µg/Kg	20	10.0
Styrene		<200	µg/Kg	20	10.0
o-Xylene		**367**	µg/Kg	20	10.0
1,1,2,2-Tetrachloroethane		<200	µg/Kg	20	10.0
2-Chlorotoluene		<200	µg/Kg	20	10.0
1,2,3-Trichloropropane		<200	µg/Kg	20	10.0
Isopropylbenzene		**1540**	µg/Kg	20	10.0
Bromobenzene		<200	µg/Kg	20	10.0
n-Propylbenzene		**1390**	µg/Kg	20	10.0
1,3,5-Trimethylbenzene		**2660**	µg/Kg	20	10.0
tert-Butylbenzene		<200	µg/Kg	20	10.0
1,2,4-Trimethylbenzene	2	**6700**	µg/Kg	20	10.0
1,4-Dichlorobenzene (para)		<200	µg/Kg	20	10.0
sec-Butylbenzene		**2740**	µg/Kg	20	10.0
1,3-Dichlorobenzene (meta)		<200	µg/Kg	20	10.0
p-Isopropyltoluene		**611**	µg/Kg	20	10.0
4-Chlorotoluene		<200	µg/Kg	20	10.0
1,2-Dichlorobenzene (ortho)		<200	µg/Kg	20	10.0
n-Butylbenzene		**2770**	µg/Kg	20	10.0
1,2-Dibromo-3-chloropropane		<1000	µg/Kg	20	50.0
1,2,3-Trichlorobenzene		<1000	µg/Kg	20	50.0
1,2,4-Trichlorobenzene		<1000	µg/Kg	20	50.0
Naphthalene	3	**6240**	µg/Kg	20	50.0
Hexachlorobutadiene		<1000	µg/Kg	20	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		932	µg/Kg	20	1000	93	42 - 129
Toluene-d8		976	µg/Kg	20	1000	98	93 - 107
4-Bromofluorobenzene (4-BFB)		1110	µg/Kg	20	1000	111	78 - 120

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Isopropyl Alcohol		<200	µg/kg	1	200
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
Vinyl Chloride		<10.0	µg/Kg	1	10.0

[2]Estimated concentration value greater than standard range.
[3]Estimated concentration value greater than standard range.

continued . . .

sample 109588 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		<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		<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

continued . . .

sample 109588 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		**13.3**	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		**78.9**	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		476	µg/Kg	1	500	95	42 - 129
Toluene-d8		503	µg/Kg	1	500	101	93 - 107
4-Bromofluorobenzene (4-BFB)		529	µg/Kg	1	500	106	78 - 120

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	Sample Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Isopropyl Alcohol		<200	µg/kg	1	200
Bromochloromethane		<10.0	µg/Kg	1	10.0
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
Chloromethane (methyl chloride)		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
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

continued . . .

sample 109589 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
trans 1,4-Dichloro-2-butene		<100	µg/Kg	1	100
1,1-Dichloroethene		<10.0	µg/Kg	1	10.0
Methylene chloride		<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		<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

continued . . .

sample 109589 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		509	µg/Kg	1	500	102	93 - 107
4-Bromofluorobenzene (4-BFB)		529	µg/Kg	1	500	106	78 - 120

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	32323	Date Analyzed:	2006-11-28	Analyzed By:	JG
Prep Batch:	28151	Sample Preparation:	2006-11-28	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<10.0	µg/Kg	1	10.0
Isopropyl Alcohol		<200	µg/kg	1	200
Tert-butyl Alcohol		<200	µg/kg	1	200
Dichlorodifluoromethane		<10.0	µg/Kg	1	10.0
1,4-Dioxane		<500	µg/kg	1	500
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		<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

continued . . .

sample 109590 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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		<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		**42.4**	µg/Kg	1	10.0
Bromobenzene		<10.0	µg/Kg	1	10.0
n-Propylbenzene		**41.0**	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		**123**	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		**163**	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		**425**	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		477	µg/Kg	1	500	95	42 - 129

continued . . .

sample continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Toluene-d8		498	µg/Kg	1	500	100	93 - 107
4-Bromofluorobenzene (4-BFB)		522	µg/Kg	1	500	104	78 - 120

Sample: 109591 - HLSF-0085-TB-598

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 3510C
QC Batch:	32322	Date Analyzed:	2006-11-27	Analyzed By:	JG
Prep Batch:	28150	Sample Preparation:	2006-11-27	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		<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		<1.00	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		<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		<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 109591 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
Isopropyl Alcohol		<5.00	µg/L	1	5.00
Tert-butyl Alcohol		<5.00	µg/L	1	5.00
1,4-Dioxane		<5.00	µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.6	µg/L	1	50.0	97	82.4 - 115
Toluene-d8		50.2	µg/L	1	50.0	100	89.7 - 108
4-Bromofluorobenzene (4-BFB)		48.4	µg/L	1	50.0	97	84.6 - 114

Method Blank (1) QC Batch: 32295

QC Batch:	32295	Date Analyzed:	2006-11-26	Analyzed By:	JG
Prep Batch:	28123	QC Preparation:	2006-11-26	Prepared By:	JG

Parameter	Flag	MDL Result	Units	RL
Isopropyl Alcohol		<85.5	µg/kg	200
Bromochloromethane		<0.825	µg/Kg	10
Tert-butyl Alcohol		<88.1	µg/kg	200
Dichlorodifluoromethane		<0.889	µg/Kg	10
1,4-Dioxane		<176	µg/kg	500
Chloromethane (methyl chloride)		<0.929	µg/Kg	10
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		21.1	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		0.790	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		1.75	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)		1.91	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

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
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
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		494	µg/Kg	1	500	99	42 - 129
Toluene-d8		528	µg/Kg	1	500	106	93 - 107
4-Bromofluorobenzene (4-BFB)		516	µg/Kg	1	500	103	78 - 120

Method Blank (1) QC Batch: 32322

QC Batch:	32322	Date Analyzed:	2006-11-27	Analyzed By:	JG
Prep Batch:	28150	QC Preparation:	2006-11-27	Prepared By:	JG

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.0699	µg/L	1
Dichlorodifluoromethane		<0.0598	µg/L	1
Chloromethane (methyl chloride)		<0.230	µg/L	1
Vinyl Chloride		<0.0902	µg/L	1
Bromomethane (methyl bromide)		<0.740	µg/L	5
Chloroethane		<0.195	µg/L	1
Trichlorofluoromethane		<0.160	µg/L	1
Acetone		<0.854	µg/L	10
Iodomethane (methyl iodide)		<0.112	µg/L	5
Carbon Disulfide		<0.0764	µg/L	1
Acrylonitrile		<0.184	µg/L	1
2-Butanone (MEK)		<0.394	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.484	µg/L	5
2-Hexanone		<0.0975	µg/L	5

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
trans 1,4-Dichloro-2-butene		<0.420	µg/L	10
1,1-Dichloroethene		<0.0736	µg/L	1
Methylene chloride		1.66	µg/L	5
MTBE		<0.0504	µg/L	1
trans-1,2-Dichloroethene		<0.0598	µg/L	1
1,1-Dichloroethane		<0.0299	µg/L	1
cis-1,2-Dichloroethene		<0.101	µg/L	1
2,2-Dichloropropane		<0.0665	µg/L	1
1,2-Dichloroethane (EDC)		<0.0557	µg/L	1
Chloroform		<0.0475	µg/L	1
1,1,1-Trichloroethane		<0.0846	µg/L	1
1,1-Dichloropropene		<0.0423	µg/L	1
Benzene		<0.0495	µg/L	1
Carbon Tetrachloride		<0.121	µg/L	1
1,2-Dichloropropane		<0.0933	µg/L	1
Trichloroethene (TCE)		0.0500	µg/L	1
Dibromomethane (methylene bromide)		<0.0640	µg/L	1
Bromodichloromethane		<0.0651	µg/L	1
2-Chloroethyl vinyl ether		<0.0905	µg/L	5
cis-1,3-Dichloropropene		<0.0640	µg/L	1
trans-1,3-Dichloropropene		<0.0504	µg/L	1
Toluene		0.430	µg/L	1
1,1,2-Trichloroethane		<0.106	µg/L	1
1,3-Dichloropropane		<0.0625	µg/L	1
Dibromochloromethane		<0.0791	µg/L	1
1,2-Dibromoethane (EDB)		<0.0460	µg/L	1
Tetrachloroethene (PCE)		<0.0696	µg/L	1
Chlorobenzene		<0.0217	µg/L	1
1,1,1,2-Tetrachloroethane		<0.125	µg/L	1
Ethylbenzene		0.110	µg/L	1
m,p-Xylene		0.170	µg/L	1
Bromoform		<0.0859	µg/L	1
Styrene		<0.0394	µg/L	1
o-Xylene		0.0900	µg/L	1
1,1,2,2-Tetrachloroethane		<0.0672	µg/L	1
2-Chlorotoluene		<0.0283	µg/L	1
1,2,3-Trichloropropane		<0.0679	µg/L	1
Isopropylbenzene		<0.0406	µg/L	1
Bromobenzene		<0.103	µg/L	1
n-Propylbenzene		<0.0423	µg/L	1
1,3,5-Trimethylbenzene		<0.0557	µg/L	1
tert-Butylbenzene		<0.0770	µg/L	1
1,2,4-Trimethylbenzene		<0.0336	µg/L	1
1,4-Dichlorobenzene (para)		<0.0672	µg/L	1
sec-Butylbenzene		<0.0439	µg/L	1
1,3-Dichlorobenzene (meta)		<0.0672	µg/L	1
p-Isopropyltoluene		<0.0513	µg/L	1
4-Chlorotoluene		<0.0460	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.0629	µg/L	1
n-Butylbenzene		<0.0400	µg/L	1

