

White Sands Missile Range- HELSTF Sewage Lagoons

Data Review

WHITE SANDS MISSILE RANGE, NEW MEXICO

Volatiles, Semivolatiles and Metals Analyses

SDG #9120810

Analyses Performed By:
Trace Analysis, Inc.
Lubbock, Texas

Report #11576R
Review Level: Tier II
Project: GP08WSMR0C79.DF001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #9120810 for samples collected in association with the White Sands Missile Range-HELSTF Sewage Lagoons. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
HLSF-LAGN-FB-001-1209	216576	WATER	12/7/09		X				
HLSF-LAGN2-SL-04-1209	216578	SLUDGE	12/7/09			X		X	
HLSF-LAGN2-SB-04-(1.5-2.0)	216579	SOIL	12/7/09			X		X	
HLSF-LAGN2-SL-05-1209	216580	SLUDGE	12/7/09			X		X	
HLSF-LAGN2-SB-05-(0.3-0.9)	216581	SOIL	12/7/09			X		X	
HLSF-LAGN2-SL-02-1209	216582	SLUDGE	12/7/09			X		X	
HLSF-LAGN2-SB-02-(1.5-2.0)	216583	SOIL	12/7/09			X		X	
HLSF-LAGN2-SL-03-1209	216584	SLUDGE	12/7/09			X		X	
HLSF-LAGN2-SB-03-(1.5-2.0)	216585	SOIL	12/7/09			X		X	
HLSF-LAGN2-SL-01-1209	216586	SLUDGE	12/7/09			X		X	
HLSF-LAGN2-SB-01-(1.5-2.0)	216587	SOIL	12/7/09			X		X	
HLSF-LAGN2-SB-105-(0.3-0.9)	216588	SOIL	12/7/09	HLSF-LAGN2-SB-05-(0.3-0.9)		X		X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and 8270C. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999/January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination with which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Methylene chloride was detected in the associated QA method blank; however, the associated sample location is a field blank. Therefore, no qualification of the sample result was required.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD was not performed on the sample location analyzed for 8260B associated with this SDG.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
HLSF-LAGN-FB-001-1209	Methylene chloride	>UL	>UL

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate was not collected with the sample location associated with this SDG.

7. Compound Identification

Compounds are identified on the GC/MS by laboratory personnel using the analytes relative retention time and ion spectra. These identifications were not reviewed by the data validator.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X	X		
C. Trip blanks					X
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate(LCSD)		X	X		
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery

RPD Relative percent difference

SEMI-VOLATILE VOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270C	Soil/Sludge	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Surrogate	Recovery
HLSF-LAGN2-SL-04-1209 HLSF-LAGN2-SL-05-1209 HLSF-LAGN2-SL-02-1209	2-Fluorophenol	D
	Phenol-d5	D
	Nitrobenzene-d5	D
	2-Fluorobiphenyl	D
	2,4,6-Tribromophenol	D
	Terphenyl-d14	D
HLSF-LAGN2-SB-105-(0.3-0.9)	2-Fluorophenol	<10%

Sample Locations	Surrogate	Recovery
	Nitrobenzene-d5	<10%

D Diluted

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	No Action
	Detect	J
< LL but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	J ¹
	Detect	

¹ A more concentrated analysis was not performed with surrogate compounds within the calibration range; therefore, no determination of extraction efficiency could be made.

Sample locations HLSF-LAGN2-SL-04-1209, HLSF-LAGN2-SL-05-1209, and HLSF-LAGN2-SL-02-1209 were all diluted due to matrix. Due to the dilution surrogates were diluted below the calibration range of the instrument. Therefore the surrogate recoveries noted on the laboratory result sheet were inaccurate and have been crossed out and replaced with a "D" qualifier.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD control limits.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within and RPD between the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
HLSF-LAGN2-SB-05-(0.3-0.9)/ HLSF-LAGN2-SB-105-(0.3-0.9)	All compounds	ND	ND	AC

AC Acceptable
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. Compound Identification

Compounds are identified on the GC/MS by laboratory personnel using the analytes relative retention time and ion spectra. These identifications were not reviewed by the data validator.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs: SW-846 8270C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X	X		
Dilution Factor		X		X	
Moisture Content		X		X	

%R Percent recovery
 RPD Relative percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010B and 7471B. Data were reviewed in accordance with USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Soil/Sludge	180 days from collection to analysis	Cooled @ 4 °C.
SW-846 7471	Soil/Sludge	28 days from collection to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS analyses performed on sample locations HLSF-LAGN2-SL-04-1209, HLSF-LAGN2-SB-01-(1.5-2.0) and HLSF-LAGN2-SB-105-(0.3-0.9) exhibited recoveries within the control limits.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit

of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

A laboratory duplicate sample was not performed on sample location associated with this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for soil matrices.

Results for duplicate samples, in which target metals were detected in either sample, are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
HLSF-LAGN2-SB-05-(0.3-0.9)/ HLSF-LAGN2-SB-105-(0.3-0.9)	Barium	29.6	32.6	10%
	Chromium	2.83	2.95	4%

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS/LCSD analysis exhibited recoveries within and RPD between the control limits.

7. Furnace Analysis QC

No furnace analyses were performed on the samples.

8. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

9. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010B/7471B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks					X
B. Method Blanks		X		X	
C. Equipment/Field Blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)		X		X	
LCS/LCSD RPD		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		X		X	
Raw Data		X		X	
Moisture Content		X		X	

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Lisa Horton

SIGNATURE:



DATE: February 15, 2010

PEER REVIEW: Dennis Capria

DATE: February 17, 2010

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

9120810

in compliance with environmental

CHAIN OF CUSTODY RECORD

DATE	TIME	LOCATION	CONTAINER	NO. OF CONTAINERS	RCRA METALS	VOCs	OTHER	INITIALS	DATE
12-7-09	1625	HLSF-LAGN-FB-001-1209	Water	3	X	X	VOCs only		
12-7-09	1510	HLSF-LAGN-SL-04-1209	Sludge	1	X	X			
12-7-09	1530	HLSF-LAGN-SB-04-15-20	Soil	1	X	X			
12-7-09	1540	HLSF-LAGN-SL-05-1209	Sludge	1	X	X			
12-7-09	1550	HLSF-LAGN-SB-05-03-09	Soil	1	X	X			
12-7-09	1420	HLSF-LAGN-SL-02-1209	Sludge	1	X	X			
12-7-09	1440	HLSF-LAGN-SB-02-15-20	Soil	1	X	X			
12-7-09	1450	HLSF-LAGN-SL-03-1209	Sludge	1	X	X			
12-7-09	1505	HLSF-LAGN-SB-03-15-20	Soil	1	X	X			
12-7-09	1400	HLSF-LAGN-SL-01-1209	Sludge	1	X	X			
12-7-09	1415	HLSF-LAGN-SB-01-15-20	Soil	1	X	X			
12-7-09	1550	HLSF-LAGN-SB-05-03-09	Soil	1	X	X			
12-7-09	1550	HLSF-LAGN-S-350							

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *H Taylor*

DATE: 5.1/5.5C

TIME: 12-8-09

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

INITIALS: *Bry T. Davis*

DATE: 12-8-09

TIME: 1:15

LOCATION: *HLSF LAGN*

CONTAINER: *3*

NO. OF CONTAINERS: *3*

RCRA METALS: *X*

VOCs: *X*

OTHER: *VOCs only*

9882 0033 5739

12-8-09

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 216576 - HLSF-LAGN-FB-001-1209

Laboratory: Lubbock	Analytical Method: S 8260B	Prep Method: S 5030B
Analysis: Volatiles	Date Analyzed: 2009-12-08	Analyzed By: KB
QC Batch: 65853	Sample Preparation: 2009-12-08	Prepared By: KB
Prep Batch: 56288		

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Bromochloromethane	U	<0.370	<1.00	<0.370	µg/L	1	0.370	1	0.37
Dichlorodifluoromethane	U	<0.450	<1.00	<0.450	µg/L	1	0.450	1	0.45
Chloromethane (methyl chloride)	U	<0.590	<1.00	<0.590	µg/L	1	0.590	1	0.59
Vinyl Chloride	U	<0.690	<1.00	<0.690	µg/L	1	0.690	1	0.69
Bromomethane (methyl bromide)	U	<0.750	<5.00	<0.750	µg/L	1	0.750	5	0.75
Chloroethane	U	<0.570	<1.00	<0.570	µg/L	1	0.570	1	0.57
Trichlorofluoromethane	U	<0.470	<1.00	<0.470	µg/L	1	0.470	1	0.47
Acetone	U	<1.75	<10.0	<1.75	µg/L	1	1.75	10	1.75
Iodomethane (methyl iodide)	U	<0.320	<5.00	<0.320	µg/L	1	0.320	5	0.32
Carbon Disulfide	U	<0.250	<1.00	<0.250	µg/L	1	0.250	1	0.25
Acrylonitrile	U	<0.320	<1.00	<0.320	µg/L	1	0.320	1	0.32
2-Butanone (MEK)	U	<0.810	<5.00	<0.810	µg/L	1	0.810	5	0.81
4-Methyl-2-pentanone (MIBK)	U	<0.790	<5.00	<0.790	µg/L	1	0.790	5	0.79
2-Hexanone	U	<0.510	<5.00	<0.510	µg/L	1	0.510	5	0.51
trans 1,4-Dichloro-2-butene	U	<0.490	<10.0	<0.490	µg/L	1	0.490	10	0.49
1,1-Dichloroethene	¹ U	<0.400	<1.00	<0.400	µg/L	1	0.400	1	0.4
Methylene chloride	² JB	0.710	<5.00	1.58	µg/L	1	0.450	5	0.45
MTBE	U	<0.400	<1.00	<0.400	µg/L	1	0.400	1	0.4
trans-1,2-Dichloroethene	U	<0.330	<1.00	<0.330	µg/L	1	0.330	1	0.33
1,1-Dichloroethane	U	<0.290	<1.00	<0.290	µg/L	1	0.290	1	0.29
cis-1,2-Dichloroethene	U	<0.200	<1.00	<0.200	µg/L	1	0.200	1	0.2
2,2-Dichloropropane	U	<0.420	<1.00	<0.420	µg/L	1	0.420	1	0.42
1,2-Dichloroethane (EDC)	U	<0.350	<1.00	<0.350	µg/L	1	0.350	1	0.35
Chloroform		2.61	2.61	<0.270	µg/L	1	0.270	1	0.27
1,1,1-Trichloroethane	U	<0.230	<1.00	<0.230	µg/L	1	0.230	1	0.23
1,1-Dichloropropene	U	<0.340	<1.00	<0.340	µg/L	1	0.340	1	0.34
Benzene	U	<0.240	<1.00	<0.240	µg/L	1	0.240	1	0.24
Carbon Tetrachloride	³ U	<0.300	<1.00	<0.300	µg/L	1	0.300	1	0.3
1,2-Dichloropropane	U	<0.360	<1.00	<0.360	µg/L	1	0.360	1	0.36
Trichloroethene (TCE)	U	<0.300	<1.00	<0.300	µg/L	1	0.300	1	0.3
Dibromomethane (methylene bromide)	U	<0.470	<1.00	<0.470	µg/L	1	0.470	1	0.47
Bromodichloromethane	U	<0.280	<1.00	<0.280	µg/L	1	0.280	1	0.28
2-Chloroethyl vinyl ether	U	<0.330	<5.00	<0.330	µg/L	1	0.330	5	0.33

continued ...

¹ Concentration biased high.

² Concentration biased high.

³ Concentration biased high.

sample 216576 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
cis-1,3-Dichloropropene	U	<0.330	<1.00	<0.330	µg/L	1	0.330	1	0.33
trans-1,3-Dichloropropene	U	<0.380	<1.00	<0.380	µg/L	1	0.380	1	0.38
Toluene		1.10	1.10	<0.270	µg/L	1	0.270	1	0.27
1,1,2-Trichloroethane	U	<0.280	<1.00	<0.280	µg/L	1	0.280	1	0.28
1,3-Dichloropropane	U	<0.270	<1.00	<0.270	µg/L	1	0.270	1	0.27
Dibromochloromethane	U	<0.320	<1.00	<0.320	µg/L	1	0.320	1	0.32
1,2-Dibromoethane (EDB)	U	<0.340	<1.00	<0.340	µg/L	1	0.340	1	0.34
Tetrachloroethene (PCE)	U	<0.280	<1.00	<0.280	µg/L	1	0.280	1	0.28
Chlorobenzene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
1,1,1,2-Tetrachloroethane	U	<0.220	<1.00	<0.220	µg/L	1	0.220	1	0.22
Ethylbenzene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
m,p-Xylene	U	<0.540	<1.00	<0.540	µg/L	1	0.540	1	0.54
Bromoform	U	<0.230	<1.00	<0.230	µg/L	1	0.230	1	0.23
Styrene	U	<0.210	<1.00	<0.210	µg/L	1	0.210	1	0.21
o-Xylene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
1,1,2,2-Tetrachloroethane	U	<0.420	<1.00	<0.420	µg/L	1	0.420	1	0.42
2-Chlorotoluene	U	<0.240	<1.00	<0.240	µg/L	1	0.240	1	0.24
1,2,3-Trichloropropane	U	<0.430	<1.00	<0.430	µg/L	1	0.430	1	0.43
Isopropylbenzene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
Bromobenzene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
n-Propylbenzene	U	<0.310	<1.00	<0.310	µg/L	1	0.310	1	0.31
1,3,5-Trimethylbenzene	U	<0.270	<1.00	<0.270	µg/L	1	0.270	1	0.27
tert-Butylbenzene	U	<0.300	<1.00	<0.300	µg/L	1	0.300	1	0.3
1,2,4-Trimethylbenzene	U	<0.290	<1.00	<0.290	µg/L	1	0.290	1	0.29
1,4-Dichlorobenzene (para)	U	<0.240	<1.00	<0.240	µg/L	1	0.240	1	0.24
sec-Butylbenzene	U	<0.280	<1.00	<0.280	µg/L	1	0.280	1	0.28
1,3-Dichlorobenzene (meta)	U	<0.310	<1.00	<0.310	µg/L	1	0.310	1	0.31
p-Isopropyltoluene	U	<0.330	<1.00	<0.330	µg/L	1	0.330	1	0.33
4-Chlorotoluene	U	<0.290	<1.00	<0.290	µg/L	1	0.290	1	0.29
1,2-Dichlorobenzene (ortho)	U	<0.270	<1.00	<0.270	µg/L	1	0.270	1	0.27
n-Butylbenzene	U	<0.300	<1.00	<0.300	µg/L	1	0.300	1	0.3
1,2-Dibromo-3-chloropropane	U	<0.680	<5.00	<0.680	µg/L	1	0.680	5	0.68
1,2,3-Trichlorobenzene	U	<0.330	<5.00	<0.330	µg/L	1	0.330	5	0.33
1,2,4-Trichlorobenzene	U	<0.340	<5.00	<0.340	µg/L	1	0.340	5	0.34
Naphthalene	U	<0.280	<5.00	<0.280	µg/L	1	0.280	5	0.28
Hexachlorobutadiene	U	<0.540	<5.00	<0.540	µg/L	1	0.540	5	0.54

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.4	µg/L	1	50.0	105	81.3 - 123
Toluene-d8		45.2	µg/L	1	50.0	90	87.3 - 110
4-Bromofluorobenzene (4-BFB)		47.7	µg/L	1	50.0	95	86.3 - 115

Sample: 216578 - HLSF-LAGN2-SL-04-1209

Laboratory: Lubbock	Analytical Method: ASTM D 2216-05	Prep Method: N/A
Analysis: Moisture Content	Date Analyzed: 2009-12-17	Analyzed By: KV
QC Batch: 66078	Sample Preparation: 2009-12-17	Prepared By: KV
Prep Batch: 56485		

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		27.3	%	1	

Sample: 216578 - HLSF-LAGN2-SL-04-1209

Laboratory: Lubbock	Analytical Method: S 8270C	Prep Method: S 3550
Analysis: Semivolatiles WTS	Date Analyzed: 2009-12-22	Analyzed By: MN
QC Batch: 66208	Sample Preparation: 2009-12-18	Prepared By: MN
Prep Batch: 56589		

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Pyridine	⁴ U	<4.38	<17.2	<4.38	mg/Kg	50	4.38	0.25	0.0637
N-Nitrosodimethylamine	U	<2.11	<17.2	<2.11	mg/Kg	50	2.11	0.25	0.0307
2-Picoline	U	<4.80	<17.2	<4.80	mg/Kg	50	4.80	0.25	0.0698
Methyl methanesulfonate	U	<2.06	<17.2	<2.06	mg/Kg	50	2.06	0.25	0.0299
Ethyl methanesulfonate	U	<2.68	<17.2	<2.68	mg/Kg	50	2.68	0.25	0.039
Phenol	U	<4.14	<17.2	<4.14	mg/Kg	50	4.14	0.25	0.060225
Aniline	U	<2.54	<17.2	<2.54	mg/Kg	50	2.54	0.25	0.0369
bis(2-chloroethyl)ether	U	<2.80	<17.2	<2.80	mg/Kg	50	2.80	0.25	0.0407
2-Chlorophenol	U	<6.35	<17.2	<6.35	mg/Kg	50	6.35	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<2.06	<17.2	<2.06	mg/Kg	50	2.06	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<2.08	<17.2	<2.08	mg/Kg	50	2.08	0.25	0.0303
Benzyl alcohol	U	<4.25	<17.2	<4.25	mg/Kg	50	4.25	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<2.12	<17.2	<2.12	mg/Kg	50	2.12	0.25	0.0308
2-Methylphenol	U	<3.47	<17.2	<3.47	mg/Kg	50	3.47	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<1.87	<17.2	<1.87	mg/Kg	50	1.87	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<2.40	<17.2	<2.40	mg/Kg	50	2.40	0.25	0.0349
Acetophenone	U	<2.90	<17.2	<2.90	mg/Kg	50	2.90	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<3.30	<17.2	<3.30	mg/Kg	50	3.30	0.25	0.048
Hexachloroethane	U	<3.59	<17.2	<3.59	mg/Kg	50	3.59	0.25	0.0522
Nitrobenzene	U	<12.3	<17.2	<12.3	mg/Kg	50	12.3	0.25	0.1794
N-Nitrosopiperidine	U	<2.43	<17.2	<2.43	mg/Kg	50	2.43	0.25	0.0354
Isophorone	U	<5.52	<17.2	<5.52	mg/Kg	50	5.52	0.25	0.0802
2-Nitrophenol	U	<1.62	<17.2	<1.62	mg/Kg	50	1.62	0.25	0.0236
2,4-Dimethylphenol	U	<2.86	<17.2	<2.86	mg/Kg	50	2.86	0.25	0.0416
bis(2-chloroethoxy)methane	U	<3.37	<17.2	<3.37	mg/Kg	50	3.37	0.25	0.049
Benzoic acid	U	<9.45	<17.2	<9.45	mg/Kg	50	9.45	0.25	0.1374
2,4-Dichlorophenol	U	<8.92	<17.2	<8.92	mg/Kg	50	8.92	0.25	0.1297
1,2,4-Trichlorobenzene	U	<2.04	<17.2	<2.04	mg/Kg	50	2.04	0.25	0.0297

continued ...