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
1,2-Dibromo-3-chloropropane		<0.538	µg/L	5
1,2,3-Trichlorobenzene		<0.504	µg/L	5
1,2,4-Trichlorobenzene		<0.166	µg/L	5
Naphthalene		<0.417	µg/L	5
Hexachlorobutadiene		<0.176	µg/L	5
Isopropyl Alcohol		<5.00	µg/L	5
Tert-butyl Alcohol		<5.00	µg/L	5
1,4-Dioxane		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.4	µg/L	1	50.0	97	82.4 - 115
Toluene-d8		50.2	µg/L	1	50.0	100	89.7 - 108
4-Bromofluorobenzene (4-BFB)		48.4	µg/L	1	50.0	97	84.6 - 114

Method Blank (1) QC Batch: 32323

QC Batch:	32323	Date Analyzed:	2006-11-28	Analyzed By:	JG
Prep Batch:	28151	QC Preparation:	2006-11-28	Prepared By:	JG

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.825	µg/Kg	10
Isopropyl Alcohol		<85.5	µg/kg	200
Tert-butyl Alcohol		<88.1	µg/kg	200
Dichlorodifluoromethane		<0.889	µg/Kg	10
1,4-Dioxane		<176	µg/kg	500
Chloromethane (methyl chloride)		<0.929	µg/Kg	10
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		0.380	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		8.19	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

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
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		3.58	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
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		487	µg/Kg	1	500	97	42 - 129
Toluene-d8		514	µg/Kg	1	500	103	93 - 107

continued . . .

method blank continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		523	µg/Kg	1	500	105	78 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 32322 Date Analyzed: 2006-11-27 Analyzed By: JG
Prep Batch: 28150 QC Preparation: 2006-11-27 Prepared By: JG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	50.1	µg/L	1	50.0	<0.0736	100	83.4 - 114
Benzene	50.8	µg/L	1	50.0	<0.0495	102	83.5 - 115
Trichloroethene (TCE)	55.4	µg/L	1	50.0	<0.0495	111	91.3 - 111
Toluene	46.8	µg/L	1	50.0	<0.0736	94	82 - 110
Chlorobenzene	52.2	µg/L	1	50.0	<0.0217	104	87.9 - 109

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	48.2	µg/L	1	50.0	<0.0736	96	83.4 - 114	4	20
Benzene	49.9	µg/L	1	50.0	<0.0495	100	83.5 - 115	2	20
Trichloroethene (TCE)	53.8	µg/L	1	50.0	<0.0495	108	91.3 - 111	3	20
Toluene	46.2	µg/L	1	50.0	<0.0736	92	82 - 110	1	20
Chlorobenzene	51.2	µg/L	1	50.0	<0.0217	102	87.9 - 109	2	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	48.3	48.2	µg/L	1	50.0	97	96	82.4 - 115
Toluene-d8	49.1	49.2	µg/L	1	50.0	98	98	89.7 - 108
4-Bromofluorobenzene (4-BFB)	48.2	48.6	µg/L	1	50.0	96	97	84.6 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 32323 Date Analyzed: 2006-11-28 Analyzed By: JG
Prep Batch: 28151 QC Preparation: 2006-11-28 Prepared By: JG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	460	µg/Kg	1	500	<0.639	92	76.9 - 114
Benzene	478	µg/Kg	1	500	<0.644	96	79.7 - 113
Trichloroethene (TCE)	496	µg/Kg	1	500	<0.836	99	84.2 - 119
Toluene	421	µg/Kg	1	500	<1.12	84	82 - 110
Chlorobenzene	453	µg/Kg	1	500	<0.426	91	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	488	µg/Kg	1	500	<0.639	98	76.9 - 114	6	20
Benzene	488	µg/Kg	1	500	<0.644	98	79.7 - 113	2	20
Trichloroethene (TCE)	526	µg/Kg	1	500	<0.836	105	84.2 - 119	6	20
Toluene	441	µg/Kg	1	500	<1.12	88	82 - 110	5	20
Chlorobenzene	467	µg/Kg	1	500	<0.426	93	85.9 - 110	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	486	487	µg/Kg	1	500	97	97	87 - 108
Toluene-d8	464	469	µg/Kg	1	500	93	94	92.3 - 106
4-Bromofluorobenzene (4-BFB)	471	483	µg/Kg	1	500	94	97	83.4 - 117

Matrix Spike (MS-1) Spiked Sample: 109402

QC Batch: 32295 Date Analyzed: 2006-11-26 Analyzed By: JG
Prep Batch: 28123 QC Preparation: 2006-11-26 Prepared By: JG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	500	µg/Kg	1	500	<0.639	100	76.1 - 115
Benzene	510	µg/Kg	1	500	<0.644	102	82.1 - 110
Trichloroethene (TCE)	534	µg/Kg	1	500	<0.836	107	75.5 - 129
Toluene	452	µg/Kg	1	500	<1.12	90	82.3 - 108
Chlorobenzene	504	µg/Kg	1	500	<0.426	101	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	480	µg/Kg	1	500	<0.639	96	76.1 - 115	4	20
Benzene	501	µg/Kg	1	500	<0.644	100	82.1 - 110	2	20
Trichloroethene (TCE)	540	µg/Kg	1	500	<0.836	108	75.5 - 129	1	20
Toluene	455	µg/Kg	1	500	<1.12	91	82.3 - 108	1	20
Chlorobenzene	498	µg/Kg	1	500	<0.426	100	84.1 - 111	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	477	477	µg/Kg	1	500	95	95	87.9 - 105
Toluene-d8	477	479	µg/Kg	1	500	95	96	90.2 - 109
4-Bromofluorobenzene (4-BFB)	464	469	µg/Kg	1	500	93	94	82.9 - 116

Matrix Spike (MS-1) Spiked Sample: 109398

QC Batch: 32323 Date Analyzed: 2006-11-28 Analyzed By: JG
Prep Batch: 28151 QC Preparation: 2006-11-28 Prepared By: JG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	499	µg/Kg	1	500	<0.639	100	76.1 - 115
Benzene	509	µg/Kg	1	500	<0.644	102	82.1 - 110
Trichloroethene (TCE)	546	µg/Kg	1	500	<0.836	109	75.5 - 129
Toluene	466	µg/Kg	1	500	<1.12	93	82.3 - 108
Chlorobenzene	486	µg/Kg	1	500	<0.426	97	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	486	µg/Kg	1	500	<0.639	97	76.1 - 115	3	20
Benzene	500	µg/Kg	1	500	<0.644	100	82.1 - 110	2	20
Trichloroethene (TCE)	538	µg/Kg	1	500	<0.836	108	75.5 - 129	2	20
Toluene	454	µg/Kg	1	500	<1.12	91	82.3 - 108	3	20
Chlorobenzene	494	µg/Kg	1	500	<0.426	99	84.1 - 111	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
Dibromofluoromethane	489	487	µg/Kg	1	500	98	97	87.9 - 105
Toluene-d8	462	479	µg/Kg	1	500	92	96	90.2 - 109
4-Bromofluorobenzene (4-BFB)	468	489	µg/Kg	1	500	94	98	82.9 - 116

Standard (CCV-2)

QC Batch: 32295 Date Analyzed: 2006-11-26 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	51.7	103	80 - 120	2006-11-26
1,1-Dichloroethene		µg/Kg	50.0	50.0	100	80 - 120	2006-11-26
Chloroform		µg/Kg	50.0	50.3	101	80 - 120	2006-11-26
1,2-Dichloropropane		µg/Kg	50.0	52.1	104	80 - 120	2006-11-26
Toluene		µg/Kg	50.0	47.9	96	80 - 120	2006-11-26
Chlorobenzene		µg/Kg	50.0	52.4	105	80 - 120	2006-11-26
Ethylbenzene		µg/Kg	50.0	53.2	106	80 - 120	2006-11-26

Standard (CCV-1)

QC Batch: 32322 Date Analyzed: 2006-11-27 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	43.2	86	80 - 120	2006-11-27
1,1-Dichloroethene		µg/L	50.0	50.3	101	80 - 120	2006-11-27
Chloroform		µg/L	50.0	47.0	94	80 - 120	2006-11-27
1,2-Dichloropropane		µg/L	50.0	50.0	100	80 - 120	2006-11-27
Toluene		µg/L	50.0	46.8	94	80 - 120	2006-11-27
Chlorobenzene		µg/L	50.0	52.2	104	80 - 120	2006-11-27

continued . . .

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ethylbenzene		µg/L	50.0	50.6	101	80 - 120	2006-11-27

Standard (CCV-1)

QC Batch: 32323 Date Analyzed: 2006-11-28 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	49.0	98	80 - 120	2006-11-28
1,1-Dichloroethene		µg/Kg	50.0	49.3	99	80 - 120	2006-11-28
Chloroform		µg/Kg	50.0	48.3	97	80 - 120	2006-11-28
1,2-Dichloropropane		µg/Kg	50.0	50.8	102	80 - 120	2006-11-28
Toluene		µg/Kg	50.0	46.5	93	80 - 120	2006-11-28
Chlorobenzene		µg/Kg	50.0	50.9	102	80 - 120	2006-11-28
Ethylbenzene		µg/Kg	50.0	50.5	101	80 - 120	2006-11-28

Analytical and Quality Control Report

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

Report Date: January 4, 2007

Work Order: 6112109

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
109577	HLSF-0085-SB-013(10.0-11.0)	soil	2006-11-16	08:45	2006-11-17
109578	HLSF-0085-SB-013(20.0-21.0)	soil	2006-11-16	09:00	2006-11-17
109579	HLSF-0085-SB-013(30.0-31.0)	soil	2006-11-16	09:25	2006-11-17
109580	HLSF-0085-SB-013(40.0-41.0)	soil	2006-11-16	09:55	2006-11-17
109581	HLSF-0085-SB-013(49.0-50.0)	soil	2006-11-16	10:25	2006-11-17
109582	HLSF-0085-SB-011(10.0-11.0)	soil	2006-11-16	13:15	2006-11-17
109583	HLSF-0085-SB-011(20.0-21.0)	soil	2006-11-16	13:35	2006-11-17
109584	HLSF-0085-SB-011(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109585	HLSF-0085-SB-111(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109586	HLSF-0085-SB-011(40.0-42.0)	soil	2006-11-16	14:15	2006-11-17
109588	HLSF-0085-SB-011(49.0-50.0)	soil	2006-11-16	14:35	2006-11-17
109589	HLSF-0085-SB-016(10.0-11.0)	soil	2006-11-16	15:50	2006-11-17
109590	HLSF-0085-SB-016(20.0-21.0)	soil	2006-11-16	16:05	2006-11-17