⁴Sample ran at a dilution due to matrix difficulties.

sample 216578 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
a,a-Dimethylphenethylamine	U	<3.66	<17.2	<3.66	mg/Kg	50	3.66	0.25	0.0533
Naphthalene	U	<2.52	<17.2	<2.52	mg/Kg	50	2.52	0.25	0.0367
4-Chloroaniline	U	<3.38	<17.2	<3.38	mg/Kg	50	3.38	0.25	0.0492
2,6-Dichlorophenol	U	<2.51	<17.2	<2.51	mg/Kg	50	2.51	0.25	0.0365
Hexachlorobutadiene	U	<2.50	<17.2	<2.50	mg/Kg	50	2.50	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<3.52	<17.2	<3.52	mg/Kg	50	3.52	0.25	0.0512
4-Chloro-3-methylphenol	U	<3.26	<17.2	<3.26	mg/Kg	50	3.26	0.25	0.0474
1-Methylnaphthalene	U	<2.87	<17.2	<2.87	mg/Kg	50	2.87	0.25	0.0417
2-Methylnaphthalene	U	<2.33	<17.2	<2.33	mg/Kg	50	2.33	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<2.06	<17.2	<2.06	mg/Kg	50	2.06	0.25	0.03
Hexachlorocyclopentadiene	U	<2.42	<17.2	<2.42	mg/Kg	50	2.42	0.25	0.0352
2,4,6-Trichlorophenol	U	<2.31	<17.2	<2.31	mg/Kg	50	2.31	0.25	0.0336
2,4,5-Trichlorophenol	U	<2.77	<17.2	<2.77	mg/Kg	50	2.77	0.25	0.0403
2-Chloronaphthalene	U	<1.83	<17.2	<1.83	mg/Kg	50	1.83	0.25	0.0266
1-Chloronaphthalene	U	<1.81	<17.2	<1.81	mg/Kg	50	1.81	0.25	0.0263
2-Nitroaniline	U	<1.99	<17.2	<1.99	mg/Kg	50	1.99	0.25	0.029
Dimethylphthalate	U	<1.99	<17.2	<1.99	mg/Kg	50	1.99	0.25	0.029
Acenaphthylene	U	<4.48	<17.2	<4.48	mg/Kg	50	4.48	0.25	0.0651
2,6-Dinitrotoluene	U	<3.68	<17.2	<3.68	mg/Kg	50	3.68	0.25	0.0535
3-Nitroaniline	U	<2.90	<17.2	<2.90	mg/Kg	50	2.90	0.25	0.0421
Acenaphthene	U	<5.12	<17.2	<5.12	mg/Kg	50	5.12	0.25	0.0745
2,4-Dinitrophenol	U	<5.91	<17.2	<5.91	mg/Kg	50	5.91	0.25	0.086
Dibenzofuran	U	<1.88	<17.2	<1.88	mg/Kg	50	1.88	0.25	0.0274
Pentachlorobenzene	U	<2.72	<17.2	<2.72	mg/Kg	50	2.72	0.25	0.0396
4-Nitrophenol	U	<11.6	<17.2	<11.6	mg/Kg	50	11.6	0.25	0.1686
1-Naphthylamine	U	<2.09	<17.2	<2.09	mg/Kg	50	2.09	0.25	0.0304
2,4-Dinitrotoluene	U	<4.19	<17.2	<4.19	mg/Kg	50	4.19	0.25	0.0609
2-Naphthylamine	U	<10.5	<17.2	<10.5	mg/Kg	50	10.5	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<2.78	<17.2	<2.78	mg/Kg	50	2.78	0.25	0.0404
Fluorene	U	<2.99	<17.2	<2.99	mg/Kg	50	2.99	0.25	0.0435
Diethylphthalate	U	<2.76	<17.2	<2.76	mg/Kg	50	2.76	0.25	0.0402
4-Chlorophenyl-phenylether	U	<2.37	<17.2	<2.37	mg/Kg	50	2.37	0.25	0.0345
4-Nitroaniline	U	<1.21	<17.2	<1.21	mg/Kg	50	1.21	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<22.7	<17.2	<22.7	mg/Kg	50	22.7	0.25	0.33
Diphenylamine	U	<3.24	<17.2	<3.24	mg/Kg	50	3.24	0.25	0.0471
Diphenylhydrazine	U	<4.41	<17.2	<4.41	mg/Kg	50	4.41	0.25	0.0641
4-Bromophenyl-phenylether	U	<2.13	<17.2	<2.13	mg/Kg	50	2.13	0.25	0.031
Phenacetin	U	<2.36	<17.2	<2.36	mg/Kg	50	2.36	0.25	0.0344
Hexachlorobenzene	U	<2.10	<17.2	<2.10	mg/Kg	50	2.10	0.25	0.0306
4-Aminobiphenyl	U	<8.80	<17.2	<8.80	mg/Kg	50	8.80	0.25	0.128
Pentachlorophenol	U	<10.4	<17.2	<10.4	mg/Kg	50	10.4	0.25	0.1509
Pentachloronitrobenzene	U	<5.33	<17.2	<5.33	mg/Kg	50	5.33	0.25	0.0775
Pronamide	U	<1.82	<17.2	<1.82	mg/Kg	50	1.82	0.25	0.0265
Phenanthrene	U	<5.07	<17.2	<5.07	mg/Kg	50	5.07	0.25	0.0737
Anthracene	U	<2.60	<17.2	<2.60	mg/Kg	50	2.60	0.25	0.0378

continued ...

sample 216578 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Di-n-butylphthalate	U J	<2.06	<17.2	<2.06	mg/Kg	50	2.06	0.25	0.02997
Fluoranthene	U	<2.38	<17.2	<2.38	mg/Kg	50	2.38	0.25	0.0346
Benzidine	U	<7.83	<17.2	<7.83	mg/Kg	50	7.83	0.25	0.1138
Pyrene	U	<10.4	<17.2	<10.4	mg/Kg	50	10.4	0.25	0.1507
p-Dimethylaminoazobenzene	U	<2.05	<17.2	<2.05	mg/Kg	50	2.05	0.25	0.0298
Butylbenzylphthalate	U	<4.05	<17.2	<4.05	mg/Kg	50	4.05	0.25	0.0589
Benzo(a)anthracene	U	<3.08	<17.2	<3.08	mg/Kg	50	3.08	0.25	0.04486
3,3-Dichlorobenzidine	U	<11.1	<17.2	<11.1	mg/Kg	50	11.1	0.25	0.1616
Chrysene	U	<2.46	<17.2	<2.46	mg/Kg	50	2.46	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<5.54	<17.2	<5.54	mg/Kg	50	5.54	0.25	0.0805
Di-n-octylphthalate	U	<2.71	<17.2	<2.71	mg/Kg	50	2.71	0.25	0.0394
Benzo(b)fluoranthene	U	<4.43	<17.2	<4.43	mg/Kg	50	4.43	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<2.45	<17.2	<2.45	mg/Kg	50	2.45	0.25	0.0356
Benzo(k)fluoranthene	U	<3.19	<17.2	<3.19	mg/Kg	50	3.19	0.25	0.0464
Benzo(a)pyrene	U	<2.40	<17.2	<2.40	mg/Kg	50	2.40	0.25	0.03489
3-Methylcholanthrene	U	<5.10	<17.2	<5.10	mg/Kg	50	5.10	0.25	0.0741
Dibenzo(a,j)acridine	U	<1.99	<17.2	<1.99	mg/Kg	50	1.99	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<1.97	<17.2	<1.97	mg/Kg	50	1.97	0.25	0.0287
Dibenzo(a,h)anthracene	U	<3.08	<17.2	<3.08	mg/Kg	50	3.08	0.25	0.04478
Benzo(g,h,i)perylene	U J	<1.90	<17.2	<1.90	mg/Kg	50	1.90	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.300	mg/Kg	50	2.67	11 D	8.6 - 115
Phenol-d5		0.180	mg/Kg	50	2.67	7 D	6.3 - 124
Nitrobenzene-d5		1.24	mg/Kg	50	2.67	46 D	11.3 - 116
2-Fluorobiphenyl		2.52	mg/Kg	50	2.67	94 D	14.6 - 122
2,4,6-Tribromophenol	5	0.00	mg/Kg	50	2.67	0 D	13.8 - 123
Terphenyl-d14		2.75	mg/Kg	50	2.67	103 D	30.8 - 134

Sample: 216578 - HLSF-LAGN2-SL-04-1209

Laboratory: Lubbock			
Analysis: Total 8 Metals	Analytical Method: S 7471 B	Prep Method: N/A	
QC Batch: 65947	Date Analyzed: 2009-12-11	Analyzed By: TP	
Prep Batch: 56360	Sample Preparation: 2009-12-11	Prepared By: TP	
Laboratory: Lubbock			
Analysis: Total 8 Metals	Analytical Method: S 6010B	Prep Method: S 3050B	
QC Batch: 65954	Date Analyzed: 2009-12-14	Analyzed By: RR	
Prep Batch: 56340	Sample Preparation: 2009-12-11	Prepared By: KV	

⁵8270 Only - One acidic surrogate is out of control limits. The other two acidic surrogates show extraction was performed properly.

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	<0.0910	<0.344	<0.0910	mg/Kg	1	0.0910	0.25	0.0662
Total Arsenic	U	<0.766	<2.75	<0.766	mg/Kg	1	0.766	2	0.557
Total Barium		25.8	25.8	<0.0748	mg/Kg	1	0.0748	1	0.0544
Total Cadmium	U	<0.0374	<0.275	<0.0374	mg/Kg	1	0.0374	0.2	0.0272
Total Chromium		1.23	1.23	<0.0800	mg/Kg	1	0.0800	0.5	0.0582
Total Mercury		0.0989	0.0989	<0.00293	mg/Kg	1	0.00293	0.025	0.00213
Total Lead	U	<0.285	<1.38	<0.285	mg/Kg	1	0.285	1	0.207
Total Selenium	U	<0.858	<2.75	<0.858	mg/Kg	1	0.858	2	0.624

Sample: 216579 - HLSF-LAGN2-SB-04-(1.5-2.0)

Laboratory: Lubbock
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 66078 Date Analyzed: 2009-12-17 Analyzed By: KV
 Prep Batch: 56485 Sample Preparation: 2009-12-17 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		32.2	%	1	

Sample: 216579 - HLSF-LAGN2-SB-04-(1.5-2.0)

Laboratory: Lubbock
 Analysis: Semivolatiles WTS Analytical Method: S 8270C Prep Method: S 3550
 QC Batch: 66208 Date Analyzed: 2009-12-22 Analyzed By: MN
 Prep Batch: 56589 Sample Preparation: 2009-12-18 Prepared By: MN

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Pyridine	U	<0.0940	<0.369	<0.0940	mg/Kg	1	0.0940	0.25	0.0637
N-Nitrosodimethylamine	U	<0.0453	<0.369	<0.0453	mg/Kg	1	0.0453	0.25	0.0307
2-Picoline	U	<0.103	<0.369	<0.103	mg/Kg	1	0.103	0.25	0.0698
Methyl methanesulfonate	U	<0.0441	<0.369	<0.0441	mg/Kg	1	0.0441	0.25	0.0299
Ethyl methanesulfonate	U	<0.0575	<0.369	<0.0575	mg/Kg	1	0.0575	0.25	0.039
Phenol	U	<0.0889	<0.369	<0.0889	mg/Kg	1	0.0889	0.25	0.060225
Aniline	U	<0.0544	<0.369	<0.0544	mg/Kg	1	0.0544	0.25	0.0369
bis(2-chloroethyl)ether	U	<0.0600	<0.369	<0.0600	mg/Kg	1	0.0600	0.25	0.0407
2-Chlorophenol	U	<0.136	<0.369	<0.136	mg/Kg	1	0.136	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<0.0441	<0.369	<0.0441	mg/Kg	1	0.0441	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<0.0447	<0.369	<0.0447	mg/Kg	1	0.0447	0.25	0.0303
Benzyl alcohol	U	<0.0912	<0.369	<0.0912	mg/Kg	1	0.0912	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<0.0454	<0.369	<0.0454	mg/Kg	1	0.0454	0.25	0.0308
2-Methylphenol	U	<0.0744	<0.369	<0.0744	mg/Kg	1	0.0744	0.25	0.0504

continued ...

sample 216579 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
bis(2-chloroisopropyl)ether	U	<0.0401	<0.369	<0.0401	mg/Kg	1	0.0401	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<0.0515	<0.369	<0.0515	mg/Kg	1	0.0515	0.25	0.0349
Acetophenone	U	<0.0623	<0.369	<0.0623	mg/Kg	1	0.0623	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<0.0708	<0.369	<0.0708	mg/Kg	1	0.0708	0.25	0.048
Hexachloroethane	U	<0.0770	<0.369	<0.0770	mg/Kg	1	0.0770	0.25	0.0522
Nitrobenzene	U	<0.265	<0.369	<0.265	mg/Kg	1	0.265	0.25	0.1794
N-Nitrosopiperidine	U	<0.0522	<0.369	<0.0522	mg/Kg	1	0.0522	0.25	0.0354
Isophorone	U	<0.118	<0.369	<0.118	mg/Kg	1	0.118	0.25	0.0802
2-Nitrophenol	U	<0.0348	<0.369	<0.0348	mg/Kg	1	0.0348	0.25	0.0236
2,4-Dimethylphenol	U	<0.0614	<0.369	<0.0614	mg/Kg	1	0.0614	0.25	0.0416
bis(2-chloroethoxy)methane	U	<0.0723	<0.369	<0.0723	mg/Kg	1	0.0723	0.25	0.049
Benzoic acid	U	<0.203	<0.369	<0.203	mg/Kg	1	0.203	0.25	0.1374
2,4-Dichlorophenol	U	<0.191	<0.369	<0.191	mg/Kg	1	0.191	0.25	0.1297
1,2,4-Trichlorobenzene	U	<0.0438	<0.369	<0.0438	mg/Kg	1	0.0438	0.25	0.0297
a,a-Dimethylphenethylamine	U	<0.0786	<0.369	<0.0786	mg/Kg	1	0.0786	0.25	0.0533
Naphthalene	U	<0.0542	<0.369	<0.0542	mg/Kg	1	0.0542	0.25	0.0367
4-Chloroaniline	U	<0.0726	<0.369	<0.0726	mg/Kg	1	0.0726	0.25	0.0492
2,6-Dichlorophenol	U	<0.0538	<0.369	<0.0538	mg/Kg	1	0.0538	0.25	0.0365
Hexachlorobutadiene	U	<0.0537	<0.369	<0.0537	mg/Kg	1	0.0537	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<0.0755	<0.369	<0.0755	mg/Kg	1	0.0755	0.25	0.0512
4-Chloro-3-methylphenol	U	<0.0699	<0.369	<0.0699	mg/Kg	1	0.0699	0.25	0.0474
1-Methylnaphthalene	U	<0.0615	<0.369	<0.0615	mg/Kg	1	0.0615	0.25	0.0417
2-Methylnaphthalene	U	<0.0500	<0.369	<0.0500	mg/Kg	1	0.0500	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<0.0443	<0.369	<0.0443	mg/Kg	1	0.0443	0.25	0.03
Hexachlorocyclopentadiene	U	<0.0519	<0.369	<0.0519	mg/Kg	1	0.0519	0.25	0.0352
2,4,6-Trichlorophenol	U	<0.0496	<0.369	<0.0496	mg/Kg	1	0.0496	0.25	0.0336
2,4,5-Trichlorophenol	U	<0.0595	<0.369	<0.0595	mg/Kg	1	0.0595	0.25	0.0403
2-Chloronaphthalene	U	<0.0392	<0.369	<0.0392	mg/Kg	1	0.0392	0.25	0.0266
1-Chloronaphthalene	U	<0.0388	<0.369	<0.0388	mg/Kg	1	0.0388	0.25	0.0263
2-Nitroaniline	U	<0.0428	<0.369	<0.0428	mg/Kg	1	0.0428	0.25	0.029
Dimethylphthalate	U	<0.0428	<0.369	<0.0428	mg/Kg	1	0.0428	0.25	0.029
Acenaphthylene	U	<0.0961	<0.369	<0.0961	mg/Kg	1	0.0961	0.25	0.0651
2,6-Dinitrotoluene	U	<0.0789	<0.369	<0.0789	mg/Kg	1	0.0789	0.25	0.0535
3-Nitroaniline	U	<0.0621	<0.369	<0.0621	mg/Kg	1	0.0621	0.25	0.0421
Acenaphthene	U	<0.110	<0.369	<0.110	mg/Kg	1	0.110	0.25	0.0745
2,4-Dinitrophenol	U	<0.127	<0.369	<0.127	mg/Kg	1	0.127	0.25	0.086
Dibenzofuran	U	<0.0404	<0.369	<0.0404	mg/Kg	1	0.0404	0.25	0.0274
Pentachlorobenzene	U	<0.0584	<0.369	<0.0584	mg/Kg	1	0.0584	0.25	0.0396
4-Nitrophenol	U	<0.249	<0.369	<0.249	mg/Kg	1	0.249	0.25	0.1686
1-Naphthylamine	U	<0.0448	<0.369	<0.0448	mg/Kg	1	0.0448	0.25	0.0304
2,4-Dinitrotoluene	U	<0.0899	<0.369	<0.0899	mg/Kg	1	0.0899	0.25	0.0609
2-Naphthylamine	U	<0.225	<0.369	<0.225	mg/Kg	1	0.225	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<0.0596	<0.369	<0.0596	mg/Kg	1	0.0596	0.25	0.0404
Fluorene	U	<0.0642	<0.369	<0.0642	mg/Kg	1	0.0642	0.25	0.0435
Diethylphthalate	U	<0.0593	<0.369	<0.0593	mg/Kg	1	0.0593	0.25	0.0402

continued ...