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 7 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: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.951	mg/Kg	1	1.00	95	1.5 - 182
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	21.8 - 188

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2.70**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.919	mg/Kg	1	1.00	92	1.5 - 182
4-Bromofluorobenzene (4-BFB)		1.27	mg/Kg	1	1.00	127	21.8 - 188

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.985	mg/Kg	1	1.00	98	1.5 - 182
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	21.8 - 188

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**171**	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.809	mg/Kg	10	1.00	81	1.5 - 182
4-Bromofluorobenzene (4-BFB)	[1]	3.45	mg/Kg	10	1.00	345	21.8 - 188

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.847	mg/Kg	1	1.00	85	1.5 - 182
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	21.8 - 188

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.938	mg/Kg	1	1.00	94	1.5 - 182
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	21.8 - 188

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

[1] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**62.9**	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.730	mg/Kg	10	1.00	73	1.5 - 182
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	10	1.00	161	21.8 - 188

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**224**	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.725	mg/Kg	20	1.00	72	1.5 - 182
4-Bromofluorobenzene (4-BFB)	[2]	3.05	mg/Kg	20	1.00	305	21.8 - 188

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**257**	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.668	mg/Kg	20	1.00	67	1.5 - 182
4-Bromofluorobenzene (4-BFB)	[3]	2.27	mg/Kg	20	1.00	227	21.8 - 188

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**386**	mg/Kg	20	1.00

[2] High surrogate recovery due to peak interference.
[3] High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.784	mg/Kg	20	1.00	78	1.5 - 182
4-Bromofluorobenzene (4-BFB)	[4]	3.17	mg/Kg	20	1.00	317	21.8 - 188

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.885	mg/Kg	1	1.00	88	1.5 - 182
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	21.8 - 188

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.942	mg/Kg	1	1.00	94	1.5 - 182
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	21.8 - 188

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	32175	Date Analyzed:	2006-11-21	Analyzed By:	KB
Prep Batch:	28024	Sample Preparation:	2006-11-21	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**26.2**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.921	mg/Kg	1	1.00	92	1.5 - 182

continued . . .

[4]High surrogate recovery due to peak interference.

sample continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		1.29	mg/Kg	1	1.00	129	21.8 - 188

Method Blank (1) QC Batch: 32175

QC Batch: 32175 Date Analyzed: 2006-11-21 Analyzed By: KB
Prep Batch: 28024 QC Preparation: 2006-11-21 Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		2.33	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.972	mg/Kg	1	1.00	97	75.4 - 125
4-Bromofluorobenzene (4-BFB)		0.957	mg/Kg	1	1.00	96	60.8 - 113

Laboratory Control Spike (LCS-1)

QC Batch: 32175 Date Analyzed: 2006-11-21 Analyzed By: KB
Prep Batch: 28024 QC Preparation: 2006-11-21 Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.68	mg/Kg	1	10.0	<0.121	97	79.4 - 114

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
GRO	9.68	mg/Kg	1	10.0	<0.121	97	79.4 - 114	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
Trifluorotoluene (TFT)	0.938	0.944	mg/Kg	1	1.00	94	94	75.6 - 120
4-Bromofluorobenzene (4-BFB)	1.06	1.04	mg/Kg	1	1.00	106	104	77.4 - 117

Matrix Spike (MS-1) Spiked Sample: 109571

QC Batch: 32175 Date Analyzed: 2006-11-21 Analyzed By: KB
Prep Batch: 28024 QC Preparation: 2006-11-21 Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	11.3	mg/Kg	1	10.0	<0.121	113	36.4 - 166

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
GRO	11.7	mg/Kg	1	10.0	<0.121	117	36.4 - 166	4	19.6

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
Trifluorotoluene (TFT)	0.967	1.09	mg/Kg	1	1	97	109	39.2 - 148
4-Bromofluorobenzene (4-BFB)	1.26	1.30	mg/Kg	1	1	126	130	62.8 - 153

Standard (ICV-1)

QC Batch: 32175 Date Analyzed: 2006-11-21 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	85 - 115	2006-11-21

Standard (CCV-1)

QC Batch: 32175 Date Analyzed: 2006-11-21 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.973	97	85 - 115	2006-11-21

Analytical and Quality Control Report

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

Report Date: January 4, 2007

Work Order: 6112109

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
109577	HLSF-0085-SB-013(10.0-11.0)	soil	2006-11-16	08:45	2006-11-17
109578	HLSF-0085-SB-013(20.0-21.0)	soil	2006-11-16	09:00	2006-11-17
109579	HLSF-0085-SB-013(30.0-31.0)	soil	2006-11-16	09:25	2006-11-17
109580	HLSF-0085-SB-013(40.0-41.0)	soil	2006-11-16	09:55	2006-11-17
109581	HLSF-0085-SB-013(49.0-50.0)	soil	2006-11-16	10:25	2006-11-17
109582	HLSF-0085-SB-011(10.0-11.0)	soil	2006-11-16	13:15	2006-11-17
109583	HLSF-0085-SB-011(20.0-21.0)	soil	2006-11-16	13:35	2006-11-17
109584	HLSF-0085-SB-011(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109585	HLSF-0085-SB-111(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109586	HLSF-0085-SB-011(40.0-42.0)	soil	2006-11-16	14:15	2006-11-17
109588	HLSF-0085-SB-011(49.0-50.0)	soil	2006-11-16	14:35	2006-11-17
109589	HLSF-0085-SB-016(10.0-11.0)	soil	2006-11-16	15:50	2006-11-17
109590	HLSF-0085-SB-016(20.0-21.0)	soil	2006-11-16	16:05	2006-11-17

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.

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: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		182	mg/Kg	1	150	121	71 - 133.9

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**178**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		185	mg/Kg	1	150	123	71 - 133.9

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		182	mg/Kg	1	150	121	71 - 133.9

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**3180**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	205	mg/Kg	1	150	137	71 - 133.9

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**86.6**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		173	mg/Kg	1	150	115	71 - 133.9

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		173	mg/Kg	1	150	115	71 - 133.9

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**943**	mg/Kg	1	50.0

[1] High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		176	mg/Kg	1	150	117	71 - 133.9

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO	[2]	**5160**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		174	mg/Kg	1	150	116	71 - 133.9

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32237	Date Analyzed:	2006-11-27	Analyzed By:	SP
Prep Batch:	28069	Sample Preparation:	2006-11-22	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**4170**	mg/Kg	20	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		192	mg/Kg	20	150	128	71 - 133.9

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32237	Date Analyzed:	2006-11-27	Analyzed By:	SP
Prep Batch:	28069	Sample Preparation:	2006-11-22	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**10800**	mg/Kg	20	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[3]	206	mg/Kg	20	150	137	71 - 133.9

[2] Estimated concentration value greater than standard range.
[3] High surrogate recovery due to peak interference.

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32164	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**138**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		191	mg/Kg	1	150	127	71 - 133.9

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32164	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		185	mg/Kg	1	150	123	71 - 133.9

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	32164	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	Sample Preparation:	2006-11-21	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**166**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		176	mg/Kg	1	150	117	71 - 133.9

Method Blank (1) QC Batch: 32163

QC Batch:	32163	Date Analyzed:	2006-11-21	Analyzed By:	SP
Prep Batch:	28016	QC Preparation:	2006-11-21	Prepared By:	SP

Parameter	Flag	MDL Result	Units	RL
DRO		<7.28	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		170	mg/Kg	1	150	113	71 - 133.9

Method Blank (1) QC Batch: 32164

QC Batch: 32164 Date Analyzed: 2006-11-21 Analyzed By: SP
Prep Batch: 28016 QC Preparation: 2006-11-21 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<7.28	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		181	mg/Kg	1	150	121	71 - 133.9

Method Blank (1) QC Batch: 32237

QC Batch: 32237 Date Analyzed: 2006-11-27 Analyzed By: SP
Prep Batch: 28069 QC Preparation: 2006-11-22 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<7.28	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		179	mg/Kg	1	150	119	71 - 133.9

Laboratory Control Spike (LCS-1)

QC Batch: 32163 Date Analyzed: 2006-11-21 Analyzed By: SP
Prep Batch: 28016 QC Preparation: 2006-11-21 Prepared By: SP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	289	mg/Kg	1	250	<7.28	116	67.7 - 129

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	293	mg/Kg	1	250	<7.28	117	67.7 - 129	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	170	164	mg/Kg	1	150	113	109	71 - 133.9

Laboratory Control Spike (LCS-1)

QC Batch: 32164 | Date Analyzed: 2006-11-21 | Analyzed By: SP
Prep Batch: 28016 | QC Preparation: 2006-11-21 | Prepared By: SP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	319	mg/Kg	1	250	<7.28	128	67.7 - 129

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	302	mg/Kg	1	250	<7.28	121	67.7 - 129	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	194	177	mg/Kg	1	150	129	118	71 - 133.9

Laboratory Control Spike (LCS-1)

QC Batch: 32237 | Date Analyzed: 2006-11-27 | Analyzed By: SP
Prep Batch: 28069 | QC Preparation: 2006-11-22 | Prepared By: SP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	322	mg/Kg	1	250	<7.28	129	67.7 - 129

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [4]	331	mg/Kg	1	250	<7.28	132	67.7 - 129	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	170	184	mg/Kg	1	150	113	123	71 - 133.9

Matrix Spike (MS-1) Spiked Sample: 109577

QC Batch: 32163 | Date Analyzed: 2006-11-21 | Analyzed By: SP
Prep Batch: 28016 | QC Preparation: 2006-11-21 | Prepared By: SP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	278	mg/Kg	1	250	<7.28	111	38.4 - 150

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

[4]LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therfore, LCS shows extraction occured properly.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	293	mg/Kg	1	250	<7.28	117	38.4 - 150	5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	174	187	mg/Kg	1	150	116	125	71 - 133.9