sample 216579 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
4-Chlorophenyl-phenylether	U	<0.0509	<0.369	<0.0509	mg/Kg	1	0.0509	0.25	0.0345
4-Nitroaniline	U	<0.0260	<0.369	<0.0260	mg/Kg	1	0.0260	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<0.487	<0.369	<0.487	mg/Kg	1	0.487	0.25	0.33
Diphenylamine	U	<0.0695	<0.369	<0.0695	mg/Kg	1	0.0695	0.25	0.0471
Diphenylhydrazine	U	<0.0946	<0.369	<0.0946	mg/Kg	1	0.0946	0.25	0.0641
4-Bromophenyl-phenylether	U	<0.0457	<0.369	<0.0457	mg/Kg	1	0.0457	0.25	0.031
Phenacetin	U	<0.0508	<0.369	<0.0508	mg/Kg	1	0.0508	0.25	0.0344
Hexachlorobenzene	U	<0.0452	<0.369	<0.0452	mg/Kg	1	0.0452	0.25	0.0306
4-Aminobiphenyl	U	<0.189	<0.369	<0.189	mg/Kg	1	0.189	0.25	0.128
Pentachlorophenol	U	<0.223	<0.369	<0.223	mg/Kg	1	0.223	0.25	0.1509
Pentachloronitrobenzene	U	<0.114	<0.369	<0.114	mg/Kg	1	0.114	0.25	0.0775
Pronamide	U	<0.0391	<0.369	<0.0391	mg/Kg	1	0.0391	0.25	0.0265
Phenanthrene	U	<0.109	<0.369	<0.109	mg/Kg	1	0.109	0.25	0.0737
Anthracene	U	<0.0558	<0.369	<0.0558	mg/Kg	1	0.0558	0.25	0.0378
Di-n-butylphthalate	U	<0.0442	<0.369	<0.0442	mg/Kg	1	0.0442	0.25	0.02997
Fluoranthene	U	<0.0510	<0.369	<0.0510	mg/Kg	1	0.0510	0.25	0.0346
Benzidine	U	<0.168	<0.369	<0.168	mg/Kg	1	0.168	0.25	0.1138
Pyrene	U	<0.222	<0.369	<0.222	mg/Kg	1	0.222	0.25	0.1507
p-Dimethylaminoazobenzene	U	<0.0440	<0.369	<0.0440	mg/Kg	1	0.0440	0.25	0.0298
Butylbenzylphthalate	U	<0.0869	<0.369	<0.0869	mg/Kg	1	0.0869	0.25	0.0589
Benzo(a)anthracene	U	<0.0662	<0.369	<0.0662	mg/Kg	1	0.0662	0.25	0.04486
3,3-Dichlorobenzidine	U	<0.238	<0.369	<0.238	mg/Kg	1	0.238	0.25	0.1616
Chrysene	U	<0.0527	<0.369	<0.0527	mg/Kg	1	0.0527	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<0.119	<0.369	<0.119	mg/Kg	1	0.119	0.25	0.0805
Di-n-octylphthalate	U	<0.0581	<0.369	<0.0581	mg/Kg	1	0.0581	0.25	0.0394
Benzo(b)fluoranthene	U	<0.0950	<0.369	<0.0950	mg/Kg	1	0.0950	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<0.0525	<0.369	<0.0525	mg/Kg	1	0.0525	0.25	0.0356
Benzo(k)fluoranthene	U	<0.0685	<0.369	<0.0685	mg/Kg	1	0.0685	0.25	0.0464
Benzo(a)pyrene	U	<0.0515	<0.369	<0.0515	mg/Kg	1	0.0515	0.25	0.03489
3-Methylcholanthrene	U	<0.109	<0.369	<0.109	mg/Kg	1	0.109	0.25	0.0741
Dibenzo(a,j)acridine	U	<0.0428	<0.369	<0.0428	mg/Kg	1	0.0428	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<0.0423	<0.369	<0.0423	mg/Kg	1	0.0423	0.25	0.0287
Dibenzo(a,h)anthracene	U	<0.0661	<0.369	<0.0661	mg/Kg	1	0.0661	0.25	0.04478
Benzo(g,h,i)perylene	U	<0.0407	<0.369	<0.0407	mg/Kg	1	0.0407	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.71	mg/Kg	1	2.67	64	8.6 - 115
Phenol-d5		1.31	mg/Kg	1	2.67	49	6.3 - 124
Nitrobenzene-d5		1.90	mg/Kg	1	2.67	71	11.3 - 116
2-Fluorobiphenyl		2.10	mg/Kg	1	2.67	79	14.6 - 122
2,4,6-Tribromophenol		2.58	mg/Kg	1	2.67	97	13.8 - 123
Terphenyl-d14		2.40	mg/Kg	1	2.67	90	30.8 - 134

Sample: 216579 - HLSF-LAGN2-SB-04-(1.5-2.0)

Laboratory: Lubbock			
Analysis: Total 8 Metals	Analytical Method: S 7471 B	Prep Method: N/A	
QC Batch: 65947	Date Analyzed: 2009-12-11	Analyzed By: TP	
Prep Batch: 56360	Sample Preparation: 2009-12-11	Prepared By: TP	
Laboratory: Lubbock			
Analysis: Total 8 Metals	Analytical Method: S 6010B	Prep Method: S 3050B	
QC Batch: 65954	Date Analyzed: 2009-12-14	Analyzed By: RR	
Prep Batch: 56340	Sample Preparation: 2009-12-11	Prepared By: KV	

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	<0.0977	<0.369	<0.0977	mg/Kg	1	0.0977	0.25	0.0662
Total Arsenic	U	<0.822	<2.95	<0.822	mg/Kg	1	0.822	2	0.557
Total Barium		39.1	39.1	<0.0803	mg/Kg	1	0.0803	1	0.0544
Total Cadmium	U	<0.0401	<0.295	<0.0401	mg/Kg	1	0.0401	0.2	0.0272
Total Chromium		4.59	4.59	<0.0859	mg/Kg	1	0.0859	0.5	0.0582
Total Mercury	U	<0.00314	<0.0369	<0.00314	mg/Kg	1	0.00314	0.025	0.00213
Total Lead	U	<0.305	<1.48	<0.305	mg/Kg	1	0.305	1	0.207
Total Selenium	U	<0.921	<2.95	<0.921	mg/Kg	1	0.921	2	0.624

Sample: 216580 - HLSF-LAGN2-SL-05-1209

Laboratory: Lubbock			
Analysis: Moisture Content	Analytical Method: ASTM D 2216-05	Prep Method: N/A	
QC Batch: 66078	Date Analyzed: 2009-12-17	Analyzed By: KV	
Prep Batch: 56485	Sample Preparation: 2009-12-17	Prepared By: KV	

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		24.8	%	1	

Sample: 216580 - HLSF-LAGN2-SL-05-1209

Laboratory: Lubbock			
Analysis: Semivolatiles WTS	Analytical Method: S 8270C	Prep Method: S 3550	
QC Batch: 66208	Date Analyzed: 2009-12-22	Analyzed By: MN	
Prep Batch: 56589	Sample Preparation: 2009-12-18	Prepared By: MN	

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Pyridine	⁶ U	<4.24	<16.6	<4.24	mg/Kg	50	4.24	0.25	0.0637
N-Nitrosodimethylamine	U	<2.04	<16.6	<2.04	mg/Kg	50	2.04	0.25	0.0307

continued ...

⁶Sample ran at a dilution due to matrix difficulties. •

sample 216580 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
2-Picoline	U	<4.64	<16.6	<4.64	mg/Kg	50	4.64	0.25	0.0698
Methyl methanesulfonate	U	<1.99	<16.6	<1.99	mg/Kg	50	1.99	0.25	0.0299
Ethyl methanesulfonate	U	<2.59	<16.6	<2.59	mg/Kg	50	2.59	0.25	0.039
Phenol	U	<4.00	<16.6	<4.00	mg/Kg	50	4.00	0.25	0.060225
Aniline	U	<2.45	<16.6	<2.45	mg/Kg	50	2.45	0.25	0.0369
bis(2-chloroethyl)ether	U	<2.71	<16.6	<2.71	mg/Kg	50	2.71	0.25	0.0407
2-Chlorophenol	U	<6.14	<16.6	<6.14	mg/Kg	50	6.14	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<1.99	<16.6	<1.99	mg/Kg	50	1.99	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<2.02	<16.6	<2.02	mg/Kg	50	2.02	0.25	0.0303
Benzyl alcohol	U	<4.11	<16.6	<4.11	mg/Kg	50	4.11	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<2.05	<16.6	<2.05	mg/Kg	50	2.05	0.25	0.0308
2-Methylphenol	U	<3.35	<16.6	<3.35	mg/Kg	50	3.35	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<1.81	<16.6	<1.81	mg/Kg	50	1.81	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<2.32	<16.6	<2.32	mg/Kg	50	2.32	0.25	0.0349
Acetophenone	U	<2.81	<16.6	<2.81	mg/Kg	50	2.81	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<3.19	<16.6	<3.19	mg/Kg	50	3.19	0.25	0.048
Hexachloroethane	U	<3.47	<16.6	<3.47	mg/Kg	50	3.47	0.25	0.0522
Nitrobenzene	U	<11.9	<16.6	<11.9	mg/Kg	50	11.9	0.25	0.1794
N-Nitrosopiperidine	U	<2.35	<16.6	<2.35	mg/Kg	50	2.35	0.25	0.0354
Isophorone	U	<5.33	<16.6	<5.33	mg/Kg	50	5.33	0.25	0.0802
2-Nitrophenol	U	<1.57	<16.6	<1.57	mg/Kg	50	1.57	0.25	0.0236
2,4-Dimethylphenol	U	<2.77	<16.6	<2.77	mg/Kg	50	2.77	0.25	0.0416
bis(2-chloroethoxy)methane	U	<3.26	<16.6	<3.26	mg/Kg	50	3.26	0.25	0.049
Benzoic acid	U	<9.14	<16.6	<9.14	mg/Kg	50	9.14	0.25	0.1374
2,4-Dichlorophenol	U	<8.62	<16.6	<8.62	mg/Kg	50	8.62	0.25	0.1297
1,2,4-Trichlorobenzene	U	<1.98	<16.6	<1.98	mg/Kg	50	1.98	0.25	0.0297
a,a-Dimethylphenethylamine	U	<3.54	<16.6	<3.54	mg/Kg	50	3.54	0.25	0.0533
Naphthalene	U	<2.44	<16.6	<2.44	mg/Kg	50	2.44	0.25	0.0367
4-Chloroaniline	U	<3.27	<16.6	<3.27	mg/Kg	50	3.27	0.25	0.0492
2,6-Dichlorophenol	U	<2.43	<16.6	<2.43	mg/Kg	50	2.43	0.25	0.0365
Hexachlorobutadiene	U	<2.42	<16.6	<2.42	mg/Kg	50	2.42	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<3.40	<16.6	<3.40	mg/Kg	50	3.40	0.25	0.0512
4-Chloro-3-methylphenol	U	<3.15	<16.6	<3.15	mg/Kg	50	3.15	0.25	0.0474
1-Methylnaphthalene	U	<2.77	<16.6	<2.77	mg/Kg	50	2.77	0.25	0.0417
2-Methylnaphthalene	U	<2.25	<16.6	<2.25	mg/Kg	50	2.25	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<2.00	<16.6	<2.00	mg/Kg	50	2.00	0.25	0.03
Hexachlorocyclopentadiene	U	<2.34	<16.6	<2.34	mg/Kg	50	2.34	0.25	0.0352
2,4,6-Trichlorophenol	U	<2.23	<16.6	<2.23	mg/Kg	50	2.23	0.25	0.0336
2,4,5-Trichlorophenol	U	<2.68	<16.6	<2.68	mg/Kg	50	2.68	0.25	0.0403
2-Chloronaphthalene	U	<1.77	<16.6	<1.77	mg/Kg	50	1.77	0.25	0.0266
1-Chloronaphthalene	U	<1.75	<16.6	<1.75	mg/Kg	50	1.75	0.25	0.0263
2-Nitroaniline	U	<1.93	<16.6	<1.93	mg/Kg	50	1.93	0.25	0.029
Dimethylphthalate	U	<1.93	<16.6	<1.93	mg/Kg	50	1.93	0.25	0.029
Acenaphthylene	U	<4.33	<16.6	<4.33	mg/Kg	50	4.33	0.25	0.0651
2,6-Dinitrotoluene	U	<3.56	<16.6	<3.56	mg/Kg	50	3.56	0.25	0.0535

continued ...

sample 216580 continued ...

Parameter	Flag	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
3-Nitroaniline	U	<2.80	<16.6	<2.80	mg/Kg	50	2.80	0.25	0.0421
Acenaphthene	U	<4.95	<16.6	<4.95	mg/Kg	50	4.95	0.25	0.0745
2,4-Dinitrophenol	U	<5.72	<16.6	<5.72	mg/Kg	50	5.72	0.25	0.086
Dibenzofuran	U	<1.82	<16.6	<1.82	mg/Kg	50	1.82	0.25	0.0274
Pentachlorobenzene	U	<2.63	<16.6	<2.63	mg/Kg	50	2.63	0.25	0.0396
4-Nitrophenol	U	<11.2	<16.6	<11.2	mg/Kg	50	11.2	0.25	0.1686
1-Naphthylamine	U	<2.02	<16.6	<2.02	mg/Kg	50	2.02	0.25	0.0304
2,4-Dinitrotoluene	U	<4.05	<16.6	<4.05	mg/Kg	50	4.05	0.25	0.0609
2-Naphthylamine	U	<10.2	<16.6	<10.2	mg/Kg	50	10.2	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<2.69	<16.6	<2.69	mg/Kg	50	2.69	0.25	0.0404
Fluorene	U	<2.89	<16.6	<2.89	mg/Kg	50	2.89	0.25	0.0435
Diethylphthalate	U	<2.67	<16.6	<2.67	mg/Kg	50	2.67	0.25	0.0402
4-Chlorophenyl-phenylether	U	<2.29	<16.6	<2.29	mg/Kg	50	2.29	0.25	0.0345
4-Nitroaniline	U	<1.17	<16.6	<1.17	mg/Kg	50	1.17	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<21.9	<16.6	<21.9	mg/Kg	50	21.9	0.25	0.33
Diphenylamine	U	<3.13	<16.6	<3.13	mg/Kg	50	3.13	0.25	0.0471
Diphenylhydrazine	U	<4.26	<16.6	<4.26	mg/Kg	50	4.26	0.25	0.0641
4-Bromophenyl-phenylether	U	<2.06	<16.6	<2.06	mg/Kg	50	2.06	0.25	0.031
Phenacetin	U	<2.29	<16.6	<2.29	mg/Kg	50	2.29	0.25	0.0344
Hexachlorobenzene	U	<2.04	<16.6	<2.04	mg/Kg	50	2.04	0.25	0.0306
4-Aminobiphenyl	U	<8.51	<16.6	<8.51	mg/Kg	50	8.51	0.25	0.128
Pentachlorophenol	U	<10.0	<16.6	<10.0	mg/Kg	50	10.0	0.25	0.1509
Pentachloronitrobenzene	U	<5.15	<16.6	<5.15	mg/Kg	50	5.15	0.25	0.0775
Pronamide	U	<1.76	<16.6	<1.76	mg/Kg	50	1.76	0.25	0.0265
Phenanthrene	U	<4.90	<16.6	<4.90	mg/Kg	50	4.90	0.25	0.0737
Anthracene	U	<2.51	<16.6	<2.51	mg/Kg	50	2.51	0.25	0.0378
Di-n-butylphthalate	U	<1.99	<16.6	<1.99	mg/Kg	50	1.99	0.25	0.02997
Fluoranthene	U	<2.30	<16.6	<2.30	mg/Kg	50	2.30	0.25	0.0346
Benzidine	U	<7.57	<16.6	<7.57	mg/Kg	50	7.57	0.25	0.1138
Pyrene	U	<10.0	<16.6	<10.0	mg/Kg	50	10.0	0.25	0.1507
p-Dimethylaminoazobenzene	U	<1.98	<16.6	<1.98	mg/Kg	50	1.98	0.25	0.0298
Butylbenzylphthalate	U	<3.92	<16.6	<3.92	mg/Kg	50	3.92	0.25	0.0589
Benzo(a)anthracene	U	<2.98	<16.6	<2.98	mg/Kg	50	2.98	0.25	0.04486
3,3-Dichlorobenzidine	U	<10.7	<16.6	<10.7	mg/Kg	50	10.7	0.25	0.1616
Chrysene	U	<2.37	<16.6	<2.37	mg/Kg	50	2.37	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<5.35	<16.6	<5.35	mg/Kg	50	5.35	0.25	0.0805
Di-n-octylphthalate	U	<2.62	<16.6	<2.62	mg/Kg	50	2.62	0.25	0.0394
Benzo(b)fluoranthene	U	<4.28	<16.6	<4.28	mg/Kg	50	4.28	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<2.37	<16.6	<2.37	mg/Kg	50	2.37	0.25	0.0356
Benzo(k)fluoranthene	U	<3.08	<16.6	<3.08	mg/Kg	50	3.08	0.25	0.0464
Benzo(a)pyrene	U	<2.32	<16.6	<2.32	mg/Kg	50	2.32	0.25	0.03489
3-Methylcholanthrene	U	<4.93	<16.6	<4.93	mg/Kg	50	4.93	0.25	0.0741
Dibenzo(a,j)acridine	U	<1.93	<16.6	<1.93	mg/Kg	50	1.93	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<1.91	<16.6	<1.91	mg/Kg	50	1.91	0.25	0.0287
Dibenzo(a,h)anthracene	U	<2.98	<16.6	<2.98	mg/Kg	50	2.98	0.25	0.04478

continued ...

sample 216580 continued . . .