Matrix Spike (MS-1) Spiked Sample: 109588

QC Batch: 32164 Date Analyzed: 2006-11-21 Analyzed By: SP
Prep Batch: 28016 QC Preparation: 2006-11-21 Prepared By: SP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	379	mg/Kg	1	250	138	96	38.4 - 150

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	376	mg/Kg	1	250	138	95	38.4 - 150	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
n-Triacontane	157	155	mg/Kg	1	150	105	103	71 - 133.9

Matrix Spike (MS-1) Spiked Sample: 109679

QC Batch: 32237 Date Analyzed: 2006-11-27 Analyzed By: SP
Prep Batch: 28069 QC Preparation: 2006-11-22 Prepared By: SP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	297	mg/Kg	1	250	<7.28	119	38.4 - 150

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	256	mg/Kg	1	250	<7.28	102	38.4 - 150	15	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	164	159	mg/Kg	1	150	109	106	71 - 133.9

Standard (ICV-1)

QC Batch: 32163 Date Analyzed: 2006-11-21 Analyzed By: SP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	221	88	85 - 115	2006-11-21

Standard (CCV-1)

QC Batch: 32163 Date Analyzed: 2006-11-21 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	287	115	85 - 115	2006-11-21

Standard (CCV-2)

QC Batch: 32163 Date Analyzed: 2006-11-21 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	281	112	85 - 115	2006-11-21

Standard (ICV-1)

QC Batch: 32164 Date Analyzed: 2006-11-21 Analyzed By: SP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	219	88	85 - 115	2006-11-21

Standard (CCV-1)

QC Batch: 32164 Date Analyzed: 2006-11-21 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	256	102	85 - 115	2006-11-21

Standard (CCV-1)

QC Batch: 32237 Date Analyzed: 2006-11-27 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	271	108	85 - 115	2006-11-27

Standard (CCV-2)

QC Batch: 32237 Date Analyzed: 2006-11-27 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	228	91	85 - 115	2006-11-27

Standard (CCV-3)

QC Batch: 32237 Date Analyzed: 2006-11-27 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	242	97	85 - 115	2006-11-27

Analytical and Quality Control Report

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

Report Date: January 4, 2007

Work Order: 6112109

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
109577	HLSF-0085-SB-013(10.0-11.0)	soil	2006-11-16	08:45	2006-11-17
109578	HLSF-0085-SB-013(20.0-21.0)	soil	2006-11-16	09:00	2006-11-17
109579	HLSF-0085-SB-013(30.0-31.0)	soil	2006-11-16	09:25	2006-11-17
109580	HLSF-0085-SB-013(40.0-41.0)	soil	2006-11-16	09:55	2006-11-17
109581	HLSF-0085-SB-013(49.0-50.0)	soil	2006-11-16	10:25	2006-11-17
109582	HLSF-0085-SB-011(10.0-11.0)	soil	2006-11-16	13:15	2006-11-17
109583	HLSF-0085-SB-011(20.0-21.0)	soil	2006-11-16	13:35	2006-11-17
109584	HLSF-0085-SB-011(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109585	HLSF-0085-SB-111(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109586	HLSF-0085-SB-011(40.0-42.0)	soil	2006-11-16	14:15	2006-11-17
109588	HLSF-0085-SB-011(49.0-50.0)	soil	2006-11-16	14:35	2006-11-17
109589	HLSF-0085-SB-016(10.0-11.0)	soil	2006-11-16	15:50	2006-11-17
109590	HLSF-0085-SB-016(20.0-21.0)	soil	2006-11-16	16:05	2006-11-17

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 36 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: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		**0.254**	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene		<0.250	mg/Kg	1	0.250
2-Methylnaphthalene		<0.250	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250

continued . . .

sample 109577 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		<0.250	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		<0.250	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250

continued . . .

sample 109577 continued . . .

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.27	mg/Kg	1	2.67	48	8.6 - 115
Phenol-d5		1.53	mg/Kg	1	2.67	57	6.3 - 124
Nitrobenzene-d5		1.66	mg/Kg	1	2.67	62	11.3 - 116
2-Fluorobiphenyl		1.54	mg/Kg	1	2.67	58	14.6 - 122
2,4,6-Tribromophenol		1.73	mg/Kg	1	2.67	65	13.8 - 123
Terphenyl-d14		1.95	mg/Kg	1	2.67	73	30.8 - 134

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		**0.410**	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250

continued . . .

sample 109578 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.250	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene		<0.250	mg/Kg	1	0.250
2-Methylnaphthalene		<0.250	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		<0.250	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		<0.250	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250

continued . . .

sample 109578 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.46	mg/Kg	1	2.67	55	8.6 - 115
Phenol-d5		1.71	mg/Kg	1	2.67	64	6.3 - 124
Nitrobenzene-d5		1.91	mg/Kg	1	2.67	72	11.3 - 116
2-Fluorobiphenyl		1.64	mg/Kg	1	2.67	61	14.6 - 122
2,4,6-Tribromophenol		2.22	mg/Kg	1	2.67	83	13.8 - 123
Terphenyl-d14		2.21	mg/Kg	1	2.67	83	30.8 - 134

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250

continued . . .

sample 109579 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		<0.250	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene		<0.250	mg/Kg	1	0.250
2-Methylnaphthalene		<0.250	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		<0.250	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250

continued . . .

sample 109579 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		<0.250	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.16	mg/Kg	1	2.67	43	8.6 - 115
Phenol-d5		1.31	mg/Kg	1	2.67	49	6.3 - 124
Nitrobenzene-d5		1.55	mg/Kg	1	2.67	58	11.3 - 116
2-Fluorobiphenyl		1.32	mg/Kg	1	2.67	49	14.6 - 122
2,4,6-Tribromophenol		1.65	mg/Kg	1	2.67	62	13.8 - 123
Terphenyl-d14		1.70	mg/Kg	1	2.67	64	30.8 - 134

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		**1.61**	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene	[1]	**8.77**	mg/Kg	1	0.250
2-Methylnaphthalene	[2]	**11.1**	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250

continued . . .

[1] Estimated concentration value greater than standard range.
[2] Estimated concentration value greater than standard range.

sample 109580 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		**0.994**	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		**1.03**	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		**2.00**	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.68	mg/Kg	1	2.67	63	8.6 - 115

continued . . .

sample continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Phenol-d5		1.99	mg/Kg	1	2.67	74	6.3 - 124
Nitrobenzene-d5		2.01	mg/Kg	1	2.67	75	11.3 - 116
2-Fluorobiphenyl		1.63	mg/Kg	1	2.67	61	14.6 - 122
2,4,6-Tribromophenol		1.97	mg/Kg	1	2.67	74	13.8 - 123
Terphenyl-d14		1.97	mg/Kg	1	2.67	74	30.8 - 134

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		<0.250	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250

continued . . .

sample 109581 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
1-Methylnaphthalene		<0.250	mg/Kg	1	0.250
2-Methylnaphthalene		**0.263**	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		<0.250	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		<0.250	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250

continued . . .

sample 109581 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.29	mg/Kg	1	2.67	48	8.6 - 115
Phenol-d5		1.74	mg/Kg	1	2.67	65	6.3 - 124
Nitrobenzene-d5		2.22	mg/Kg	1	2.67	83	11.3 - 116
2-Fluorobiphenyl		1.74	mg/Kg	1	2.67	65	14.6 - 122
2,4,6-Tribromophenol		1.21	mg/Kg	1	2.67	45	13.8 - 123
Terphenyl-d14		2.03	mg/Kg	1	2.67	76	30.8 - 134

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250

continued . . .

sample 109582 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		<0.250	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene		<0.250	mg/Kg	1	0.250
2-Methylnaphthalene		<0.250	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		<0.250	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250

continued . . .

sample 109582 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		<0.250	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.09	mg/Kg	1	2.67	41	8.6 - 115
Phenol-d5		1.27	mg/Kg	1	2.67	48	6.3 - 124
Nitrobenzene-d5		1.44	mg/Kg	1	2.67	54	11.3 - 116
2-Fluorobiphenyl		1.27	mg/Kg	1	2.67	48	14.6 - 122
2,4,6-Tribromophenol		1.62	mg/Kg	1	2.67	61	13.8 - 123
Terphenyl-d14		1.71	mg/Kg	1	2.67	64	30.8 - 134

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250

continued . . .

sample 109583 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		**1.02**	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene	[3]	**5.53**	mg/Kg	1	0.250
2-Methylnaphthalene	[4]	**7.64**	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		**0.738**	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250

continued . . .

[3] Estimated concentration value greater than standard range.
[4] Estimated concentration value greater than standard range.

sample 109583 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		**0.590**	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		**1.51**	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.24	mg/Kg	1	2.67	46	8.6 - 115
Phenol-d5		1.77	mg/Kg	1	2.67	66	6.3 - 124
Nitrobenzene-d5		1.92	mg/Kg	1	2.67	72	11.3 - 116
2-Fluorobiphenyl		1.70	mg/Kg	1	2.67	64	14.6 - 122

continued . . .

sample continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,6-Tribromophenol		1.51	mg/Kg	1	2.67	56	13.8 - 123
Terphenyl-d14		2.23	mg/Kg	1	2.67	84	30.8 - 134

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		**0.689**	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene	[5]	**13.2**	mg/Kg	1	0.250

continued . . .

[5] Estimated concentration value greater than standard range.

sample 109584 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
2-Methylnaphthalene	[6]	**12.1**	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		**0.906**	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		**1.73**	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		**3.47**	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		**0.468**	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250

continued . . .

[6]Estimated concentration value greater than standard range.

sample 109584 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.46	mg/Kg	1	2.67	55	8.6 - 115
Phenol-d5		1.86	mg/Kg	1	2.67	70	6.3 - 124
Nitrobenzene-d5		2.15	mg/Kg	1	2.67	80	11.3 - 116
2-Fluorobiphenyl		1.55	mg/Kg	1	2.67	58	14.6 - 122
2,4,6-Tribromophenol		2.03	mg/Kg	1	2.67	76	13.8 - 123
Terphenyl-d14		2.25	mg/Kg	1	2.67	84	30.8 - 134

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250

continued . . .

sample 109585 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		**0.631**	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene		**12.1**	mg/Kg	1	0.250
2-Methylnaphthalene		**10.9**	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		**1.27**	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		**1.40**	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250

continued . . .

sample 109585 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		**3.04**	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.05	mg/Kg	1	2.67	39	8.6 - 115
Phenol-d5		1.55	mg/Kg	1	2.67	58	6.3 - 124
Nitrobenzene-d5		2.06	mg/Kg	1	2.67	77	11.3 - 116
2-Fluorobiphenyl		1.32	mg/Kg	1	2.67	49	14.6 - 122
2,4,6-Tribromophenol		1.00	mg/Kg	1	2.67	37	13.8 - 123
Terphenyl-d14		1.93	mg/Kg	1	2.67	72	30.8 - 134

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250

continued . . .

sample 109586 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene	[7]	**12.9**	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene	[8]	**55.8**	mg/Kg	1	0.250
2-Methylnaphthalene	[9]	**71.3**	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		**3.10**	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250

continued . . .

[7] Estimated concentration value greater than standard range.
[8] Estimated concentration value greater than standard range.
[9] Estimated concentration value greater than standard range.

sample 109586 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene	[10]	**6.38**	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene	[11]	**10.6**	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		**1.42**	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.38	mg/Kg	1	2.67	52	8.6 - 115

continued . . .

[10] Estimated concentration value greater than standard range.
[11] Estimated concentration value greater than standard range.

sample continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Phenol-d5		2.01	mg/Kg	1	2.67	75	6.3 - 124
Nitrobenzene-d5	[12]	3.15	mg/Kg	1	2.67	118	11.3 - 116
2-Fluorobiphenyl		1.72	mg/Kg	1	2.67	64	14.6 - 122
2,4,6-Tribromophenol		2.20	mg/Kg	1	2.67	82	13.8 - 123
Terphenyl-d14		2.65	mg/Kg	1	2.67	99	30.8 - 134

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		<0.250	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250

[12] High surrogate recovery due to peak interference.

continued . . .

sample 109588 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
1-Methylnaphthalene		<0.250	mg/Kg	1	0.250
2-Methylnaphthalene		**0.303**	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		<0.250	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		<0.250	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250

continued . . .

sample 109588 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.31	mg/Kg	1	2.67	49	8.6 - 115
Phenol-d5		1.56	mg/Kg	1	2.67	58	6.3 - 124
Nitrobenzene-d5		1.91	mg/Kg	1	2.67	72	11.3 - 116
2-Fluorobiphenyl		1.61	mg/Kg	1	2.67	60	14.6 - 122
2,4,6-Tribromophenol		1.59	mg/Kg	1	2.67	60	13.8 - 123
Terphenyl-d14		1.86	mg/Kg	1	2.67	70	30.8 - 134

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250

continued . . .

sample 109589 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		<0.250	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene		<0.250	mg/Kg	1	0.250
2-Methylnaphthalene		<0.250	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		<0.250	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250

continued . . .

sample 109589 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		<0.250	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.500	mg/Kg	1	2.67	19	8.6 - 115
Phenol-d5		1.09	mg/Kg	1	2.67	41	6.3 - 124
Nitrobenzene-d5		1.92	mg/Kg	1	2.67	72	11.3 - 116
2-Fluorobiphenyl		1.71	mg/Kg	1	2.67	64	14.6 - 122
2,4,6-Tribromophenol		0.700	mg/Kg	1	2.67	26	13.8 - 123
Terphenyl-d14		1.93	mg/Kg	1	2.67	72	30.8 - 134

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3550
QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	Sample Preparation:	2006-11-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.250	mg/Kg	1	0.250
n-Nitrosodimethylamine		<0.250	mg/Kg	1	0.250
2-Picoline		<0.250	mg/Kg	1	0.250
Methyl methanesulfonate		<0.250	mg/Kg	1	0.250
Ethyl methanesulfonate		<0.250	mg/Kg	1	0.250

continued . . .

sample 109590 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Phenol		<0.250	mg/Kg	1	0.250
Aniline		<0.250	mg/Kg	1	0.250
bis(2-chloroethyl)ether		<0.250	mg/Kg	1	0.250
2-Chlorophenol		<0.250	mg/Kg	1	0.250
1,3-Dichlorobenzene (meta)		<0.250	mg/Kg	1	0.250
1,4-Dichlorobenzene (para)		<0.250	mg/Kg	1	0.250
Benzyl alcohol		<0.250	mg/Kg	1	0.250
1,2-Dichlorobenzene (ortho)		<0.250	mg/Kg	1	0.250
2-Methylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroisopropyl)ether		<0.250	mg/Kg	1	0.250
4-Methylphenol / 3-Methylphenol		<0.250	mg/Kg	1	0.250
Acetophenone		<0.250	mg/Kg	1	0.250
n-Nitrosodi-n-propylamine		<0.250	mg/Kg	1	0.250
Hexachloroethane		<0.250	mg/Kg	1	0.250
Nitrobenzene		<0.250	mg/Kg	1	0.250
n-Nitrosopiperidine		<0.250	mg/Kg	1	0.250
Isophorone		<0.250	mg/Kg	1	0.250
2-Nitrophenol		<0.250	mg/Kg	1	0.250
2,4-Dimethylphenol		<0.250	mg/Kg	1	0.250
bis(2-chloroethoxy)methane		<0.250	mg/Kg	1	0.250
Benzoic acid		<0.250	mg/Kg	1	0.250
2,4-Dichlorophenol		<0.250	mg/Kg	1	0.250
1,2,4-Trichlorobenzene		<0.250	mg/Kg	1	0.250
a,a-Dimethylphenethylamine		<0.250	mg/Kg	1	0.250
Naphthalene		**0.299**	mg/Kg	1	0.250
4-Chloroaniline		<0.250	mg/Kg	1	0.250
2,6-Dichlorophenol		<0.250	mg/Kg	1	0.250
Hexachlorobutadiene		<0.250	mg/Kg	1	0.250
n-Nitroso-di-n-butylamine		<0.250	mg/Kg	1	0.250
4-Chloro-3-methylphenol		<0.250	mg/Kg	1	0.250
1-Methylnaphthalene		**1.91**	mg/Kg	1	0.250
2-Methylnaphthalene		<0.250	mg/Kg	1	0.250
1,2,4,5-Tetrachlorobenzene		<0.250	mg/Kg	1	0.250
Hexachlorocyclopentadiene		<0.250	mg/Kg	1	0.250
2,4,6-Trichlorophenol		<0.250	mg/Kg	1	0.250
2,4,5-Trichlorophenol		<0.250	mg/Kg	1	0.250
2-Chloronaphthalene		<0.250	mg/Kg	1	0.250
1-Chloronaphthalene		<0.250	mg/Kg	1	0.250
2-Nitroaniline		<0.250	mg/Kg	1	0.250
Dimethylphthalate		<0.250	mg/Kg	1	0.250
Acenaphthylene		<0.250	mg/Kg	1	0.250
2,6-Dinitrotoluene		<0.250	mg/Kg	1	0.250
3-Nitroaniline		<0.250	mg/Kg	1	0.250
Acenaphthene		<0.250	mg/Kg	1	0.250
2,4-Dinitrophenol		<0.250	mg/Kg	1	0.250
Dibenzofuran		<0.250	mg/Kg	1	0.250
Pentachlorobenzene		<0.250	mg/Kg	1	0.250
4-Nitrophenol		<0.250	mg/Kg	1	0.250
1-Naphthylamine		<0.250	mg/Kg	1	0.250

continued . . .

sample 109590 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
2,4-Dinitrotoluene		<0.250	mg/Kg	1	0.250
2-Naphthylamine		<0.250	mg/Kg	1	0.250
2,3,4,6-Tetrachlorophenol		<0.250	mg/Kg	1	0.250
Fluorene		<0.250	mg/Kg	1	0.250
Diethylphthalate		<0.250	mg/Kg	1	0.250
4-Chlorophenyl-phenylether		<0.250	mg/Kg	1	0.250
4-Nitroaniline		<0.250	mg/Kg	1	0.250
4,6-Dinitro-2-methylphenol		<0.250	mg/Kg	1	0.250
Diphenylamine		<0.250	mg/Kg	1	0.250
Diphenylhydrazine		<0.250	mg/Kg	1	0.250
4-Bromophenyl-phenylether		<0.250	mg/Kg	1	0.250
Phenacetin		<0.250	mg/Kg	1	0.250
Hexachlorobenzene		<0.250	mg/Kg	1	0.250
4-Aminobiphenyl		<0.250	mg/Kg	1	0.250
Pentachlorophenol		<0.250	mg/Kg	1	0.250
Pentachloronitrobenzene		<0.250	mg/Kg	1	0.250
Pronamide		<0.250	mg/Kg	1	0.250
Phenanthrene		<0.250	mg/Kg	1	0.250
Anthracene		**0.543**	mg/Kg	1	0.250
Di-n-butylphthalate		<0.250	mg/Kg	1	0.250
Fluoranthene		<0.250	mg/Kg	1	0.250
Benzidine		<0.250	mg/Kg	1	0.250
Pyrene		<0.250	mg/Kg	1	0.250
p-Dimethylaminoazobenzene		<0.250	mg/Kg	1	0.250
Butylbenzylphthalate		<0.250	mg/Kg	1	0.250
Benzo(a)anthracene		<0.250	mg/Kg	1	0.250
3,3-Dichlorobenzidine		<0.250	mg/Kg	1	0.250
Chrysene		<0.250	mg/Kg	1	0.250
bis(2-ethylhexyl)phthalate		<0.250	mg/Kg	1	0.250
Di-n-octylphthalate		<0.250	mg/Kg	1	0.250
Benzo(b)fluoranthene		<0.250	mg/Kg	1	0.250
7,12-Dimethylbenz(a)anthracene		<0.250	mg/Kg	1	0.250
Benzo(k)fluoranthene		<0.250	mg/Kg	1	0.250
Benzo(a)pyrene		<0.250	mg/Kg	1	0.250
3-Methylcholanthrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,j)acridine		<0.250	mg/Kg	1	0.250
Indeno(1,2,3-cd)pyrene		<0.250	mg/Kg	1	0.250
Dibenzo(a,h)anthracene		<0.250	mg/Kg	1	0.250
Benzo(g,h,i)perylene		<0.250	mg/Kg	1	0.250
2-Butoxy Ethanol		<0.250	mg/Kg	1	0.250