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzo(g,h,i)perylene	U	<1.84	<16.6	<1.84	mg/Kg	50	1.84	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.330	mg/Kg	50	2.67	12 D	8.6 - 115
Phenol-d5		0.350	mg/Kg	50	2.67	13 D	6.3 - 124
Nitrobenzene-d5		0.890	mg/Kg	50	2.67	33 D	11.3 - 116
2-Fluorobiphenyl		2.64	mg/Kg	50	2.67	99 D	14.6 - 122
2,4,6-Tribromophenol	7	0.00	mg/Kg	50	2.67	0 D	13.8 - 123
Terphenyl-d14		2.49	mg/Kg	50	2.67	93 D	30.8 - 134

Sample: 216580 - HLSF-LAGN2-SL-05-1209

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 65947 Date Analyzed: 2009-12-11 Analyzed By: TP
 Prep Batch: 56360 Sample Preparation: 2009-12-11 Prepared By: TP
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010B Prep Method: S 3050B
 QC Batch: 65954 Date Analyzed: 2009-12-14 Analyzed By: RR
 Prep Batch: 56340 Sample Preparation: 2009-12-11 Prepared By: KV

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Silver	U	<0.0880	<0.332	<0.0880	mg/Kg	1	0.0880	0.25	0.0662
Total Arsenic	U	<0.741	<2.66	<0.741	mg/Kg	1	0.741	2	0.557
Total Barium		50.8	50.8	<0.0724	mg/Kg	1	0.0724	1	0.0544
Total Cadmium	U	<0.0362	<0.266	<0.0362	mg/Kg	1	0.0362	0.2	0.0272
Total Chromium		3.10	3.10	<0.0774	mg/Kg	1	0.0774	0.5	0.0582
Total Mercury		0.0527	0.0527	<0.00283	mg/Kg	1	0.00283	0.025	0.00213
Total Lead	U	<0.275	<1.33	<0.275	mg/Kg	1	0.275	1	0.207
Total Selenium	U	<0.830	<2.66	<0.830	mg/Kg	1	0.830	2	0.624

Sample: 216581 - HLSF-LAGN2-SB-05-(0.3-0.9)

Laboratory: Lubbock
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 66079 Date Analyzed: 2009-12-17 Analyzed By: KV
 Prep Batch: 56487 Sample Preparation: 2009-12-16 Prepared By: KV

⁷8270 Only - One acidic surrogate is out of control limits. The other two acidic surrogates show extraction was performed properly.

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		11.6	%	1	

Sample: 216581 - HLSF-LAGN2-SB-05-(0.3-0.9)

Laboratory: Lubbock
 Analysis: Semivolatiles WTS Analytical Method: S 8270C Prep Method: S 3550
 QC Batch: 66208 Date Analyzed: 2009-12-22 Analyzed By: MN
 Prep Batch: 56589 Sample Preparation: 2009-12-18 Prepared By: MN

Parameter	Flag	SDL		MQL		Method		SDL	MQL (Unadjusted)	MDL (Unadjusted)
		Based Result	Based Result	Blank Result	Blank Result	Units	Dilution			
Pyridine	U	<0.0720	<0.283	<0.0720	<0.0720	mg/Kg	1	0.0720	0.25	0.0637
N-Nitrosodimethylamine	U	<0.0347	<0.283	<0.0347	<0.0347	mg/Kg	1	0.0347	0.25	0.0307
2-Picoline	U	<0.0790	<0.283	<0.0790	<0.0790	mg/Kg	1	0.0790	0.25	0.0698
Methyl methanesulfonate	U	<0.0338	<0.283	<0.0338	<0.0338	mg/Kg	1	0.0338	0.25	0.0299
Ethyl methanesulfonate	U	<0.0441	<0.283	<0.0441	<0.0441	mg/Kg	1	0.0441	0.25	0.039
Phenol	U	<0.0681	<0.283	<0.0681	<0.0681	mg/Kg	1	0.0681	0.25	0.060225
Aniline	U	<0.0417	<0.283	<0.0417	<0.0417	mg/Kg	1	0.0417	0.25	0.0369
bis(2-chloroethyl)ether	U	<0.0460	<0.283	<0.0460	<0.0460	mg/Kg	1	0.0460	0.25	0.0407
2-Chlorophenol	U	<0.104	<0.283	<0.104	<0.104	mg/Kg	1	0.104	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<0.0338	<0.283	<0.0338	<0.0338	mg/Kg	1	0.0338	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<0.0343	<0.283	<0.0343	<0.0343	mg/Kg	1	0.0343	0.25	0.0303
Benzyl alcohol	U	<0.0699	<0.283	<0.0699	<0.0699	mg/Kg	1	0.0699	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<0.0348	<0.283	<0.0348	<0.0348	mg/Kg	1	0.0348	0.25	0.0308
2-Methylphenol	U	<0.0570	<0.283	<0.0570	<0.0570	mg/Kg	1	0.0570	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<0.0308	<0.283	<0.0308	<0.0308	mg/Kg	1	0.0308	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<0.0395	<0.283	<0.0395	<0.0395	mg/Kg	1	0.0395	0.25	0.0349
Acetophenone	U	<0.0477	<0.283	<0.0477	<0.0477	mg/Kg	1	0.0477	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<0.0543	<0.283	<0.0543	<0.0543	mg/Kg	1	0.0543	0.25	0.048
Hexachloroethane	U	<0.0590	<0.283	<0.0590	<0.0590	mg/Kg	1	0.0590	0.25	0.0522
Nitrobenzene	U	<0.203	<0.283	<0.203	<0.203	mg/Kg	1	0.203	0.25	0.1794
N-Nitrosopiperidine	U	<0.0400	<0.283	<0.0400	<0.0400	mg/Kg	1	0.0400	0.25	0.0354
Isophorone	U	<0.0907	<0.283	<0.0907	<0.0907	mg/Kg	1	0.0907	0.25	0.0802
2-Nitrophenol	U	<0.0267	<0.283	<0.0267	<0.0267	mg/Kg	1	0.0267	0.25	0.0236
2,4-Dimethylphenol	U	<0.0470	<0.283	<0.0470	<0.0470	mg/Kg	1	0.0470	0.25	0.0416
bis(2-chloroethoxy)methane	U	<0.0554	<0.283	<0.0554	<0.0554	mg/Kg	1	0.0554	0.25	0.049
Benzoic acid	U	<0.155	<0.283	<0.155	<0.155	mg/Kg	1	0.155	0.25	0.1374
2,4-Dichlorophenol	U	<0.147	<0.283	<0.147	<0.147	mg/Kg	1	0.147	0.25	0.1297
1,2,4-Trichlorobenzene	U	<0.0336	<0.283	<0.0336	<0.0336	mg/Kg	1	0.0336	0.25	0.0297
a,a-Dimethylphenethylamine	U	<0.0603	<0.283	<0.0603	<0.0603	mg/Kg	1	0.0603	0.25	0.0533
Naphthalene	U	<0.0415	<0.283	<0.0415	<0.0415	mg/Kg	1	0.0415	0.25	0.0367
4-Chloroaniline	U	<0.0556	<0.283	<0.0556	<0.0556	mg/Kg	1	0.0556	0.25	0.0492
2,6-Dichlorophenol	U	<0.0413	<0.283	<0.0413	<0.0413	mg/Kg	1	0.0413	0.25	0.0365
Hexachlorobutadiene	U	<0.0412	<0.283	<0.0412	<0.0412	mg/Kg	1	0.0412	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<0.0579	<0.283	<0.0579	<0.0579	mg/Kg	1	0.0579	0.25	0.0512

continued ...

sample 216581 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
4-Chloro-3-methylphenol	U	<0.0536	<0.283	<0.0536	mg/Kg	1	0.0536	0.25	0.0474
1-Methylnaphthalene	U	<0.0472	<0.283	<0.0472	mg/Kg	1	0.0472	0.25	0.0417
2-Methylnaphthalene	U	<0.0383	<0.283	<0.0383	mg/Kg	1	0.0383	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<0.0339	<0.283	<0.0339	mg/Kg	1	0.0339	0.25	0.03
Hexachlorocyclopentadiene	U	<0.0398	<0.283	<0.0398	mg/Kg	1	0.0398	0.25	0.0352
2,4,6-Trichlorophenol	U	<0.0380	<0.283	<0.0380	mg/Kg	1	0.0380	0.25	0.0336
2,4,5-Trichlorophenol	U	<0.0456	<0.283	<0.0456	mg/Kg	1	0.0456	0.25	0.0403
2-Chloronaphthalene	U	<0.0301	<0.283	<0.0301	mg/Kg	1	0.0301	0.25	0.0266
1-Chloronaphthalene	U	<0.0298	<0.283	<0.0298	mg/Kg	1	0.0298	0.25	0.0263
2-Nitroaniline	U	<0.0328	<0.283	<0.0328	mg/Kg	1	0.0328	0.25	0.029
Dimethylphthalate	U	<0.0328	<0.283	<0.0328	mg/Kg	1	0.0328	0.25	0.029
Acenaphthylene	U	<0.0736	<0.283	<0.0736	mg/Kg	1	0.0736	0.25	0.0651
2,6-Dinitrotoluene	U	<0.0605	<0.283	<0.0605	mg/Kg	1	0.0605	0.25	0.0535
3-Nitroaniline	U	<0.0476	<0.283	<0.0476	mg/Kg	1	0.0476	0.25	0.0421
Acenaphthene	U	<0.0843	<0.283	<0.0843	mg/Kg	1	0.0843	0.25	0.0745
2,4-Dinitrophenol	U	<0.0973	<0.283	<0.0973	mg/Kg	1	0.0973	0.25	0.086
Dibenzofuran	U	<0.0310	<0.283	<0.0310	mg/Kg	1	0.0310	0.25	0.0274
Pentachlorobenzene	U	<0.0448	<0.283	<0.0448	mg/Kg	1	0.0448	0.25	0.0396
4-Nitrophenol	U	<0.191	<0.283	<0.191	mg/Kg	1	0.191	0.25	0.1686
1-Naphthylamine	U	<0.0344	<0.283	<0.0344	mg/Kg	1	0.0344	0.25	0.0304
2,4-Dinitrotoluene	U	<0.0689	<0.283	<0.0689	mg/Kg	1	0.0689	0.25	0.0609
2-Naphthylamine	U	<0.173	<0.283	<0.173	mg/Kg	1	0.173	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<0.0457	<0.283	<0.0457	mg/Kg	1	0.0457	0.25	0.0404
Fluorene	U	<0.0492	<0.283	<0.0492	mg/Kg	1	0.0492	0.25	0.0435
Diethylphthalate	U	<0.0455	<0.283	<0.0455	mg/Kg	1	0.0455	0.25	0.0402
4-Chlorophenyl-phenylether	U	<0.0390	<0.283	<0.0390	mg/Kg	1	0.0390	0.25	0.0345
4-Nitroaniline	U	<0.0199	<0.283	<0.0199	mg/Kg	1	0.0199	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<0.373	<0.283	<0.373	mg/Kg	1	0.373	0.25	0.33
Diphenylamine	U	<0.0533	<0.283	<0.0533	mg/Kg	1	0.0533	0.25	0.0471
Diphenylhydrazine	U	<0.0725	<0.283	<0.0725	mg/Kg	1	0.0725	0.25	0.0641
4-Bromophenyl-phenylether	U	<0.0351	<0.283	<0.0351	mg/Kg	1	0.0351	0.25	0.031
Phenacetin	U	<0.0389	<0.283	<0.0389	mg/Kg	1	0.0389	0.25	0.0344
Hexachlorobenzene	U	<0.0346	<0.283	<0.0346	mg/Kg	1	0.0346	0.25	0.0306
4-Aminobiphenyl	U	<0.145	<0.283	<0.145	mg/Kg	1	0.145	0.25	0.128
Pentachlorophenol	U	<0.171	<0.283	<0.171	mg/Kg	1	0.171	0.25	0.1509
Pentachloronitrobenzene	U	<0.0877	<0.283	<0.0877	mg/Kg	1	0.0877	0.25	0.0775
Pronamide	U	<0.0300	<0.283	<0.0300	mg/Kg	1	0.0300	0.25	0.0265
Phenanthrene	U	<0.0834	<0.283	<0.0834	mg/Kg	1	0.0834	0.25	0.0737
Anthracene	U	<0.0428	<0.283	<0.0428	mg/Kg	1	0.0428	0.25	0.0378
Di-n-butylphthalate	U	<0.0339	<0.283	<0.0339	mg/Kg	1	0.0339	0.25	0.02997
Fluoranthene	U	<0.0391	<0.283	<0.0391	mg/Kg	1	0.0391	0.25	0.0346
Benzidine	U	<0.129	<0.283	<0.129	mg/Kg	1	0.129	0.25	0.1138
Pyrene	U	<0.170	<0.283	<0.170	mg/Kg	1	0.170	0.25	0.1507
p-Dimethylaminoazobenzene	U	<0.0337	<0.283	<0.0337	mg/Kg	1	0.0337	0.25	0.0298
Butylbenzylphthalate	U	<0.0666	<0.283	<0.0666	mg/Kg	1	0.0666	0.25	0.0589

continued ...

sample 216581 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzo(a)anthracene	U	<0.0507	<0.283	<0.0507	mg/Kg	1	0.0507	0.25	0.04486
3,3-Dichlorobenzidine	U	<0.183	<0.283	<0.183	mg/Kg	1	0.183	0.25	0.1616
Chrysene	U	<0.0404	<0.283	<0.0404	mg/Kg	1	0.0404	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<0.0911	<0.283	<0.0911	mg/Kg	1	0.0911	0.25	0.0805
Di-n-octylphthalate	U	<0.0446	<0.283	<0.0446	mg/Kg	1	0.0446	0.25	0.0394
Benzo(b)fluoranthene	U	<0.0728	<0.283	<0.0728	mg/Kg	1	0.0728	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<0.0403	<0.283	<0.0403	mg/Kg	1	0.0403	0.25	0.0356
Benzo(k)fluoranthene	U	<0.0525	<0.283	<0.0525	mg/Kg	1	0.0525	0.25	0.0464
Benzo(a)pyrene	U	<0.0395	<0.283	<0.0395	mg/Kg	1	0.0395	0.25	0.03489
3-Methylcholanthrene	U	<0.0838	<0.283	<0.0838	mg/Kg	1	0.0838	0.25	0.0741
Dibenzo(a,i)acridine	U	<0.0328	<0.283	<0.0328	mg/Kg	1	0.0328	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<0.0325	<0.283	<0.0325	mg/Kg	1	0.0325	0.25	0.0287
Dibenzo(a,h)anthracene	U	<0.0506	<0.283	<0.0506	mg/Kg	1	0.0506	0.25	0.04478
Benzo(g,h,i)perylene	U	<0.0312	<0.283	<0.0312	mg/Kg	1	0.0312	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.61	mg/Kg	1	2.67	60	8.6 - 115
Phenol-d5		1.20	mg/Kg	1	2.67	45	6.3 - 124
Nitrobenzene-d5		1.67	mg/Kg	1	2.67	62	11.3 - 116
2-Fluorobiphenyl		1.87	mg/Kg	1	2.67	70	14.6 - 122
2,4,6-Tribromophenol		2.47	mg/Kg	1	2.67	92	13.8 - 123
Terphenyl-d14		2.44	mg/Kg	1	2.67	91	30.8 - 134

Sample: 216581 - HLSF-LAGN2-SB-05-(0.3-0.9)

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 65947 Date Analyzed: 2009-12-11 Analyzed By: TP
 Prep Batch: 56360 Sample Preparation: 2009-12-11 Prepared By: TP
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010B Prep Method: S 3050B
 QC Batch: 65954 Date Analyzed: 2009-12-14 Analyzed By: RR
 Prep Batch: 56340 Sample Preparation: 2009-12-11 Prepared By: KV

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Silver	U	<0.0749	<0.283	<0.0749	mg/Kg	1	0.0749	0.25	0.0662
Total Arsenic	U	<0.630	<2.26	<0.630	mg/Kg	1	0.630	2	0.557
Total Barium		29.6	29.6	<0.0615	mg/Kg	1	0.0615	1	0.0544
Total Cadmium	U	<0.0308	<0.226	<0.0308	mg/Kg	1	0.0308	0.2	0.0272
Total Chromium		2.83	2.83	<0.0658	mg/Kg	1	0.0658	0.5	0.0582
Total Mercury	U	<0.00241	<0.0283	<0.00241	mg/Kg	1	0.00241	0.025	0.00213

continued ...

sample 216581 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Lead	U	<0.234	<1.13	<0.234	mg/Kg	1	0.234	1	0.207
Total Selenium	U	<0.706	<2.26	<0.706	mg/Kg	1	0.706	2	0.624

Sample: 216582 - HLSF-LAGN2-SL-02-1209

Laboratory: Lubbock
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 66078 Date Analyzed: 2009-12-17 Analyzed By: KV
 Prep Batch: 56485 Sample Preparation: 2009-12-17 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		26.6	%	1	

Sample: 216582 - HLSF-LAGN2-SL-02-1209

Laboratory: Lubbock
 Analysis: Semivolatiles WTS Analytical Method: S 8270C Prep Method: S 3550
 QC Batch: 66208 Date Analyzed: 2009-12-22 Analyzed By: MN
 Prep Batch: 56589 Sample Preparation: 2009-12-18 Prepared By: MN

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Pyridine	⁸ U J	<4.34	<17.0	<4.34	mg/Kg	50	4.34	0.25	0.0637
N-Nitrosodimethylamine	U	<2.09	<17.0	<2.09	mg/Kg	50	2.09	0.25	0.0307
2-Picoline	U	<4.75	<17.0	<4.75	mg/Kg	50	4.75	0.25	0.0698
Methyl methanesulfonate	U	<2.04	<17.0	<2.04	mg/Kg	50	2.04	0.25	0.0299
Ethyl methanesulfonate	U	<2.66	<17.0	<2.66	mg/Kg	50	2.66	0.25	0.039
Phenol	U	<4.10	<17.0	<4.10	mg/Kg	50	4.10	0.25	0.060225
Aniline	U	<2.51	<17.0	<2.51	mg/Kg	50	2.51	0.25	0.0369
bis(2-chloroethyl)ether	U	<2.77	<17.0	<2.77	mg/Kg	50	2.77	0.25	0.0407
2-Chlorophenol	U	<6.28	<17.0	<6.28	mg/Kg	50	6.28	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<2.04	<17.0	<2.04	mg/Kg	50	2.04	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<2.06	<17.0	<2.06	mg/Kg	50	2.06	0.25	0.0303
Benzyl alcohol	U	<4.21	<17.0	<4.21	mg/Kg	50	4.21	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<2.10	<17.0	<2.10	mg/Kg	50	2.10	0.25	0.0308
2-Methylphenol	U	<3.43	<17.0	<3.43	mg/Kg	50	3.43	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<1.85	<17.0	<1.85	mg/Kg	50	1.85	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<2.38	<17.0	<2.38	mg/Kg	50	2.38	0.25	0.0349
Acetophenone	U J	<2.87	<17.0	<2.87	mg/Kg	50	2.87	0.25	0.0422

continued ...

⁸Sample ran at a dilution due to matrix difficulties. •

sample 216582 continued ...

Parameter	Flag	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
N-Nitrosodi-n-propylamine	U	<3.27	<17.0	<3.27	mg/Kg	50	3.27	0.25	0.048
Hexachloroethane	U	<3.55	<17.0	<3.55	mg/Kg	50	3.55	0.25	0.0522
Nitrobenzene	U	<12.2	<17.0	<12.2	mg/Kg	50	12.2	0.25	0.1794
N-Nitrosopiperidine	U	<2.41	<17.0	<2.41	mg/Kg	50	2.41	0.25	0.0354
Isophorone	U	<5.46	<17.0	<5.46	mg/Kg	50	5.46	0.25	0.0802
2-Nitrophenol	U	<1.61	<17.0	<1.61	mg/Kg	50	1.61	0.25	0.0236
2,4-Dimethylphenol	U	<2.83	<17.0	<2.83	mg/Kg	50	2.83	0.25	0.0416
bis(2-chloroethoxy)methane	U	<3.34	<17.0	<3.34	mg/Kg	50	3.34	0.25	0.049
Benzoic acid	U	<9.36	<17.0	<9.36	mg/Kg	50	9.36	0.25	0.1374
2,4-Dichlorophenol	U	<8.83	<17.0	<8.83	mg/Kg	50	8.83	0.25	0.1297
1,2,4-Trichlorobenzene	U	<2.02	<17.0	<2.02	mg/Kg	50	2.02	0.25	0.0297
a,a-Dimethylphenethylamine	U	<3.63	<17.0	<3.63	mg/Kg	50	3.63	0.25	0.0533
Naphthalene	U	<2.50	<17.0	<2.50	mg/Kg	50	2.50	0.25	0.0367
4-Chloroaniline	U	<3.35	<17.0	<3.35	mg/Kg	50	3.35	0.25	0.0492
2,6-Dichlorophenol	U	<2.48	<17.0	<2.48	mg/Kg	50	2.48	0.25	0.0365
Hexachlorobutadiene	U	<2.48	<17.0	<2.48	mg/Kg	50	2.48	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<3.49	<17.0	<3.49	mg/Kg	50	3.49	0.25	0.0512
4-Chloro-3-methylphenol	U	<3.23	<17.0	<3.23	mg/Kg	50	3.23	0.25	0.0474
1-Methylnaphthalene	U	<2.84	<17.0	<2.84	mg/Kg	50	2.84	0.25	0.0417
2-Methylnaphthalene	U	<2.30	<17.0	<2.30	mg/Kg	50	2.30	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<2.04	<17.0	<2.04	mg/Kg	50	2.04	0.25	0.03
Hexachlorocyclopentadiene	U	<2.40	<17.0	<2.40	mg/Kg	50	2.40	0.25	0.0352
2,4,6-Trichlorophenol	U	<2.29	<17.0	<2.29	mg/Kg	50	2.29	0.25	0.0336
2,4,5-Trichlorophenol	U	<2.74	<17.0	<2.74	mg/Kg	50	2.74	0.25	0.0403
2-Chloronaphthalene	U	<1.81	<17.0	<1.81	mg/Kg	50	1.81	0.25	0.0266
1-Chloronaphthalene	U	<1.79	<17.0	<1.79	mg/Kg	50	1.79	0.25	0.0263
2-Nitroaniline	U	<1.97	<17.0	<1.97	mg/Kg	50	1.97	0.25	0.029
Dimethylphthalate	U	<1.97	<17.0	<1.97	mg/Kg	50	1.97	0.25	0.029
Acenaphthylene	U	<4.43	<17.0	<4.43	mg/Kg	50	4.43	0.25	0.0651
2,6-Dinitrotoluene	U	<3.64	<17.0	<3.64	mg/Kg	50	3.64	0.25	0.0535
3-Nitroaniline	U	<2.87	<17.0	<2.87	mg/Kg	50	2.87	0.25	0.0421
Acenaphthene	U	<5.07	<17.0	<5.07	mg/Kg	50	5.07	0.25	0.0745
2,4-Dinitrophenol	U	<5.86	<17.0	<5.86	mg/Kg	50	5.86	0.25	0.086
Dibenzofuran	U	<1.86	<17.0	<1.86	mg/Kg	50	1.86	0.25	0.0274
Pentachlorobenzene	U	<2.70	<17.0	<2.70	mg/Kg	50	2.70	0.25	0.0396
4-Nitrophenol	U	<11.5	<17.0	<11.5	mg/Kg	50	11.5	0.25	0.1686
1-Naphthylamine	U	<2.07	<17.0	<2.07	mg/Kg	50	2.07	0.25	0.0304
2,4-Dinitrotoluene	U	<4.15	<17.0	<4.15	mg/Kg	50	4.15	0.25	0.0609
2-Naphthylamine	U	<10.4	<17.0	<10.4	mg/Kg	50	10.4	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<2.75	<17.0	<2.75	mg/Kg	50	2.75	0.25	0.0404
Fluorene	U	<2.96	<17.0	<2.96	mg/Kg	50	2.96	0.25	0.0435
Diethylphthalate	U	<2.74	<17.0	<2.74	mg/Kg	50	2.74	0.25	0.0402
4-Chlorophenyl-phenylether	U	<2.35	<17.0	<2.35	mg/Kg	50	2.35	0.25	0.0345
4-Nitroaniline	U	<1.20	<17.0	<1.20	mg/Kg	50	1.20	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<22.5	<17.0	<22.5	mg/Kg	50	22.5	0.25	0.33

continued ...

sample 216582 continued ...

Parameter	Flag	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Diphenylamine	U J	<3.21	<17.0	<3.21	mg/Kg	50	3.21	0.25	0.0471
Diphenylhydrazine	U	<4.36	<17.0	<4.36	mg/Kg	50	4.36	0.25	0.0641
4-Bromophenyl-phenylether	U	<2.11	<17.0	<2.11	mg/Kg	50	2.11	0.25	0.031
Phenacetin	U	<2.34	<17.0	<2.34	mg/Kg	50	2.34	0.25	0.0344
Hexachlorobenzene	U	<2.08	<17.0	<2.08	mg/Kg	50	2.08	0.25	0.0306
4-Aminobiphenyl	U	<8.72	<17.0	<8.72	mg/Kg	50	8.72	0.25	0.128
Pentachlorophenol	U	<10.3	<17.0	<10.3	mg/Kg	50	10.3	0.25	0.1509
Pentachloronitrobenzene	U	<5.28	<17.0	<5.28	mg/Kg	50	5.28	0.25	0.0775
Pronamide	U	<1.80	<17.0	<1.80	mg/Kg	50	1.80	0.25	0.0265
Phenanthrene	U	<5.02	<17.0	<5.02	mg/Kg	50	5.02	0.25	0.0737
Anthracene	U	<2.57	<17.0	<2.57	mg/Kg	50	2.57	0.25	0.0378
Di-n-butylphthalate	U	<2.04	<17.0	<2.04	mg/Kg	50	2.04	0.25	0.02997
Fluoranthene	U	<2.36	<17.0	<2.36	mg/Kg	50	2.36	0.25	0.0346
Benzidine	U	<7.75	<17.0	<7.75	mg/Kg	50	7.75	0.25	0.1138
Pyrene	U	<10.3	<17.0	<10.3	mg/Kg	50	10.3	0.25	0.1507
p-Dimethylaminoazobenzene	U	<2.03	<17.0	<2.03	mg/Kg	50	2.03	0.25	0.0298
Butylbenzylphthalate	U	<4.01	<17.0	<4.01	mg/Kg	50	4.01	0.25	0.0589
Benzo(a)anthracene	U	<3.06	<17.0	<3.06	mg/Kg	50	3.06	0.25	0.04486
3,3-Dichlorobenzidine	U	<11.0	<17.0	<11.0	mg/Kg	50	11.0	0.25	0.1616
Chrysene	U	<2.43	<17.0	<2.43	mg/Kg	50	2.43	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<5.48	<17.0	<5.48	mg/Kg	50	5.48	0.25	0.0805
Di-n-octylphthalate	U	<2.68	<17.0	<2.68	mg/Kg	50	2.68	0.25	0.0394
Benzo(b)fluoranthene	U	<4.38	<17.0	<4.38	mg/Kg	50	4.38	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<2.42	<17.0	<2.42	mg/Kg	50	2.42	0.25	0.0356
Benzo(k)fluoranthene	U	<3.16	<17.0	<3.16	mg/Kg	50	3.16	0.25	0.0464
Benzo(a)pyrene	U	<2.38	<17.0	<2.38	mg/Kg	50	2.38	0.25	0.03489
3-Methylcholanthrene	U	<5.05	<17.0	<5.05	mg/Kg	50	5.05	0.25	0.0741
Dibenzo(a,j)acridine	U	<1.97	<17.0	<1.97	mg/Kg	50	1.97	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<1.95	<17.0	<1.95	mg/Kg	50	1.95	0.25	0.0287
Dibenzo(a,h)anthracene	U J	<3.05	<17.0	<3.05	mg/Kg	50	3.05	0.25	0.04478
Benzo(g,h,i)perylene	U J	<1.88	<17.0	<1.88	mg/Kg	50	1.88	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	9	0.0800	mg/Kg	50	2.67	3 D	8.6 - 115
Phenol-d5	10	0.140	mg/Kg	50	2.67	5 D	6.3 - 124
Nitrobenzene-d5		0.910	mg/Kg	50	2.67	34 D	11.3 - 116
2-Fluorobiphenyl		1.79	mg/Kg	50	2.67	67 D	14.6 - 122
2,4,6-Tribromophenol	11	0.00	mg/Kg	50	2.67	0 D	13.8 - 123
Terphenyl-d14		1.99	mg/Kg	50	2.67	74 D	30.8 - 134

⁹Surrogateout due to matrix interference.

¹⁰Surrogateout due to matrix interference.

¹¹Surrogateout due to matrix interference.

Sample: 216582 - HLSF-LAGN2-SL-02-1209

Laboratory: Lubbock			
Analysis: Total 8 Metals	Analytical Method: S 7471 B	Prep Method: N/A	
QC Batch: 65947	Date Analyzed: 2009-12-11	Analyzed By: TP	
Prep Batch: 56360	Sample Preparation: 2009-12-11	Prepared By: TP	
Laboratory: Lubbock			
Analysis: Total 8 Metals	Analytical Method: S 6010B	Prep Method: S 3050B	
QC Batch: 65954	Date Analyzed: 2009-12-14	Analyzed By: RR	
Prep Batch: 56340	Sample Preparation: 2009-12-11	Prepared By: KV	

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Silver	U	<0.0902	<0.340	<0.0902	mg/Kg	1	0.0902	0.25	0.0662
Total Arsenic	U	<0.759	<2.72	<0.759	mg/Kg	1	0.759	2	0.557
Total Barium		66.0	66.0	<0.0741	mg/Kg	1	0.0741	1	0.0544
Total Cadmium	U	<0.0370	<0.272	<0.0370	mg/Kg	1	0.0370	0.2	0.0272
Total Chromium		4.62	4.62	<0.0793	mg/Kg	1	0.0793	0.5	0.0582
Total Mercury		0.0684	0.0684	<0.00290	mg/Kg	1	0.00290	0.025	0.00213
Total Lead	U	<0.282	<1.36	<0.282	mg/Kg	1	0.282	1	0.207
Total Selenium	U	<0.850	<2.72	<0.850	mg/Kg	1	0.850	2	0.624

Sample: 216583 - HLSF-LAGN2-SB-02-(1.5-2.0)

Laboratory: Lubbock			
Analysis: Moisture Content	Analytical Method: ASTM D 2216-05	Prep Method: N/A	
QC Batch: 66078	Date Analyzed: 2009-12-17	Analyzed By: KV	
Prep Batch: 56485	Sample Preparation: 2009-12-17	Prepared By: KV	

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		24.3	%	1	

Sample: 216583 - HLSF-LAGN2-SB-02-(1.5-2.0)

Laboratory: Lubbock			
Analysis: Semivolatiles WTS	Analytical Method: S 8270C	Prep Method: S 3550	
QC Batch: 66208	Date Analyzed: 2009-12-22	Analyzed By: MN	
Prep Batch: 56589	Sample Preparation: 2009-12-18	Prepared By: MN	

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Pyridine	U	<0.0842	<0.330	<0.0842	mg/Kg	1	0.0842	0.25	0.0637
N-Nitrosodimethylamine	U	<0.0406	<0.330	<0.0406	mg/Kg	1	0.0406	0.25	0.0307
2-Picoline	U	<0.0922	<0.330	<0.0922	mg/Kg	1	0.0922	0.25	0.0698
Methyl methanesulfonate	U	<0.0395	<0.330	<0.0395	mg/Kg	1	0.0395	0.25	0.0299

continued ...

sample 216583 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Ethyl methanesulfonate	U	<0.0515	<0.330	<0.0515	mg/Kg	1	0.0515	0.25	0.039
Phenol	U	<0.0796	<0.330	<0.0796	mg/Kg	1	0.0796	0.25	0.060225
Aniline	U	<0.0488	<0.330	<0.0488	mg/Kg	1	0.0488	0.25	0.0369
bis(2-chloroethyl)ether	U	<0.0538	<0.330	<0.0538	mg/Kg	1	0.0538	0.25	0.0407
2-Chlorophenol	U	<0.122	<0.330	<0.122	mg/Kg	1	0.122	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<0.0395	<0.330	<0.0395	mg/Kg	1	0.0395	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<0.0400	<0.330	<0.0400	mg/Kg	1	0.0400	0.25	0.0303
Benzyl alcohol	U	<0.0816	<0.330	<0.0816	mg/Kg	1	0.0816	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<0.0407	<0.330	<0.0407	mg/Kg	1	0.0407	0.25	0.0308
2-Methylphenol	U	<0.0666	<0.330	<0.0666	mg/Kg	1	0.0666	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<0.0359	<0.330	<0.0359	mg/Kg	1	0.0359	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<0.0461	<0.330	<0.0461	mg/Kg	1	0.0461	0.25	0.0349
Acetophenone	U	<0.0558	<0.330	<0.0558	mg/Kg	1	0.0558	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<0.0634	<0.330	<0.0634	mg/Kg	1	0.0634	0.25	0.048
Hexachloroethane	U	<0.0690	<0.330	<0.0690	mg/Kg	1	0.0690	0.25	0.0522
Nitrobenzene	U	<0.237	<0.330	<0.237	mg/Kg	1	0.237	0.25	0.1794
N-Nitrosopiperidine	U	<0.0468	<0.330	<0.0468	mg/Kg	1	0.0468	0.25	0.0354
Isophorone	U	<0.106	<0.330	<0.106	mg/Kg	1	0.106	0.25	0.0802
2-Nitrophenol	U	<0.0312	<0.330	<0.0312	mg/Kg	1	0.0312	0.25	0.0236
2,4-Dimethylphenol	U	<0.0550	<0.330	<0.0550	mg/Kg	1	0.0550	0.25	0.0416
bis(2-chloroethoxy)methane	U	<0.0647	<0.330	<0.0647	mg/Kg	1	0.0647	0.25	0.049
Benzoic acid	U	<0.182	<0.330	<0.182	mg/Kg	1	0.182	0.25	0.1374
2,4-Dichlorophenol	U	<0.171	<0.330	<0.171	mg/Kg	1	0.171	0.25	0.1297
1,2,4-Trichlorobenzene	U	<0.0392	<0.330	<0.0392	mg/Kg	1	0.0392	0.25	0.0297
a,a-Dimethylphenethylamine	U	<0.0704	<0.330	<0.0704	mg/Kg	1	0.0704	0.25	0.0533
Naphthalene	U	<0.0485	<0.330	<0.0485	mg/Kg	1	0.0485	0.25	0.0367
4-Chloroaniline	U	<0.0650	<0.330	<0.0650	mg/Kg	1	0.0650	0.25	0.0492
2,6-Dichlorophenol	U	<0.0482	<0.330	<0.0482	mg/Kg	1	0.0482	0.25	0.0365
Hexachlorobutadiene	U	<0.0481	<0.330	<0.0481	mg/Kg	1	0.0481	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<0.0676	<0.330	<0.0676	mg/Kg	1	0.0676	0.25	0.0512
4-Chloro-3-methylphenol	U	<0.0626	<0.330	<0.0626	mg/Kg	1	0.0626	0.25	0.0474
1-Methylnaphthalene	U	<0.0551	<0.330	<0.0551	mg/Kg	1	0.0551	0.25	0.0417
2-Methylnaphthalene	U	<0.0447	<0.330	<0.0447	mg/Kg	1	0.0447	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<0.0396	<0.330	<0.0396	mg/Kg	1	0.0396	0.25	0.03
Hexachlorocyclopentadiene	U	<0.0465	<0.330	<0.0465	mg/Kg	1	0.0465	0.25	0.0352
2,4,6-Trichlorophenol	U	<0.0444	<0.330	<0.0444	mg/Kg	1	0.0444	0.25	0.0336
2,4,5-Trichlorophenol	U	<0.0532	<0.330	<0.0532	mg/Kg	1	0.0532	0.25	0.0403
2-Chloronaphthalene	U	<0.0351	<0.330	<0.0351	mg/Kg	1	0.0351	0.25	0.0266
1-Chloronaphthalene	U	<0.0348	<0.330	<0.0348	mg/Kg	1	0.0348	0.25	0.0263
2-Nitroaniline	U	<0.0383	<0.330	<0.0383	mg/Kg	1	0.0383	0.25	0.029
Dimethylphthalate	U	<0.0383	<0.330	<0.0383	mg/Kg	1	0.0383	0.25	0.029
Acenaphthylene	U	<0.0860	<0.330	<0.0860	mg/Kg	1	0.0860	0.25	0.0651
2,6-Dinitrotoluene	U	<0.0707	<0.330	<0.0707	mg/Kg	1	0.0707	0.25	0.0535
3-Nitroaniline	U	<0.0556	<0.330	<0.0556	mg/Kg	1	0.0556	0.25	0.0421
Acenaphthene	U	<0.0984	<0.330	<0.0984	mg/Kg	1	0.0984	0.25	0.0745

continued ...