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.60	mg/Kg	1	2.67	60	8.6 - 115
Phenol-d5		1.79	mg/Kg	1	2.67	67	6.3 - 124
Nitrobenzene-d5		2.01	mg/Kg	1	2.67	75	11.3 - 116
2-Fluorobiphenyl		1.62	mg/Kg	1	2.67	61	14.6 - 122
2,4,6-Tribromophenol		1.96	mg/Kg	1	2.67	73	13.8 - 123
Terphenyl-d14		2.18	mg/Kg	1	2.67	82	30.8 - 134

Method Blank (1) QC Batch: 33164

QC Batch:	33164	Date Analyzed:	2006-12-15	Analyzed By:	DS
Prep Batch:	28829	QC Preparation:	2006-11-28	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		1.43	mg/Kg	1	2.67	54	8.6 - 115
Phenol-d5		1.68	mg/Kg	1	2.67	63	6.3 - 124
Nitrobenzene-d5		1.90	mg/Kg	1	2.67	71	11.3 - 116
2-Fluorobiphenyl		1.80	mg/Kg	1	2.67	67	14.6 - 122
2,4,6-Tribromophenol		2.07	mg/Kg	1	2.67	78	13.8 - 123
Terphenyl-d14		2.37	mg/Kg	1	2.67	89	30.8 - 134

Laboratory Control Spike (LCS-1)

QC Batch: 33164 Date Analyzed: 2006-12-15 Analyzed By: DS
Prep Batch: 28829 QC Preparation: 2006-11-28 Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	1.80	mg/Kg	1	2.67	<0.0602	67	10 - 125.6
2-Chlorophenol	1.67	mg/Kg	1	2.67	<0.0923	62	10 - 144
1,4-Dichlorobenzene (para)	1.72	mg/Kg	1	2.67	<0.0303	64	10 - 172
n-Nitrosodi-n-propylamine	2.10	mg/Kg	1	2.67	<0.0480	79	10 - 203
1,2,4-Trichlorobenzene	2.04	mg/Kg	1	2.67	<0.0297	76	10 - 176
4-Chloro-3-methylphenol	1.69	mg/Kg	1	2.67	<0.0474	63	10 - 168
Acenaphthene	1.91	mg/Kg	1	2.67	<0.0745	72	10 - 215
4-Nitrophenol	1.75	mg/Kg	1	2.67	<0.169	66	10 - 160
2,4-Dinitrotoluene	1.90	mg/Kg	1	2.67	<0.0609	71	10 - 226
Pentachlorophenol	1.36	mg/Kg	1	2.67	<0.151	51	10 - 187
Pyrene	2.29	mg/Kg	1	2.67	<0.151	86	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	1.88	mg/Kg	1	2.67	<0.0602	70	10 - 125.6	4	20
2-Chlorophenol	1.77	mg/Kg	1	2.67	<0.0923	66	10 - 144	6	20
1,4-Dichlorobenzene (para)	1.83	mg/Kg	1	2.67	<0.0303	68	10 - 172	6	20
n-Nitrosodi-n-propylamine	2.21	mg/Kg	1	2.67	<0.0480	83	10 - 203	5	20
1,2,4-Trichlorobenzene	2.15	mg/Kg	1	2.67	<0.0297	80	10 - 176	5	20
4-Chloro-3-methylphenol	1.83	mg/Kg	1	2.67	<0.0474	68	10 - 168	8	20
Acenaphthene	2.03	mg/Kg	1	2.67	<0.0745	76	10 - 215	6	20
4-Nitrophenol	1.93	mg/Kg	1	2.67	<0.169	72	10 - 160	10	20
2,4-Dinitrotoluene	2.02	mg/Kg	1	2.67	<0.0609	76	10 - 226	6	20
Pentachlorophenol	1.52	mg/Kg	1	2.67	<0.151	57	10 - 187	11	20
Pyrene	2.45	mg/Kg	1	2.67	<0.151	92	10 - 248	7	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	1.43	1.50	mg/Kg	1	2.67	54	56	10 - 130.2
Phenol-d5	1.98	2.07	mg/Kg	1	2.67	74	78	10 - 133.4
Nitrobenzene-d5	2.32	2.48	mg/Kg	1	2.67	87	93	21 - 130.5
2-Fluorobiphenyl	2.12	2.21	mg/Kg	1	2.67	79	83	22 - 129.2
2,4,6-Tribromophenol	2.02	2.17	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	2.56	2.74	mg/Kg	1	2.67	96	103	44.1 - 161

Matrix Spike (MS-1) Spiked Sample: 109584

QC Batch: 33164 Date Analyzed: 2006-12-15 Analyzed By: DS
Prep Batch: 28829 QC Preparation: 2006-11-28 Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	1.67	mg/Kg	1	2.67	<0.0602	62	10 - 109
2-Chlorophenol	1.54	mg/Kg	1	2.67	<0.0923	58	10 - 130
1,4-Dichlorobenzene (para)	1.50	mg/Kg	1	2.67	<0.0303	56	10 - 124
n-Nitrosodi-n-propylamine	2.67	mg/Kg	1	2.67	<0.0480	100	10 - 172
1,2,4-Trichlorobenzene	1.74	mg/Kg	1	2.67	<0.0297	65	10 - 136
4-Chloro-3-methylphenol	1.63	mg/Kg	1	2.67	<0.0474	61	10 - 121
Acenaphthene	2.31	mg/Kg	1	2.67	<0.0745	86	10 - 158
4-Nitrophenol	0.421	mg/Kg	1	2.67	<0.169	16	10 - 84
2,4-Dinitrotoluene	2.91	mg/Kg	1	2.67	<0.0609	109	10 - 126
Pentachlorophenol	0.950	mg/Kg	1	2.67	<0.151	36	10 - 143
Pyrene	2.41	mg/Kg	1	2.67	<0.151	90	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	1.77	mg/Kg	1	2.67	<0.0602	66	10 - 109	6	20
2-Chlorophenol	1.63	mg/Kg	1	2.67	<0.0923	61	10 - 130	6	20
1,4-Dichlorobenzene (para)	1.57	mg/Kg	1	2.67	<0.0303	59	10 - 124	5	20
n-Nitrosodi-n-propylamine	2.61	mg/Kg	1	2.67	<0.0480	98	10 - 172	2	20
1,2,4-Trichlorobenzene	1.76	mg/Kg	1	2.67	<0.0297	66	10 - 136	1	20
4-Chloro-3-methylphenol	1.66	mg/Kg	1	2.67	<0.0474	62	10 - 121	2	20
Acenaphthene	2.47	mg/Kg	1	2.67	<0.0745	92	10 - 158	7	20
4-Nitrophenol	0.340	mg/Kg	1	2.67	<0.169	13	10 - 84	21	20
2,4-Dinitrotoluene	3.05	mg/Kg	1	2.67	<0.0609	114	10 - 126	5	20
Pentachlorophenol	1.04	mg/Kg	1	2.67	<0.151	39	10 - 143	9	20
Pyrene	2.51	mg/Kg	1	2.67	<0.151	94	10 - 174	4	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	1.32	1.32	mg/Kg	1	2.67	49	49	10 - 98.6
Phenol-d5	1.81	1.90	mg/Kg	1	2.67	68	71	10 - 103
Nitrobenzene-d5	2.20	2.30	mg/Kg	1	2.67	82	86	24 - 93.4
2-Fluorobiphenyl	1.52	1.62	mg/Kg	1	2.67	57	61	13.1 - 102
2,4,6-Tribromophenol	1.56	1.62	mg/Kg	1	2.67	58	61	21.5 - 112
Terphenyl-d14	2.05	2.16	mg/Kg	1	2.67	77	81	24.3 - 121

Standard (CCV-2)

QC Batch: 33164 Date Analyzed: 2006-12-15 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	63.1	105	80 - 120	2006-12-15
1,4-Dichlorobenzene (para)		mg/Kg	60.0	60.7	101	80 - 120	2006-12-15
2-Nitrophenol		mg/Kg	60.0	64.2	107	80 - 120	2006-12-15
2,4-Dichlorophenol		mg/Kg	60.0	65.6	109	80 - 120	2006-12-15
Hexachlorobutadiene		mg/Kg	60.0	62.5	104	80 - 120	2006-12-15
4-Chloro-3-methylphenol		mg/Kg	60.0	61.5	102	80 - 120	2006-12-15
2,4,6-Trichlorophenol		mg/Kg	60.0	64.9	108	80 - 120	2006-12-15
Acenaphthene		mg/Kg	60.0	60.6	101	80 - 120	2006-12-15
Diphenylamine		mg/Kg	60.0	60.0	100	80 - 120	2006-12-15
Pentachlorophenol		mg/Kg	60.0	66.4	111	80 - 120	2006-12-15
Fluoranthene		mg/Kg	60.0	63.6	106	80 - 120	2006-12-15
Di-n-octylphthalate		mg/Kg	60.0	62.5	104	80 - 120	2006-12-15
Benzo(a)pyrene		mg/Kg	60.0	65.3	109	80 - 120	2006-12-15

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		62.2	mg/Kg	1	60.0	104	80 - 120
Phenol-d5		62.9	mg/Kg	1	60.0	105	80 - 120
Nitrobenzene-d5		70.7	mg/Kg	1	60.0	118	80 - 120
2-Fluorobiphenyl		58.1	mg/Kg	1	60.0	97	80 - 120
2,4,6-Tribromophenol	[13]	72.7	mg/Kg	1	60.0	121	80 - 120
Terphenyl-d14		65.8	mg/Kg	1	60.0	110	80 - 120

[13] 2,4,6-Tribromophenol outside of control limits on CCV(ICV). CCV(ICV) component average is 106% 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: January 4, 2007

Work Order: 6112109

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
109577	HLSF-0085-SB-013(10.0-11.0)	soil	2006-11-16	08:45	2006-11-17
109578	HLSF-0085-SB-013(20.0-21.0)	soil	2006-11-16	09:00	2006-11-17
109579	HLSF-0085-SB-013(30.0-31.0)	soil	2006-11-16	09:25	2006-11-17
109580	HLSF-0085-SB-013(40.0-41.0)	soil	2006-11-16	09:55	2006-11-17
109581	HLSF-0085-SB-013(49.0-50.0)	soil	2006-11-16	10:25	2006-11-17
109582	HLSF-0085-SB-011(10.0-11.0)	soil	2006-11-16	13:15	2006-11-17
109583	HLSF-0085-SB-011(20.0-21.0)	soil	2006-11-16	13:35	2006-11-17
109584	HLSF-0085-SB-011(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109585	HLSF-0085-SB-111(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109586	HLSF-0085-SB-011(40.0-42.0)	soil	2006-11-16	14:15	2006-11-17
109588	HLSF-0085-SB-011(49.0-50.0)	soil	2006-11-16	14:35	2006-11-17
109589	HLSF-0085-SB-016(10.0-11.0)	soil	2006-11-16	15:50	2006-11-17
109590	HLSF-0085-SB-016(20.0-21.0)	soil	2006-11-16	16:05	2006-11-17

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.