sample 216583 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
2,4-Dinitrophenol	U	<0.114	<0.330	<0.114	mg/Kg	1	0.114	0.25	0.086
Dibenzofuran	U	<0.0362	<0.330	<0.0362	mg/Kg	1	0.0362	0.25	0.0274
Pentachlorobenzene	U	<0.0523	<0.330	<0.0523	mg/Kg	1	0.0523	0.25	0.0396
4-Nitrophenol	U	<0.223	<0.330	<0.223	mg/Kg	1	0.223	0.25	0.1686
1-Naphthylamine	U	<0.0402	<0.330	<0.0402	mg/Kg	1	0.0402	0.25	0.0304
2,4-Dinitrotoluene	U	<0.0805	<0.330	<0.0805	mg/Kg	1	0.0805	0.25	0.0609
2-Naphthylamine	U	<0.202	<0.330	<0.202	mg/Kg	1	0.202	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<0.0534	<0.330	<0.0534	mg/Kg	1	0.0534	0.25	0.0404
Fluorene	U	<0.0575	<0.330	<0.0575	mg/Kg	1	0.0575	0.25	0.0435
Diethylphthalate	U	<0.0531	<0.330	<0.0531	mg/Kg	1	0.0531	0.25	0.0402
4-Chlorophenyl-phenylether	U	<0.0456	<0.330	<0.0456	mg/Kg	1	0.0456	0.25	0.0345
4-Nitroaniline	U	<0.0232	<0.330	<0.0232	mg/Kg	1	0.0232	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<0.436	<0.330	<0.436	mg/Kg	1	0.436	0.25	0.33
Diphenylamine	U	<0.0622	<0.330	<0.0622	mg/Kg	1	0.0622	0.25	0.0471
Diphenylhydrazine	U	<0.0847	<0.330	<0.0847	mg/Kg	1	0.0847	0.25	0.0641
4-Bromophenyl-phenylether	U	<0.0410	<0.330	<0.0410	mg/Kg	1	0.0410	0.25	0.031
Phenacetin	U	<0.0454	<0.330	<0.0454	mg/Kg	1	0.0454	0.25	0.0344
Hexachlorobenzene	U	<0.0404	<0.330	<0.0404	mg/Kg	1	0.0404	0.25	0.0306
4-Aminobiphenyl	U	<0.169	<0.330	<0.169	mg/Kg	1	0.169	0.25	0.128
Pentachlorophenol	U	<0.199	<0.330	<0.199	mg/Kg	1	0.199	0.25	0.1509
Pentachloronitrobenzene	U	<0.102	<0.330	<0.102	mg/Kg	1	0.102	0.25	0.0775
Pronamide	U	<0.0350	<0.330	<0.0350	mg/Kg	1	0.0350	0.25	0.0265
Phenanthrene	U	<0.0974	<0.330	<0.0974	mg/Kg	1	0.0974	0.25	0.0737
Anthracene	U	<0.0499	<0.330	<0.0499	mg/Kg	1	0.0499	0.25	0.0378
Di-n-butylphthalate	U	<0.0396	<0.330	<0.0396	mg/Kg	1	0.0396	0.25	0.02997
Fluoranthene	U	<0.0457	<0.330	<0.0457	mg/Kg	1	0.0457	0.25	0.0346
Benzidine	U	<0.150	<0.330	<0.150	mg/Kg	1	0.150	0.25	0.1138
Pyrene	U	<0.199	<0.330	<0.199	mg/Kg	1	0.199	0.25	0.1507
p-Dimethylaminoazobenzene	U	<0.0394	<0.330	<0.0394	mg/Kg	1	0.0394	0.25	0.0298
Butylbenzylphthalate	U	<0.0778	<0.330	<0.0778	mg/Kg	1	0.0778	0.25	0.0589
Benzo(a)anthracene	U	<0.0593	<0.330	<0.0593	mg/Kg	1	0.0593	0.25	0.04486
3,3-Dichlorobenzidine	U	<0.214	<0.330	<0.214	mg/Kg	1	0.214	0.25	0.1616
Chrysene	U	<0.0472	<0.330	<0.0472	mg/Kg	1	0.0472	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<0.106	<0.330	<0.106	mg/Kg	1	0.106	0.25	0.0805
Di-n-octylphthalate	U	<0.0521	<0.330	<0.0521	mg/Kg	1	0.0521	0.25	0.0394
Benzo(b)fluoranthene	U	<0.0851	<0.330	<0.0851	mg/Kg	1	0.0851	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<0.0470	<0.330	<0.0470	mg/Kg	1	0.0470	0.25	0.0356
Benzo(k)fluoranthene	U	<0.0613	<0.330	<0.0613	mg/Kg	1	0.0613	0.25	0.0464
Benzo(a)pyrene	U	<0.0461	<0.330	<0.0461	mg/Kg	1	0.0461	0.25	0.03489
3-Methylcholanthrene	U	<0.0979	<0.330	<0.0979	mg/Kg	1	0.0979	0.25	0.0741
Dibenzo(a,j)acridine	U	<0.0383	<0.330	<0.0383	mg/Kg	1	0.0383	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<0.0379	<0.330	<0.0379	mg/Kg	1	0.0379	0.25	0.0287
Dibenzo(a,h)anthracene	U	<0.0592	<0.330	<0.0592	mg/Kg	1	0.0592	0.25	0.04478
Benzo(g,h,i)perylene	U	<0.0365	<0.330	<0.0365	mg/Kg	1	0.0365	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.700	mg/Kg	1	2.67	26	8.6 - 115
Phenol-d5		0.630	mg/Kg	1	2.67	24	6.3 - 124
Nitrobenzene-d5		0.790	mg/Kg	1	2.67	30	11.3 - 116
2-Fluorobiphenyl		0.990	mg/Kg	1	2.67	37	14.6 - 122
2,4,6-Tribromophenol		1.17	mg/Kg	1	2.67	44	13.8 - 123
Terphenyl-d14		1.19	mg/Kg	1	2.67	44	30.8 - 134

Sample: 216583 - HLSF-LAGN2-SB-02-(1.5-2.0)

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 65947 Date Analyzed: 2009-12-11 Analyzed By: TP
 Prep Batch: 56360 Sample Preparation: 2009-12-11 Prepared By: TP
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010B Prep Method: S 3050B
 QC Batch: 65954 Date Analyzed: 2009-12-14 Analyzed By: RR
 Prep Batch: 56340 Sample Preparation: 2009-12-11 Prepared By: KV

Parameter	Flag	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Silver	U	<0.0875	<0.330	<0.0875	mg/Kg	1	0.0875	0.25	0.0662
Total Arsenic	U	<0.736	<2.64	<0.736	mg/Kg	1	0.736	2	0.557
Total Barium		42.4	42.4	<0.0719	mg/Kg	1	0.0719	1	0.0544
Total Cadmium	U	<0.0359	<0.264	<0.0359	mg/Kg	1	0.0359	0.2	0.0272
Total Chromium		11.8	11.8	<0.0769	mg/Kg	1	0.0769	0.5	0.0582
Total Mercury	U	<0.00281	<0.0330	<0.00281	mg/Kg	1	0.00281	0.025	0.00213
Total Lead	U	<0.274	<1.32	<0.274	mg/Kg	1	0.274	1	0.207
Total Selenium	U	<0.824	<2.64	<0.824	mg/Kg	1	0.824	2	0.624

Sample: 216584 - HLSF-LAGN2-SL-03-1209

Laboratory: Lubbock
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 66078 Date Analyzed: 2009-12-17 Analyzed By: KV
 Prep Batch: 56485 Sample Preparation: 2009-12-17 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		28.1	%	1	

Sample: 216584 - HLSF-LAGN2-SL-03-1209

Laboratory: Lubbock

Analysis: Semivolatiles WTS Analytical Method: S 8270C Prep Method: S 3550
 QC Batch: 66208 Date Analyzed: 2009-12-22 Analyzed By: MN
 Prep Batch: 56589 Sample Preparation: 2009-12-18 Prepared By: MN

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Pyridine	U	<0.0886	<0.348	<0.0886	mg/Kg	1	0.0886	0.25	0.0637
N-Nitrosodimethylamine	U	<0.0427	<0.348	<0.0427	mg/Kg	1	0.0427	0.25	0.0307
2-Picoline	U	<0.0971	<0.348	<0.0971	mg/Kg	1	0.0971	0.25	0.0698
Methyl methanesulfonate	U	<0.0416	<0.348	<0.0416	mg/Kg	1	0.0416	0.25	0.0299
Ethyl methanesulfonate	U	<0.0542	<0.348	<0.0542	mg/Kg	1	0.0542	0.25	0.039
Phenol	U	<0.0838	<0.348	<0.0838	mg/Kg	1	0.0838	0.25	0.060225
Aniline	U	<0.0513	<0.348	<0.0513	mg/Kg	1	0.0513	0.25	0.0369
bis(2-chloroethyl)ether	U	<0.0566	<0.348	<0.0566	mg/Kg	1	0.0566	0.25	0.0407
2-Chlorophenol	U	<0.128	<0.348	<0.128	mg/Kg	1	0.128	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<0.0416	<0.348	<0.0416	mg/Kg	1	0.0416	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<0.0421	<0.348	<0.0421	mg/Kg	1	0.0421	0.25	0.0303
Benzyl alcohol	U	<0.0860	<0.348	<0.0860	mg/Kg	1	0.0860	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<0.0428	<0.348	<0.0428	mg/Kg	1	0.0428	0.25	0.0308
2-Methylphenol	U	<0.0701	<0.348	<0.0701	mg/Kg	1	0.0701	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<0.0378	<0.348	<0.0378	mg/Kg	1	0.0378	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<0.0485	<0.348	<0.0485	mg/Kg	1	0.0485	0.25	0.0349
Acetophenone	U	<0.0587	<0.348	<0.0587	mg/Kg	1	0.0587	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<0.0668	<0.348	<0.0668	mg/Kg	1	0.0668	0.25	0.048
Hexachloroethane	U	<0.0726	<0.348	<0.0726	mg/Kg	1	0.0726	0.25	0.0522
Nitrobenzene	U	<0.250	<0.348	<0.250	mg/Kg	1	0.250	0.25	0.1794
N-Nitrosopiperidine	U	<0.0492	<0.348	<0.0492	mg/Kg	1	0.0492	0.25	0.0354
Isophorone	J	0.164	<0.348	<0.112	mg/Kg	1	0.112	0.25	0.0802
2-Nitrophenol	U	<0.0328	<0.348	<0.0328	mg/Kg	1	0.0328	0.25	0.0236
2,4-Dimethylphenol	U	<0.0578	<0.348	<0.0578	mg/Kg	1	0.0578	0.25	0.0416
bis(2-chloroethoxy)methane	U	<0.0682	<0.348	<0.0682	mg/Kg	1	0.0682	0.25	0.049
Benzoic acid	U	<0.191	<0.348	<0.191	mg/Kg	1	0.191	0.25	0.1374
2,4-Dichlorophenol	U	<0.180	<0.348	<0.180	mg/Kg	1	0.180	0.25	0.1297
1,2,4-Trichlorobenzene	U	<0.0413	<0.348	<0.0413	mg/Kg	1	0.0413	0.25	0.0297
a,a-Dimethylphenethylamine	U	<0.0741	<0.348	<0.0741	mg/Kg	1	0.0741	0.25	0.0533
Naphthalene	U	<0.0510	<0.348	<0.0510	mg/Kg	1	0.0510	0.25	0.0367
4-Chloroaniline	U	<0.0684	<0.348	<0.0684	mg/Kg	1	0.0684	0.25	0.0492
2,6-Dichlorophenol	U	<0.0508	<0.348	<0.0508	mg/Kg	1	0.0508	0.25	0.0365
Hexachlorobutadiene	U	<0.0506	<0.348	<0.0506	mg/Kg	1	0.0506	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<0.0712	<0.348	<0.0712	mg/Kg	1	0.0712	0.25	0.0512
4-Chloro-3-methylphenol	U	<0.0659	<0.348	<0.0659	mg/Kg	1	0.0659	0.25	0.0474
1-Methylnaphthalene	U	<0.0580	<0.348	<0.0580	mg/Kg	1	0.0580	0.25	0.0417
2-Methylnaphthalene	U	<0.0471	<0.348	<0.0471	mg/Kg	1	0.0471	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<0.0417	<0.348	<0.0417	mg/Kg	1	0.0417	0.25	0.03
Hexachlorocyclopentadiene	U	<0.0490	<0.348	<0.0490	mg/Kg	1	0.0490	0.25	0.0352
2,4,6-Trichlorophenol	U	<0.0467	<0.348	<0.0467	mg/Kg	1	0.0467	0.25	0.0336
2,4,5-Trichlorophenol	U	<0.0560	<0.348	<0.0560	mg/Kg	1	0.0560	0.25	0.0403
2-Chloronaphthalene	U	<0.0370	<0.348	<0.0370	mg/Kg	1	0.0370	0.25	0.0266
1-Chloronaphthalene	U	<0.0366	<0.348	<0.0366	mg/Kg	1	0.0366	0.25	0.0263

continued ...

sample 216584 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
2-Nitroaniline	U	<0.0403	<0.348	<0.0403	mg/Kg	1	0.0403	0.25	0.029
Dimethylphthalate	U	<0.0403	<0.348	<0.0403	mg/Kg	1	0.0403	0.25	0.029
Acenaphthylene	U	<0.0905	<0.348	<0.0905	mg/Kg	1	0.0905	0.25	0.0651
2,6-Dinitrotoluene	U	<0.0744	<0.348	<0.0744	mg/Kg	1	0.0744	0.25	0.0535
3-Nitroaniline	U	<0.0586	<0.348	<0.0586	mg/Kg	1	0.0586	0.25	0.0421
Acenaphthene	U	<0.104	<0.348	<0.104	mg/Kg	1	0.104	0.25	0.0745
2,4-Dinitrophenol	U	<0.120	<0.348	<0.120	mg/Kg	1	0.120	0.25	0.086
Dibenzofuran	U	<0.0381	<0.348	<0.0381	mg/Kg	1	0.0381	0.25	0.0274
Pentachlorobenzene	U	<0.0551	<0.348	<0.0551	mg/Kg	1	0.0551	0.25	0.0396
4-Nitrophenol	U	<0.234	<0.348	<0.234	mg/Kg	1	0.234	0.25	0.1686
1-Naphthylamine	U	<0.0423	<0.348	<0.0423	mg/Kg	1	0.0423	0.25	0.0304
2,4-Dinitrotoluene	U	<0.0847	<0.348	<0.0847	mg/Kg	1	0.0847	0.25	0.0609
2-Naphthylamine	U	<0.212	<0.348	<0.212	mg/Kg	1	0.212	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<0.0562	<0.348	<0.0562	mg/Kg	1	0.0562	0.25	0.0404
Fluorene	U	<0.0605	<0.348	<0.0605	mg/Kg	1	0.0605	0.25	0.0435
Diethylphthalate	U	<0.0559	<0.348	<0.0559	mg/Kg	1	0.0559	0.25	0.0402
4-Chlorophenyl-phenylether	U	<0.0480	<0.348	<0.0480	mg/Kg	1	0.0480	0.25	0.0345
4-Nitroaniline	U	<0.0245	<0.348	<0.0245	mg/Kg	1	0.0245	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<0.459	<0.348	<0.459	mg/Kg	1	0.459	0.25	0.33
Diphenylamine	U	<0.0655	<0.348	<0.0655	mg/Kg	1	0.0655	0.25	0.0471
Diphenylhydrazine	U	<0.0892	<0.348	<0.0892	mg/Kg	1	0.0892	0.25	0.0641
4-Bromophenyl-phenylether	U	<0.0431	<0.348	<0.0431	mg/Kg	1	0.0431	0.25	0.031
Phenacetin	U	<0.0478	<0.348	<0.0478	mg/Kg	1	0.0478	0.25	0.0344
Hexachlorobenzene	U	<0.0426	<0.348	<0.0426	mg/Kg	1	0.0426	0.25	0.0306
4-Aminobiphenyl	U	<0.178	<0.348	<0.178	mg/Kg	1	0.178	0.25	0.128
Pentachlorophenol	U	<0.210	<0.348	<0.210	mg/Kg	1	0.210	0.25	0.1509
Pentachloronitrobenzene	U	<0.108	<0.348	<0.108	mg/Kg	1	0.108	0.25	0.0775
Pronamide	U	<0.0368	<0.348	<0.0368	mg/Kg	1	0.0368	0.25	0.0265
Phenanthrene	U	<0.102	<0.348	<0.102	mg/Kg	1	0.102	0.25	0.0737
Anthracene	U	<0.0526	<0.348	<0.0526	mg/Kg	1	0.0526	0.25	0.0378
Di-n-butylphthalate	J	0.0419	<0.348	<0.0417	mg/Kg	1	0.0417	0.25	0.02997
Fluoranthene	U	<0.0481	<0.348	<0.0481	mg/Kg	1	0.0481	0.25	0.0346
Benzidine	U	<0.158	<0.348	<0.158	mg/Kg	1	0.158	0.25	0.1138
Pyrene	U	<0.210	<0.348	<0.210	mg/Kg	1	0.210	0.25	0.1507
p-Dimethylaminoazobenzene	U	<0.0414	<0.348	<0.0414	mg/Kg	1	0.0414	0.25	0.0298
Butylbenzylphthalate	U	<0.0819	<0.348	<0.0819	mg/Kg	1	0.0819	0.25	0.0589
Benzo(a)anthracene	U	<0.0624	<0.348	<0.0624	mg/Kg	1	0.0624	0.25	0.04486
3,3-Dichlorobenzidine	U	<0.225	<0.348	<0.225	mg/Kg	1	0.225	0.25	0.1616
Chrysene	U	<0.0496	<0.348	<0.0496	mg/Kg	1	0.0496	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<0.112	<0.348	<0.112	mg/Kg	1	0.112	0.25	0.0805
Di-n-octylphthalate	U	<0.0548	<0.348	<0.0548	mg/Kg	1	0.0548	0.25	0.0394
Benzo(b)fluoranthene	U	<0.0896	<0.348	<0.0896	mg/Kg	1	0.0896	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<0.0495	<0.348	<0.0495	mg/Kg	1	0.0495	0.25	0.0356
Benzo(k)fluoranthene	U	<0.0645	<0.348	<0.0645	mg/Kg	1	0.0645	0.25	0.0464
Benzo(a)pyrene	U	<0.0485	<0.348	<0.0485	mg/Kg	1	0.0485	0.25	0.03489

continued ...

sample 216584 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
3-Methylcholanthrene	U	<0.103	<0.348	<0.103	mg/Kg	1	0.103	0.25	0.0741
Dibenzo(a,j)acridine	U	<0.0403	<0.348	<0.0403	mg/Kg	1	0.0403	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<0.0399	<0.348	<0.0399	mg/Kg	1	0.0399	0.25	0.0287
Dibenzo(a,h)anthracene	U	<0.0623	<0.348	<0.0623	mg/Kg	1	0.0623	0.25	0.04478
Benzo(g,h,i)perylene	U	<0.0384	<0.348	<0.0384	mg/Kg	1	0.0384	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.76	mg/Kg	1	2.67	66	8.6 - 115
Phenol-d5		1.42	mg/Kg	1	2.67	53	6.3 - 124
Nitrobenzene-d5		1.94	mg/Kg	1	2.67	73	11.3 - 116
2-Fluorobiphenyl		2.07	mg/Kg	1	2.67	78	14.6 - 122
2,4,6-Tribromophenol		2.27	mg/Kg	1	2.67	85	13.8 - 123
Terphenyl-d14		2.30	mg/Kg	1	2.67	86	30.8 - 134

Sample: 216584 - HLSF-LAGN2-SL-03-1209

Laboratory: Lubbock							
Analysis: Total 8 Metals		Analytical Method: S 7471 B		Prep Method: N/A			
QC Batch: 65947		Date Analyzed: 2009-12-11		Analyzed By: TP			
Prep Batch: 56360		Sample Preparation: 2009-12-11		Prepared By: TP			
Laboratory: Lubbock							
Analysis: Total 8 Metals		Analytical Method: S 6010B		Prep Method: S 3050B			
QC Batch: 65954		Date Analyzed: 2009-12-14		Analyzed By: RR			
Prep Batch: 56340		Sample Preparation: 2009-12-11		Prepared By: KV			

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Silver	U	<0.0921	<0.348	<0.0921	mg/Kg	1	0.0921	0.25	0.0662
Total Arsenic	J	1.07	<2.78	<0.775	mg/Kg	1	0.775	2	0.557
Total Barium		40.9	40.9	<0.0757	mg/Kg	1	0.0757	1	0.0544
Total Cadmium	U	<0.0378	<0.278	<0.0378	mg/Kg	1	0.0378	0.2	0.0272
Total Chromium		3.70	3.70	<0.0809	mg/Kg	1	0.0809	0.5	0.0582
Total Mercury		0.0846	0.0846	<0.00296	mg/Kg	1	0.00296	0.025	0.00213
Total Lead	U	<0.288	<1.39	<0.288	mg/Kg	1	0.288	1	0.207
Total Selenium	U	<0.868	<2.78	<0.868	mg/Kg	1	0.868	2	0.624

Sample: 216585 - HLSF-LAGN2-SB-03-(1.5-2.0)

Laboratory: Lubbock				
Analysis: Moisture Content		Analytical Method: ASTM D 2216-05		Prep Method: N/A
QC Batch: 66078		Date Analyzed: 2009-12-17		Analyzed By: KV

Prep Batch: 56485

Sample Preparation: 2009-12-17

Prepared By: KV

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Moisture		27.3		%	1	

Sample: 216585 - HLSF-LAGN2-SB-03-(1.5-2.0)

Laboratory: Lubbock

Analysis: Semivolatiles WTS

QC Batch: 66240

Prep Batch: 56614

Analytical Method: S 8270C

Date Analyzed: 2009-12-23

Sample Preparation: 2009-12-18

Prep Method: S 3550

Analyzed By: MN

Prepared By: MN

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Pyridine	U	<0.0876	<0.344	<0.0876	mg/Kg	1	0.0876	0.25	0.0637
N-Nitrosodimethylamine	U	<0.0422	<0.344	<0.0422	mg/Kg	1	0.0422	0.25	0.0307
2-Picoline	U	<0.0960	<0.344	<0.0960	mg/Kg	1	0.0960	0.25	0.0698
Methyl methanesulfonate	U	<0.0411	<0.344	<0.0411	mg/Kg	1	0.0411	0.25	0.0299
Ethyl methanesulfonate	U	<0.0537	<0.344	<0.0537	mg/Kg	1	0.0537	0.25	0.039
Phenol	U	<0.0829	<0.344	<0.0829	mg/Kg	1	0.0829	0.25	0.060225
Aniline	U	<0.0508	<0.344	<0.0508	mg/Kg	1	0.0508	0.25	0.0369
bis(2-chloroethyl)ether	U	<0.0560	<0.344	<0.0560	mg/Kg	1	0.0560	0.25	0.0407
2-Chlorophenol	U	<0.127	<0.344	<0.127	mg/Kg	1	0.127	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<0.0411	<0.344	<0.0411	mg/Kg	1	0.0411	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<0.0417	<0.344	<0.0417	mg/Kg	1	0.0417	0.25	0.0303
Benzyl alcohol	U	<0.0850	<0.344	<0.0850	mg/Kg	1	0.0850	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<0.0424	<0.344	<0.0424	mg/Kg	1	0.0424	0.25	0.0308
2-Methylphenol	U	<0.0694	<0.344	<0.0694	mg/Kg	1	0.0694	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<0.0374	<0.344	<0.0374	mg/Kg	1	0.0374	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<0.0480	<0.344	<0.0480	mg/Kg	1	0.0480	0.25	0.0349
Acetophenone	U	<0.0581	<0.344	<0.0581	mg/Kg	1	0.0581	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<0.0660	<0.344	<0.0660	mg/Kg	1	0.0660	0.25	0.048
Hexachloroethane	U	<0.0718	<0.344	<0.0718	mg/Kg	1	0.0718	0.25	0.0522
Nitrobenzene	U	<0.247	<0.344	<0.247	mg/Kg	1	0.247	0.25	0.1794
N-Nitrosopiperidine	U	<0.0487	<0.344	<0.0487	mg/Kg	1	0.0487	0.25	0.0354
Isophorone	U	<0.110	<0.344	<0.110	mg/Kg	1	0.110	0.25	0.0802
2-Nitrophenol	U	<0.0325	<0.344	<0.0325	mg/Kg	1	0.0325	0.25	0.0236
2,4-Dimethylphenol	U	<0.0572	<0.344	<0.0572	mg/Kg	1	0.0572	0.25	0.0416
bis(2-chloroethoxy)methane	U	<0.0674	<0.344	<0.0674	mg/Kg	1	0.0674	0.25	0.049
Benzoic acid	U	<0.189	<0.344	<0.189	mg/Kg	1	0.189	0.25	0.1374
2,4-Dichlorophenol	U	<0.178	<0.344	<0.178	mg/Kg	1	0.178	0.25	0.1297
1,2,4-Trichlorobenzene	U	<0.0409	<0.344	<0.0409	mg/Kg	1	0.0409	0.25	0.0297
a,a-Dimethylphenethylamine	U	<0.0733	<0.344	<0.0733	mg/Kg	1	0.0733	0.25	0.0533
Naphthalene	U	<0.0505	<0.344	<0.0505	mg/Kg	1	0.0505	0.25	0.0367
4-Chloroaniline	U	<0.0677	<0.344	<0.0677	mg/Kg	1	0.0677	0.25	0.0492
2,6-Dichlorophenol	U	<0.0502	<0.344	<0.0502	mg/Kg	1	0.0502	0.25	0.0365
Hexachlorobutadiene	U	<0.0501	<0.344	<0.0501	mg/Kg	1	0.0501	0.25	0.0364

continued ...

sample 216585 continued ...

Parameter	Flag	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
N-Nitroso-di-n-butylamine	U	<0.0704	<0.344	<0.0704	mg/Kg	1	0.0704	0.25	0.0512
4-Chloro-3-methylphenol	U	<0.0652	<0.344	<0.0652	mg/Kg	1	0.0652	0.25	0.0474
1-Methylnaphthalene	U	<0.0574	<0.344	<0.0574	mg/Kg	1	0.0574	0.25	0.0417
2-Methylnaphthalene	U	<0.0466	<0.344	<0.0466	mg/Kg	1	0.0466	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<0.0413	<0.344	<0.0413	mg/Kg	1	0.0413	0.25	0.03
Hexachlorocyclopentadiene	U	<0.0484	<0.344	<0.0484	mg/Kg	1	0.0484	0.25	0.0352
2,4,6-Trichlorophenol	U	<0.0462	<0.344	<0.0462	mg/Kg	1	0.0462	0.25	0.0336
2,4,5-Trichlorophenol	U	<0.0554	<0.344	<0.0554	mg/Kg	1	0.0554	0.25	0.0403
2-Chloronaphthalene	U	<0.0366	<0.344	<0.0366	mg/Kg	1	0.0366	0.25	0.0266
1-Chloronaphthalene	U	<0.0362	<0.344	<0.0362	mg/Kg	1	0.0362	0.25	0.0263
2-Nitroaniline	U	<0.0399	<0.344	<0.0399	mg/Kg	1	0.0399	0.25	0.029
Dimethylphthalate	U	<0.0399	<0.344	<0.0399	mg/Kg	1	0.0399	0.25	0.029
Acenaphthylene	U	<0.0896	<0.344	<0.0896	mg/Kg	1	0.0896	0.25	0.0651
2,6-Dinitrotoluene	U	<0.0736	<0.344	<0.0736	mg/Kg	1	0.0736	0.25	0.0535
3-Nitroaniline	U	<0.0579	<0.344	<0.0579	mg/Kg	1	0.0579	0.25	0.0421
Acenaphthene	U	<0.102	<0.344	<0.102	mg/Kg	1	0.102	0.25	0.0745
2,4-Dinitrophenol	U	<0.118	<0.344	<0.118	mg/Kg	1	0.118	0.25	0.086
Dibenzofuran	U	<0.0377	<0.344	<0.0377	mg/Kg	1	0.0377	0.25	0.0274
Pentachlorobenzene	U	<0.0545	<0.344	<0.0545	mg/Kg	1	0.0545	0.25	0.0396
4-Nitrophenol	U	<0.232	<0.344	<0.232	mg/Kg	1	0.232	0.25	0.1686
1-Naphthylamine	U	<0.0418	<0.344	<0.0418	mg/Kg	1	0.0418	0.25	0.0304
2,4-Dinitrotoluene	U	<0.0838	<0.344	<0.0838	mg/Kg	1	0.0838	0.25	0.0609
2-Naphthylamine	U	<0.210	<0.344	<0.210	mg/Kg	1	0.210	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<0.0556	<0.344	<0.0556	mg/Kg	1	0.0556	0.25	0.0404
Fluorene	U	<0.0598	<0.344	<0.0598	mg/Kg	1	0.0598	0.25	0.0435
Diethylphthalate	U	<0.0553	<0.344	<0.0553	mg/Kg	1	0.0553	0.25	0.0402
4-Chlorophenyl-phenylether	U	<0.0475	<0.344	<0.0475	mg/Kg	1	0.0475	0.25	0.0345
4-Nitroaniline	U	<0.0242	<0.344	<0.0242	mg/Kg	1	0.0242	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<0.454	<0.344	<0.454	mg/Kg	1	0.454	0.25	0.33
Diphenylamine	U	<0.0648	<0.344	<0.0648	mg/Kg	1	0.0648	0.25	0.0471
Diphenylhydrazine	U	<0.0882	<0.344	<0.0882	mg/Kg	1	0.0882	0.25	0.0641
4-Bromophenyl-phenylether	U	<0.0426	<0.344	<0.0426	mg/Kg	1	0.0426	0.25	0.031
Phenacetin	U	<0.0473	<0.344	<0.0473	mg/Kg	1	0.0473	0.25	0.0344
Hexachlorobenzene	U	<0.0421	<0.344	<0.0421	mg/Kg	1	0.0421	0.25	0.0306
4-Aminobiphenyl	U	<0.176	<0.344	<0.176	mg/Kg	1	0.176	0.25	0.128
Pentachlorophenol	U	<0.208	<0.344	<0.208	mg/Kg	1	0.208	0.25	0.1509
Pentachloronitrobenzene	U	<0.107	<0.344	<0.107	mg/Kg	1	0.107	0.25	0.0775
Pronamide	U	<0.0365	<0.344	<0.0365	mg/Kg	1	0.0365	0.25	0.0265
Phenanthrene	U	<0.101	<0.344	<0.101	mg/Kg	1	0.101	0.25	0.0737
Anthracene	U	<0.0520	<0.344	<0.0520	mg/Kg	1	0.0520	0.25	0.0378
Di-n-butylphthalate	U	<0.0412	<0.344	<0.0412	mg/Kg	1	0.0412	0.25	0.02997
Fluoranthene	U	<0.0476	<0.344	<0.0476	mg/Kg	1	0.0476	0.25	0.0346
Benzidine	U	<0.156	<0.344	<0.156	mg/Kg	1	0.156	0.25	0.1138
Pyrene	U	<0.207	<0.344	<0.207	mg/Kg	1	0.207	0.25	0.1507
p-Dimethylaminoazobenzene	U	<0.0410	<0.344	<0.0410	mg/Kg	1	0.0410	0.25	0.0298

continued ...

sample 216585 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Butylbenzylphthalate	U	<0.0810	<0.344	<0.0810	mg/Kg	1	0.0810	0.25	0.0589
Benzo(a)anthracene	U	<0.0617	<0.344	<0.0617	mg/Kg	1	0.0617	0.25	0.04486
3,3-Dichlorobenzidine	U	<0.222	<0.344	<0.222	mg/Kg	1	0.222	0.25	0.1616
Chrysene	U	<0.0491	<0.344	<0.0491	mg/Kg	1	0.0491	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<0.111	<0.344	<0.111	mg/Kg	1	0.111	0.25	0.0805
Di-n-octylphthalate	U	<0.0542	<0.344	<0.0542	mg/Kg	1	0.0542	0.25	0.0394
Benzo(b)fluoranthene	U	<0.0886	<0.344	<0.0886	mg/Kg	1	0.0886	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<0.0490	<0.344	<0.0490	mg/Kg	1	0.0490	0.25	0.0356
Benzo(k)fluoranthene	U	<0.0638	<0.344	<0.0638	mg/Kg	1	0.0638	0.25	0.0464
Benzo(a)pyrene	U	<0.0480	<0.344	<0.0480	mg/Kg	1	0.0480	0.25	0.03489
3-Methylcholanthrene	U	<0.102	<0.344	<0.102	mg/Kg	1	0.102	0.25	0.0741
Dibenzo(a,j)acridine	U	<0.0399	<0.344	<0.0399	mg/Kg	1	0.0399	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<0.0395	<0.344	<0.0395	mg/Kg	1	0.0395	0.25	0.0287
Dibenzo(a,h)anthracene	U	<0.0616	<0.344	<0.0616	mg/Kg	1	0.0616	0.25	0.04478
Benzo(g,h,i)perylene	U	<0.0380	<0.344	<0.0380	mg/Kg	1	0.0380	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.06	mg/Kg	1	2.67	40	8.6 - 115
Phenol-d5		0.830	mg/Kg	1	2.67	31	6.3 - 124
Nitrobenzene-d5		1.06	mg/Kg	1	2.67	40	11.3 - 116
2-Fluorobiphenyl		1.23	mg/Kg	1	2.67	46	14.6 - 122
2,4,6-Tribromophenol		1.56	mg/Kg	1	2.67	58	13.8 - 123
Terphenyl-d14		1.48	mg/Kg	1	2.67	55	30.8 - 134

Sample: 216585 - HLSF-LAGN2-SB-03-(1.5-2.0)

Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 7471 B	Prep Method:	N/A
QC Batch:	65947	Date Analyzed:	2009-12-11	Analyzed By:	TP
Prep Batch:	56360	Sample Preparation:	2009-12-11	Prepared By:	TP
Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	65954	Date Analyzed:	2009-12-14	Analyzed By:	RR
Prep Batch:	56340	Sample Preparation:	2009-12-11	Prepared By:	KV

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Silver	U	<0.0911	<0.344	<0.0911	mg/Kg	1	0.0911	0.25	0.0662
Total Arsenic	U	<0.766	<2.75	<0.766	mg/Kg	1	0.766	2	0.557
Total Barium		43.1	43.1	<0.0748	mg/Kg	1	0.0748	1	0.0544
Total Cadmium	U	<0.0374	<0.275	<0.0374	mg/Kg	1	0.0374	0.2	0.0272
Total Chromium		2.42	2.42	<0.0801	mg/Kg	1	0.0801	0.5	0.0582

continued ...

sample 216585 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Mercury	U	<0.00293	<0.0344	<0.00293	mg/Kg	1	0.00293	0.025	0.00213
Total Lead	U	<0.285	<1.38	<0.285	mg/Kg	1	0.285	1	0.207
Total Selenium	U	<0.859	<2.75	<0.859	mg/Kg	1	0.859	2	0.624

Sample: 216586 - HLSF-LAGN2-SL-01-1209

Laboratory: Lubbock
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 66078 Date Analyzed: 2009-12-17 Analyzed By: KV
 Prep Batch: 56485 Sample Preparation: 2009-12-17 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		32.3	%	1	

Sample: 216586 - HLSF-LAGN2-SL-01-1209

Laboratory: Lubbock
 Analysis: Semivolatiles WTS Analytical Method: S 8270C Prep Method: S 3550
 QC Batch: 66240 Date Analyzed: 2009-12-23 Analyzed By: MN
 Prep Batch: 56614 Sample Preparation: 2009-12-18 Prepared By: MN

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Pyridine	U	<0.0940	<0.369	<0.0940	mg/Kg	1	0.0940	0.25	0.0637
N-Nitrosodimethylamine	U	<0.0453	<0.369	<0.0453	mg/Kg	1	0.0453	0.25	0.0307
2-Picoline	U	<0.103	<0.369	<0.103	mg/Kg	1	0.103	0.25	0.0698
Methyl methanesulfonate	U	<0.0441	<0.369	<0.0441	mg/Kg	1	0.0441	0.25	0.0299
Ethyl methanesulfonate	U	<0.0576	<0.369	<0.0576	mg/Kg	1	0.0576	0.25	0.039
Phenol	U	<0.0889	<0.369	<0.0889	mg/Kg	1	0.0889	0.25	0.060225
Aniline	U	<0.0545	<0.369	<0.0545	mg/Kg	1	0.0545	0.25	0.0369
bis(2-chloroethyl)ether	U	<0.0601	<0.369	<0.0601	mg/Kg	1	0.0601	0.25	0.0407
2-Chlorophenol	U	<0.136	<0.369	<0.136	mg/Kg	1	0.136	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<0.0441	<0.369	<0.0441	mg/Kg	1	0.0441	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<0.0447	<0.369	<0.0447	mg/Kg	1	0.0447	0.25	0.0303
Benzyl alcohol	U	<0.0912	<0.369	<0.0912	mg/Kg	1	0.0912	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<0.0455	<0.369	<0.0455	mg/Kg	1	0.0455	0.25	0.0308
2-Methylphenol	U	<0.0744	<0.369	<0.0744	mg/Kg	1	0.0744	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<0.0402	<0.369	<0.0402	mg/Kg	1	0.0402	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<0.0515	<0.369	<0.0515	mg/Kg	1	0.0515	0.25	0.0349
Acetophenone	U	<0.0623	<0.369	<0.0623	mg/Kg	1	0.0623	0.25	0.0422

continued ...