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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: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**2.82**	mg/Kg	1	0.500

Sample: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**650**	mg/Kg	1	50.0

Sample: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**61.1**	mg/Kg	1	2.00

Sample: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**3.99**	mg/Kg	1	1.00

Sample: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**5.08**	mg/Kg	1	2.00

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**5.39**	mg/Kg	1	0.500

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**378**	mg/Kg	1	50.0

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**105**	mg/Kg	1	2.00

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**13.9**	mg/Kg	1	1.00

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**16.4**	mg/Kg	1	2.00

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**2.30**	mg/Kg	1	0.500

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**470**	mg/Kg	1	50.0

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**119**	mg/Kg	1	2.00

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**6.55**	mg/Kg	1	1.00

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**9.71**	mg/Kg	1	2.00

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		<0.500	mg/Kg	1	0.500

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**384**	mg/Kg	1	50.0

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**80.8**	mg/Kg	1	2.00

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**4.74**	mg/Kg	1	1.00

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**6.17**	mg/Kg	1	2.00

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		<0.500	mg/Kg	1	0.500

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**290**	mg/Kg	1	50.0

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**56.8**	mg/Kg	1	2.00

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**4.08**	mg/Kg	1	1.00

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**5.15**	mg/Kg	1	2.00

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		<0.500	mg/Kg	1	0.500

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**560**	mg/Kg	1	50.0

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**45.3**	mg/Kg	1	2.00

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**2.87**	mg/Kg	1	1.00

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**3.61**	mg/Kg	1	2.00

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**5.41**	mg/Kg	1	0.500

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**880**	mg/Kg	1	50.0

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**97.6**	mg/Kg	1	2.00

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**10.7**	mg/Kg	1	1.00

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**12.3**	mg/Kg	1	2.00

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**3.02**	mg/Kg	1	0.500

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**930**	mg/Kg	1	50.0

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**125**	mg/Kg	1	2.00

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**8.42**	mg/Kg	1	1.00

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

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

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**3.18**	mg/Kg	1	0.500

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**1170**	mg/Kg	1	50.0

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**114**	mg/Kg	1	2.00

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**10.2**	mg/Kg	1	1.00

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**13.1**	mg/Kg	1	2.00

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**2.48**	mg/Kg	1	0.500

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**600**	mg/Kg	1	50.0

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**113**	mg/Kg	1	2.00

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**7.84**	mg/Kg	1	1.00

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**9.45**	mg/Kg	1	2.00

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**3.34**	mg/Kg	1	0.500

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**560**	mg/Kg	1	50.0

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**143**	mg/Kg	1	2.00

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**11.2**	mg/Kg	1	1.00

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**13.7**	mg/Kg	1	2.00

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**2.97**	mg/Kg	1	0.500

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**645**	mg/Kg	1	50.0

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**65.2**	mg/Kg	1	2.00

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**4.36**	mg/Kg	1	1.00

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc	*B*	**5.11**	mg/Kg	1	2.00

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	Cr, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		**8.08**	mg/Kg	1	0.500

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32477	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**1360**	mg/Kg	1	50.0

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	P, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Phosphorous		**140**	mg/Kg	1	2.00

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		**17.5**	mg/Kg	1	1.00

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	Sample Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		**24.4**	mg/Kg	1	2.00

Method Blank (1) QC Batch: 32475

QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	QC Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	MDL Result	Units	RL
Total Chromium		<0.0125	mg/Kg	0.5

Method Blank (1) QC Batch: 32475

QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	QC Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	MDL Result	Units	RL
Total Phosphorous		2.78	mg/Kg	2

Method Blank (1) QC Batch: 32475

QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	QC Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	MDL Result	Units	RL
Total Lead		<0.367	mg/Kg	1

Method Blank (1) QC Batch: 32475

QC Batch:	32475	Date Analyzed:	2006-12-04	Analyzed By:	RR
Prep Batch:	28241	QC Preparation:	2006-12-01	Prepared By:	TS

Parameter	Flag	MDL Result	Units	RL
Total Zinc		1.47	mg/Kg	2

Method Blank (1) QC Batch: 32477

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Chromium		<0.0125	mg/Kg	0.5

Method Blank (1) QC Batch: 32477

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Sodium		<3.88	mg/Kg	50

Method Blank (1) QC Batch: 32477

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Phosphorous		2.78	mg/Kg	2

Method Blank (1) QC Batch: 32477

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Lead		<0.367	mg/Kg	1

Method Blank (1) QC Batch: 32477

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Zinc		2.78	mg/Kg	2

Laboratory Control Spike (LCS-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Chromium	10.1	mg/Kg	1	10.0	<0.0125	101	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Chromium	10.2	mg/Kg	1	10.0	<0.0125	102	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: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous	47.0	mg/Kg	1	50.0	2.78	88	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous	46.2	mg/Kg	1	50.0	2.78	87	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Lead	46.0	mg/Kg	1	50.0	<0.367	92	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	47.8	mg/Kg	1	50.0	<0.367	96	85 - 115	4	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: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	26.6	mg/Kg	1	25.0	<0.124	106	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc	27.0	mg/Kg	1	25.0	<0.124	108	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Chromium	10.1	mg/Kg	1	10.0	<0.0125	101	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Chromium	10.2	mg/Kg	1	10.0	<0.0125	102	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: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	48.0	mg/Kg	1	50.0	<3.88	96	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Sodium	52.2	mg/Kg	1	50.0	<3.88	104	85 - 115	8	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous	47.0	mg/Kg	1	50.0	2.78	88	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous	46.2	mg/Kg	1	50.0	2.78	87	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Lead	46.0	mg/Kg	1	50.0	<0.367	92	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	47.8	mg/Kg	1	50.0	<0.367	96	85 - 115	4	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: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	26.6	mg/Kg	1	25.0	2.78	95	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc	27.0	mg/Kg	1	25.0	2.78	97	85 - 115	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: 109588

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Chromium	13.9	mg/Kg	1	10.0	3.34	106	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Chromium	13.6	mg/Kg	1	10.0	3.34	103	75 - 125	2	20

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

Matrix Spike (MS-1) Spiked Sample: 109588

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous	181	mg/Kg	1	50.0	143	76	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous	193	mg/Kg	1	50.0	143	100	75 - 125	6	20

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

Matrix Spike (MS-1) Spiked Sample: 109588

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Lead	53.8	mg/Kg	1	50.0	11.2	85	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	52.6	mg/Kg	1	50.0	11.2	83	75 - 125	2	20

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

Matrix Spike (MS-1) Spiked Sample: 109588

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	36.4	mg/Kg	1	25.0	13.7	91	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc	35.6	mg/Kg	1	25.0	13.7	88	75 - 125	2	20

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

Matrix Spike (MS-1) Spiked Sample: 109577

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Chromium	11.3	mg/Kg	1	10.0	2.82	85	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Chromium	12.3	mg/Kg	1	10.0	2.82	95	75 - 125	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: 109577

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	705	mg/Kg	1	50.0	650	110	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Sodium	710	mg/Kg	1	50.0	650	120	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 109577

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous	113	mg/Kg	1	50.0	61.1	104	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous	117	mg/Kg	1	50.0	61.1	112	75 - 125	4	20

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

Matrix Spike (MS-1) Spiked Sample: 109577

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Lead	44.1	mg/Kg	1	50.0	3.99	80	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	46.3	mg/Kg	1	50.0	3.99	85	75 - 125	5	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: 109577

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	27.5	mg/Kg	1	25.0	5.08	90	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc	27.1	mg/Kg	1	25.0	5.08	88	75 - 125	2	20

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

Matrix Spike (MS-2) Spiked Sample: 109577

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR
Prep Batch: 28241 QC Preparation: 2006-12-01 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	705	mg/Kg	1	50.0	650	110	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Sodium	710	mg/Kg	1	50.0	650	120	75 - 125	1	20

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

Standard (ICV-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/Kg	1.00	0.998	100	90 - 110	2006-12-04

Standard (ICV-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		mg/Kg	5.00	4.99	100	90 - 110	2006-12-04

Standard (ICV-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/Kg	1.00	1.02	102	90 - 110	2006-12-04

Standard (ICV-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/Kg	1.00	1.04	104	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/Kg	1.00	0.973	97	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		mg/Kg	5.00	4.79	96	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/Kg	1.00	0.982	98	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32475 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/Kg	1.00	1.01	101	90 - 110	2006-12-04

Standard (ICV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/Kg	1.00	0.998	100	90 - 110	2006-12-04

Standard (ICV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		mg/Kg	5.00	4.99	100	90 - 110	2006-12-04

Standard (ICV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/Kg	1.00	1.02	102	90 - 110	2006-12-04

Standard (ICV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/Kg	1.00	1.04	104	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/Kg	1.00	0.972	97	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	50.0	49.0	98	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		mg/Kg	5.00	4.82	96	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/Kg	1.00	0.968	97	90 - 110	2006-12-04

Standard (CCV-1)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/Kg	1.00	0.962	96	90 - 110	2006-12-04

Standard (CCV-2)

QC Batch: 32477 Date Analyzed: 2006-12-04 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	50.0	49.0	98	90 - 110	2006-12-04

Analytical and Quality Control Report

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

Report Date: January 4, 2007

Work Order: 6112109

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
109582	HLSF-0085-SB-011(10.0-11.0)	soil	2006-11-16	13:15	2006-11-17
109583	HLSF-0085-SB-011(20.0-21.0)	soil	2006-11-16	13:35	2006-11-17
109584	HLSF-0085-SB-011(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109585	HLSF-0085-SB-111(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109586	HLSF-0085-SB-011(40.0-42.0)	soil	2006-11-16	14:15	2006-11-17
109588	HLSF-0085-SB-011(49.0-50.0)	soil	2006-11-16	14:35	2006-11-17

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 4 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	Sample Preparation:	2006-11-30	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**5.29**	mg/Kg	25	0.100

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	Sample Preparation:	2006-11-30	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**0.514**	mg/Kg	5	0.100

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	Sample Preparation:	2006-11-30	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		< 0.10	mg/Kg	1	0.100

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	Sample Preparation:	2006-11-30	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		< 0.10	mg/Kg	1	0.100

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	Sample Preparation:	2006-11-30	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		< 0.10	mg/Kg	1	0.100

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	Nitrate and Nitrite as N	Analytical Method:	E 353.3	Prep Method:	N/A
QC Batch:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	Sample Preparation:	2006-11-30	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate and Nitrite as N		**1.02**	mg/Kg	10	0.100

Method Blank (1) QC Batch: 32384

QC Batch:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	QC Preparation:	2006-11-30	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:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	QC Preparation:	2006-11-30	Prepared By:	JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate and Nitrite as N	0.164	mg/Kg	1	0.160	<0.0155	102	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	0.171	mg/Kg	1	0.160	<0.0155	107	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: 109588

QC Batch:	32384	Date Analyzed:	2006-11-30	Analyzed By:	JS
Prep Batch:	28199	QC Preparation:	2006-11-30	Prepared By:	JS

continued . . .

matrix spikes continued . . .

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate and Nitrite as N	[1]	0.899	mg/Kg	10	1.60	1.02	-6	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	[2]	0.867	mg/Kg	10	1.60	1.02	-8	85 - 115	4	20

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

Standard (ICV-1)

QC Batch: 32384 Date Analyzed: 2006-11-30 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	0.170	106	85 - 115	2006-11-30

Standard (CCV-1)

QC Batch: 32384 Date Analyzed: 2006-11-30 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	0.176	110	85 - 115	2006-11-30

[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.

Analytical and Quality Control Report

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

Report Date: January 4, 2007

Work Order: 6112109

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
109577	HLSF-0085-SB-013(10.0-11.0)	soil	2006-11-16	08:45	2006-11-17
109578	HLSF-0085-SB-013(20.0-21.0)	soil	2006-11-16	09:00	2006-11-17
109579	HLSF-0085-SB-013(30.0-31.0)	soil	2006-11-16	09:25	2006-11-17
109580	HLSF-0085-SB-013(40.0-41.0)	soil	2006-11-16	09:55	2006-11-17
109581	HLSF-0085-SB-013(49.0-50.0)	soil	2006-11-16	10:25	2006-11-17
109582	HLSF-0085-SB-011(10.0-11.0)	soil	2006-11-16	13:15	2006-11-17
109583	HLSF-0085-SB-011(20.0-21.0)	soil	2006-11-16	13:35	2006-11-17
109584	HLSF-0085-SB-011(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109585	HLSF-0085-SB-111(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109586	HLSF-0085-SB-011(40.0-42.0)	soil	2006-11-16	14:15	2006-11-17
109588	HLSF-0085-SB-011(49.0-50.0)	soil	2006-11-16	14:35	2006-11-17
109589	HLSF-0085-SB-016(10.0-11.0)	soil	2006-11-16	15:50	2006-11-17
109590	HLSF-0085-SB-016(20.0-21.0)	soil	2006-11-16	16:05	2006-11-17

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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: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**6.47**	%	1	0.00

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**5.95**	%	1	0.00

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**0.986**	%	1	0.00

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**1.42**	%	1	0.00

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**0.809**	%	1	0.00

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**4.51**	%	1	0.00

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**4.82**	%	1	0.00

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**1.01**	%	1	0.00

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**2.00**	%	1	0.00

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**1.24**	%	1	0.00

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32330	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28108	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**0.854**	%	1	0.00

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32330	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28108	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**5.40**	%	1	0.00

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	FOC	Analytical Method:	ASTM D 2974-87	Prep Method:	N/A
QC Batch:	32330	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28108	Sample Preparation:	2006-11-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
FOC		**5.22**	%	1	0.00

Duplicates (1)

QC Batch:	32329	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28110	QC Preparation:	2006-11-27	Prepared By:	SM

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
FOC	1.12	1.24	%	1	10	34

Duplicates (1)

QC Batch:	32330	Date Analyzed:	2006-11-29	Analyzed By:	SM
Prep Batch:	28108	QC Preparation:	2006-11-27	Prepared By:	SM

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
FOC	1.04	0.854	%	1	20	34

Analytical and Quality Control Report

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

Report Date: January 4, 2007

Work Order: 6112109

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.

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109579	HLSF-0085-SB-013(30.0-31.0)	soil	2006-11-16	09:25	2006-11-17
109580	HLSF-0085-SB-013(40.0-41.0)	soil	2006-11-16	09:55	2006-11-17
109581	HLSF-0085-SB-013(49.0-50.0)	soil	2006-11-16	10:25	2006-11-17
109582	HLSF-0085-SB-011(10.0-11.0)	soil	2006-11-16	13:15	2006-11-17
109583	HLSF-0085-SB-011(20.0-21.0)	soil	2006-11-16	13:35	2006-11-17
109584	HLSF-0085-SB-011(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109585	HLSF-0085-SB-111(30.0-32.0)	soil	2006-11-16	13:55	2006-11-17
109586	HLSF-0085-SB-011(40.0-42.0)	soil	2006-11-16	14:15	2006-11-17
109588	HLSF-0085-SB-011(49.0-50.0)	soil	2006-11-16	14:35	2006-11-17
109589	HLSF-0085-SB-016(10.0-11.0)	soil	2006-11-16	15:50	2006-11-17
109590	HLSF-0085-SB-016(20.0-21.0)	soil	2006-11-16	16:05	2006-11-17

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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: 109577 - HLSF-0085-SB-013(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109578 - HLSF-0085-SB-013(20.0-21.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109579 - HLSF-0085-SB-013(30.0-31.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109580 - HLSF-0085-SB-013(40.0-41.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109581 - HLSF-0085-SB-013(49.0-50.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109582 - HLSF-0085-SB-011(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109583 - HLSF-0085-SB-011(20.0-21.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109584 - HLSF-0085-SB-011(30.0-32.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109585 - HLSF-0085-SB-111(30.0-32.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109586 - HLSF-0085-SB-011(40.0-42.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109588 - HLSF-0085-SB-011(49.0-50.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32334	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28159	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109589 - HLSF-0085-SB-016(10.0-11.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32334	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28159	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Sample: 109590 - HLSF-0085-SB-016(20.0-21.0)

Analysis:	Chromium, Hexavalent	Analytical Method:	SM 3500-Cr B	Prep Method:	N/A
QC Batch:	32334	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28159	Sample Preparation:	2006-11-28	Prepared By:	WB

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

Method Blank (1) QC Batch: 32333

QC Batch:	32333	Date Analyzed:	2006-11-29	Analyzed By:	WB
Prep Batch:	28158	QC Preparation:	2006-11-28	Prepared By:	WB

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

Method Blank (1) QC Batch: 32334

QC Batch: 32334 Date Analyzed: 2006-11-29 Analyzed By: WB
Prep Batch: 28159 QC Preparation: 2006-11-28 Prepared By: WB

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

Laboratory Control Spike (LCS-1)

QC Batch: 32333 Date Analyzed: 2006-11-29 Analyzed By: WB
Prep Batch: 28158 QC Preparation: 2006-11-28 Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	36.7	mg/Kg	1	40.0	<2.32	92	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	37.1	mg/Kg	1	40.0	<2.32	93	77.3 - 119	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: 32334 Date Analyzed: 2006-11-29 Analyzed By: WB
Prep Batch: 28159 QC Preparation: 2006-11-28 Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium	31.6	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	32.1	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.

Matrix Spike (MS-1) Spiked Sample: 109586

QC Batch: 32333 Date Analyzed: 2006-11-29 Analyzed By: WB
Prep Batch: 28158 QC Preparation: 2006-11-28 Prepared By: WB

continued . . .

matrix spikes continued . . .

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium [1]	28.4	mg/Kg	1	40.0	<2.32	71	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]	26.5	mg/Kg	1	40.0	<2.32	66	85 - 115	7	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: 109681

QC Batch: 32334 Date Analyzed: 2006-11-29 Analyzed By: WB
Prep Batch: 28159 QC Preparation: 2006-11-28 Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Hexavalent Chromium [3]	<2.32	mg/Kg	1	40.0	<2.32	0	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]	<2.32	mg/Kg	1	40.0	<2.32	0	85 - 115	0	20

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

Standard (ICV-1)

QC Batch: 32333 Date Analyzed: 2006-11-29 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	0.434	87	85 - 115	2006-11-29

Standard (CCV-1)

QC Batch: 32333 Date Analyzed: 2006-11-29 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	0.466	93	85 - 115	2006-11-29

[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.

Standard (ICV-1)

QC Batch: 32334 Date Analyzed: 2006-11-29 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	0.466	93	85 - 115	2006-11-29

Standard (CCV-1)

QC Batch: 32334 Date Analyzed: 2006-11-29 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	0.492	98	85 - 115	2006-11-29