sample 216586 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
N-Nitrosodi-n-propylamine	U	<0.0708	<0.369	<0.0708	mg/Kg	1	0.0708	0.25	0.048
Hexachloroethane	U	<0.0770	<0.369	<0.0770	mg/Kg	1	0.0770	0.25	0.0522
Nitrobenzene	U	<0.265	<0.369	<0.265	mg/Kg	1	0.265	0.25	0.1794
N-Nitrosopiperidine	U	<0.0522	<0.369	<0.0522	mg/Kg	1	0.0522	0.25	0.0354
Isophorone		0.528	0.528	<0.118	mg/Kg	1	0.118	0.25	0.0802
2-Nitrophenol	U	<0.0348	<0.369	<0.0348	mg/Kg	1	0.0348	0.25	0.0236
2,4-Dimethylphenol	U	<0.0614	<0.369	<0.0614	mg/Kg	1	0.0614	0.25	0.0416
bis(2-chloroethoxy)methane	U	<0.0723	<0.369	<0.0723	mg/Kg	1	0.0723	0.25	0.049
Benzoic acid	U	<0.203	<0.369	<0.203	mg/Kg	1	0.203	0.25	0.1374
2,4-Dichlorophenol	U	<0.191	<0.369	<0.191	mg/Kg	1	0.191	0.25	0.1297
1,2,4-Trichlorobenzene	U	<0.0438	<0.369	<0.0438	mg/Kg	1	0.0438	0.25	0.0297
a,a-Dimethylphenethylamine	U	<0.0787	<0.369	<0.0787	mg/Kg	1	0.0787	0.25	0.0533
Naphthalene	U	<0.0542	<0.369	<0.0542	mg/Kg	1	0.0542	0.25	0.0367
4-Chloroaniline	U	<0.0726	<0.369	<0.0726	mg/Kg	1	0.0726	0.25	0.0492
2,6-Dichlorophenol	U	<0.0539	<0.369	<0.0539	mg/Kg	1	0.0539	0.25	0.0365
Hexachlorobutadiene	U	<0.0537	<0.369	<0.0537	mg/Kg	1	0.0537	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<0.0756	<0.369	<0.0756	mg/Kg	1	0.0756	0.25	0.0512
4-Chloro-3-methylphenol	U	<0.0700	<0.369	<0.0700	mg/Kg	1	0.0700	0.25	0.0474
1-Methylnaphthalene	J	0.0669	<0.369	<0.0616	mg/Kg	1	0.0616	0.25	0.0417
2-Methylnaphthalene	U	<0.0500	<0.369	<0.0500	mg/Kg	1	0.0500	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<0.0443	<0.369	<0.0443	mg/Kg	1	0.0443	0.25	0.03
Hexachlorocyclopentadiene	U	<0.0520	<0.369	<0.0520	mg/Kg	1	0.0520	0.25	0.0352
2,4,6-Trichlorophenol	U	<0.0496	<0.369	<0.0496	mg/Kg	1	0.0496	0.25	0.0336
2,4,5-Trichlorophenol	U	<0.0595	<0.369	<0.0595	mg/Kg	1	0.0595	0.25	0.0403
2-Chloronaphthalene	U	<0.0393	<0.369	<0.0393	mg/Kg	1	0.0393	0.25	0.0266
1-Chloronaphthalene	U	<0.0388	<0.369	<0.0388	mg/Kg	1	0.0388	0.25	0.0263
2-Nitroaniline	U	<0.0428	<0.369	<0.0428	mg/Kg	1	0.0428	0.25	0.029
Dimethylphthalate	U	<0.0428	<0.369	<0.0428	mg/Kg	1	0.0428	0.25	0.029
Acenaphthylene	U	<0.0961	<0.369	<0.0961	mg/Kg	1	0.0961	0.25	0.0651
2,6-Dinitrotoluene	U	<0.0790	<0.369	<0.0790	mg/Kg	1	0.0790	0.25	0.0535
3-Nitroaniline	U	<0.0621	<0.369	<0.0621	mg/Kg	1	0.0621	0.25	0.0421
Acenaphthene	U	<0.110	<0.369	<0.110	mg/Kg	1	0.110	0.25	0.0745
2,4-Dinitrophenol	U	<0.127	<0.369	<0.127	mg/Kg	1	0.127	0.25	0.086
Dibenzofuran	U	<0.0404	<0.369	<0.0404	mg/Kg	1	0.0404	0.25	0.0274
Pentachlorobenzene	U	<0.0584	<0.369	<0.0584	mg/Kg	1	0.0584	0.25	0.0396
4-Nitrophenol	U	<0.249	<0.369	<0.249	mg/Kg	1	0.249	0.25	0.1686
1-Naphthylamine	U	<0.0449	<0.369	<0.0449	mg/Kg	1	0.0449	0.25	0.0304
2,4-Dinitrotoluene	U	<0.0899	<0.369	<0.0899	mg/Kg	1	0.0899	0.25	0.0609
2-Naphthylamine	U	<0.225	<0.369	<0.225	mg/Kg	1	0.225	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<0.0596	<0.369	<0.0596	mg/Kg	1	0.0596	0.25	0.0404
Fluorene	U	<0.0642	<0.369	<0.0642	mg/Kg	1	0.0642	0.25	0.0435
Diethylphthalate	U	<0.0593	<0.369	<0.0593	mg/Kg	1	0.0593	0.25	0.0402
4-Chlorophenyl-phenylether	U	<0.0509	<0.369	<0.0509	mg/Kg	1	0.0509	0.25	0.0345
4-Nitroaniline	U	<0.0260	<0.369	<0.0260	mg/Kg	1	0.0260	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<0.487	<0.369	<0.487	mg/Kg	1	0.487	0.25	0.33

continued ...

sample 216586 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Diphenylamine	U	<0.0695	<0.369	<0.0695	mg/Kg	1	0.0695	0.25	0.0471
Diphenylhydrazine	U	<0.0946	<0.369	<0.0946	mg/Kg	1	0.0946	0.25	0.0641
4-Bromophenyl-phenylether	U	<0.0458	<0.369	<0.0458	mg/Kg	1	0.0458	0.25	0.031
Phenacetin	U	<0.0508	<0.369	<0.0508	mg/Kg	1	0.0508	0.25	0.0344
Hexachlorobenzene	U	<0.0452	<0.369	<0.0452	mg/Kg	1	0.0452	0.25	0.0306
4-Aminobiphenyl	U	<0.189	<0.369	<0.189	mg/Kg	1	0.189	0.25	0.128
Pentachlorophenol	U	<0.223	<0.369	<0.223	mg/Kg	1	0.223	0.25	0.1509
Pentachloronitrobenzene	U	<0.114	<0.369	<0.114	mg/Kg	1	0.114	0.25	0.0775
Pronamide	U	<0.0391	<0.369	<0.0391	mg/Kg	1	0.0391	0.25	0.0265
Phenanthrene		0.534	0.534	<0.109	mg/Kg	1	0.109	0.25	0.0737
Anthracene	U	<0.0558	<0.369	<0.0558	mg/Kg	1	0.0558	0.25	0.0378
Di-n-butylphthalate	U	<0.0442	<0.369	<0.0442	mg/Kg	1	0.0442	0.25	0.02997
Fluoranthene	U	<0.0511	<0.369	<0.0511	mg/Kg	1	0.0511	0.25	0.0346
Benzidine	U	<0.168	<0.369	<0.168	mg/Kg	1	0.168	0.25	0.1138
Pyrene	U	<0.222	<0.369	<0.222	mg/Kg	1	0.222	0.25	0.1507
p-Dimethylaminoazobenzene	U	<0.0440	<0.369	<0.0440	mg/Kg	1	0.0440	0.25	0.0298
Butylbenzylphthalate	U	<0.0870	<0.369	<0.0870	mg/Kg	1	0.0870	0.25	0.0589
Benzo(a)anthracene	U	<0.0662	<0.369	<0.0662	mg/Kg	1	0.0662	0.25	0.04486
3,3-Dichlorobenzidine	U	<0.238	<0.369	<0.238	mg/Kg	1	0.238	0.25	0.1616
Chrysene	U	<0.0527	<0.369	<0.0527	mg/Kg	1	0.0527	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<0.119	<0.369	<0.119	mg/Kg	1	0.119	0.25	0.0805
Di-n-octylphthalate	U	<0.0582	<0.369	<0.0582	mg/Kg	1	0.0582	0.25	0.0394
Benzo(b)fluoranthene	U	<0.0951	<0.369	<0.0951	mg/Kg	1	0.0951	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<0.0526	<0.369	<0.0526	mg/Kg	1	0.0526	0.25	0.0356
Benzo(k)fluoranthene	U	<0.0685	<0.369	<0.0685	mg/Kg	1	0.0685	0.25	0.0464
Benzo(a)pyrene	U	<0.0515	<0.369	<0.0515	mg/Kg	1	0.0515	0.25	0.03489
3-Methylcholanthrene	U	<0.109	<0.369	<0.109	mg/Kg	1	0.109	0.25	0.0741
Dibenzo(a,j)acridine	U	<0.0428	<0.369	<0.0428	mg/Kg	1	0.0428	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<0.0424	<0.369	<0.0424	mg/Kg	1	0.0424	0.25	0.0287
Dibenzo(a,h)anthracene	U	<0.0661	<0.369	<0.0661	mg/Kg	1	0.0661	0.25	0.04478
Benzo(g,h,i)perylene	U	<0.0407	<0.369	<0.0407	mg/Kg	1	0.0407	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.61	mg/Kg	1	2.67	60	8.6 - 115
Phenol-d5		1.39	mg/Kg	1	2.67	52	6.3 - 124
Nitrobenzene-d5		1.85	mg/Kg	1	2.67	69	11.3 - 116
2-Fluorobiphenyl		1.84	mg/Kg	1	2.67	69	14.6 - 122
2,4,6-Tribromophenol		2.20	mg/Kg	1	2.67	82	13.8 - 123
Terphenyl-d14		2.08	mg/Kg	1	2.67	78	30.8 - 134

Sample: 216586 - HLSF-LAGN2-SL-01-1209

Laboratory: Lubbock

Analysis: Total 8 Metals	Analytical Method: S 7471 B	Prep Method: N/A
QC Batch: 65947	Date Analyzed: 2009-12-11	Analyzed By: TP
Prep Batch: 56360	Sample Preparation: 2009-12-11	Prepared By: TP
Laboratory: Lubbock		
Analysis: Total 8 Metals	Analytical Method: S 6010B	Prep Method: S 3050B
QC Batch: 65954	Date Analyzed: 2009-12-14	Analyzed By: RR
Prep Batch: 56340	Sample Preparation: 2009-12-11	Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	<0.0977	<0.369	<0.0977	mg/Kg	1	0.0977	0.25	0.0662
Total Arsenic	U	<0.822	<2.95	<0.822	mg/Kg	1	0.822	2	0.557
Total Barium		59.5	59.5	<0.0803	mg/Kg	1	0.0803	1	0.0544
Total Cadmium	J	0.218	<0.295	<0.0402	mg/Kg	1	0.0402	0.2	0.0272
Total Chromium		4.04	4.04	<0.0859	mg/Kg	1	0.0859	0.5	0.0582
Total Mercury		0.133	0.133	<0.00314	mg/Kg	1	0.00314	0.025	0.00213
Total Lead	J	1.18	<1.48	<0.306	mg/Kg	1	0.306	1	0.207
Total Selenium	J	1.49	<2.95	<0.921	mg/Kg	1	0.921	2	0.624

Sample: 216587 - HLSF-LAGN2-SB-01-(1.5-2.0)

Laboratory: Lubbock			
Analysis: Moisture Content	Analytical Method: ASTM D 2216-05	Prep Method: N/A	
QC Batch: 66078	Date Analyzed: 2009-12-17	Analyzed By: KV	
Prep Batch: 56485	Sample Preparation: 2009-12-17	Prepared By: KV	

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		24.6	%	1	

Sample: 216587 - HLSF-LAGN2-SB-01-(1.5-2.0)

Laboratory: Lubbock			
Analysis: Semivolatiles WTS	Analytical Method: S 8270C	Prep Method: S 3550	
QC Batch: 66240	Date Analyzed: 2009-12-23	Analyzed By: MN	
Prep Batch: 56614	Sample Preparation: 2009-12-18	Prepared By: MN	

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Pyridine	U	<0.0845	<0.332	<0.0845	mg/Kg	1	0.0845	0.25	0.0637
N-Nitrosodimethylamine	U	<0.0407	<0.332	<0.0407	mg/Kg	1	0.0407	0.25	0.0307
2-Picoline	U	<0.0926	<0.332	<0.0926	mg/Kg	1	0.0926	0.25	0.0698
Methyl methanesulfonate	U	<0.0397	<0.332	<0.0397	mg/Kg	1	0.0397	0.25	0.0299
Ethyl methanesulfonate	U	<0.0517	<0.332	<0.0517	mg/Kg	1	0.0517	0.25	0.039
Phenol	U	<0.0799	<0.332	<0.0799	mg/Kg	1	0.0799	0.25	0.060225

continued ...

sample 216587 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Aniline	U	<0.0490	<0.332	<0.0490	mg/Kg	1	0.0490	0.25	0.0369
bis(2-chloroethyl)ether	U	<0.0540	<0.332	<0.0540	mg/Kg	1	0.0540	0.25	0.0407
2-Chlorophenol	U	<0.122	<0.332	<0.122	mg/Kg	1	0.122	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<0.0397	<0.332	<0.0397	mg/Kg	1	0.0397	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<0.0402	<0.332	<0.0402	mg/Kg	1	0.0402	0.25	0.0303
Benzyl alcohol	U	<0.0820	<0.332	<0.0820	mg/Kg	1	0.0820	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<0.0408	<0.332	<0.0408	mg/Kg	1	0.0408	0.25	0.0308
2-Methylphenol	U	<0.0669	<0.332	<0.0669	mg/Kg	1	0.0669	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<0.0361	<0.332	<0.0361	mg/Kg	1	0.0361	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<0.0463	<0.332	<0.0463	mg/Kg	1	0.0463	0.25	0.0349
Acetophenone	U	<0.0560	<0.332	<0.0560	mg/Kg	1	0.0560	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<0.0637	<0.332	<0.0637	mg/Kg	1	0.0637	0.25	0.048
Hexachloroethane	U	<0.0692	<0.332	<0.0692	mg/Kg	1	0.0692	0.25	0.0522
Nitrobenzene	U	<0.238	<0.332	<0.238	mg/Kg	1	0.238	0.25	0.1794
N-Nitrosopiperidine	U	<0.0470	<0.332	<0.0470	mg/Kg	1	0.0470	0.25	0.0354
Isophorone	U	<0.106	<0.332	<0.106	mg/Kg	1	0.106	0.25	0.0802
2-Nitrophenol	U	<0.0313	<0.332	<0.0313	mg/Kg	1	0.0313	0.25	0.0236
2,4-Dimethylphenol	U	<0.0552	<0.332	<0.0552	mg/Kg	1	0.0552	0.25	0.0416
bis(2-chloroethoxy)methane	U	<0.0650	<0.332	<0.0650	mg/Kg	1	0.0650	0.25	0.049
Benzoic acid	U	<0.182	<0.332	<0.182	mg/Kg	1	0.182	0.25	0.1374
2,4-Dichlorophenol	U	<0.172	<0.332	<0.172	mg/Kg	1	0.172	0.25	0.1297
1,2,4-Trichlorobenzene	U	<0.0394	<0.332	<0.0394	mg/Kg	1	0.0394	0.25	0.0297
a,a-Dimethylphenethylamine	U	<0.0707	<0.332	<0.0707	mg/Kg	1	0.0707	0.25	0.0533
Naphthalene	U	<0.0487	<0.332	<0.0487	mg/Kg	1	0.0487	0.25	0.0367
4-Chloroaniline	U	<0.0653	<0.332	<0.0653	mg/Kg	1	0.0653	0.25	0.0492
2,6-Dichlorophenol	U	<0.0484	<0.332	<0.0484	mg/Kg	1	0.0484	0.25	0.0365
Hexachlorobutadiene	U	<0.0483	<0.332	<0.0483	mg/Kg	1	0.0483	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<0.0679	<0.332	<0.0679	mg/Kg	1	0.0679	0.25	0.0512
4-Chloro-3-methylphenol	U	<0.0629	<0.332	<0.0629	mg/Kg	1	0.0629	0.25	0.0474
1-Methylnaphthalene	U	<0.0553	<0.332	<0.0553	mg/Kg	1	0.0553	0.25	0.0417
2-Methylnaphthalene	U	<0.0449	<0.332	<0.0449	mg/Kg	1	0.0449	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<0.0398	<0.332	<0.0398	mg/Kg	1	0.0398	0.25	0.03
Hexachlorocyclopentadiene	U	<0.0467	<0.332	<0.0467	mg/Kg	1	0.0467	0.25	0.0352
2,4,6-Trichlorophenol	U	<0.0446	<0.332	<0.0446	mg/Kg	1	0.0446	0.25	0.0336
2,4,5-Trichlorophenol	U	<0.0535	<0.332	<0.0535	mg/Kg	1	0.0535	0.25	0.0403
2-Chloronaphthalene	U	<0.0353	<0.332	<0.0353	mg/Kg	1	0.0353	0.25	0.0266
1-Chloronaphthalene	U	<0.0349	<0.332	<0.0349	mg/Kg	1	0.0349	0.25	0.0263
2-Nitroaniline	U	<0.0385	<0.332	<0.0385	mg/Kg	1	0.0385	0.25	0.029
Dimethylphthalate	U	<0.0385	<0.332	<0.0385	mg/Kg	1	0.0385	0.25	0.029
Acenaphthylene	U	<0.0864	<0.332	<0.0864	mg/Kg	1	0.0864	0.25	0.0651
2,6-Dinitrotoluene	U	<0.0710	<0.332	<0.0710	mg/Kg	1	0.0710	0.25	0.0535
3-Nitroaniline	U	<0.0558	<0.332	<0.0558	mg/Kg	1	0.0558	0.25	0.0421
Acenaphthene	U	<0.0988	<0.332	<0.0988	mg/Kg	1	0.0988	0.25	0.0745
2,4-Dinitrophenol	U	<0.114	<0.332	<0.114	mg/Kg	1	0.114	0.25	0.086
Dibenzofuran	U	<0.0363	<0.332	<0.0363	mg/Kg	1	0.0363	0.25	0.0274

continued ...

sample 216587 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Pentachlorobenzene	U	<0.0525	<0.332	<0.0525	mg/Kg	1	0.0525	0.25	0.0396
4-Nitrophenol	U	<0.224	<0.332	<0.224	mg/Kg	1	0.224	0.25	0.1686
1-Naphthylamine	U	<0.0403	<0.332	<0.0403	mg/Kg	1	0.0403	0.25	0.0304
2,4-Dinitrotoluene	U	<0.0808	<0.332	<0.0808	mg/Kg	1	0.0808	0.25	0.0609
2-Naphthylamine	U	<0.202	<0.332	<0.202	mg/Kg	1	0.202	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<0.0536	<0.332	<0.0536	mg/Kg	1	0.0536	0.25	0.0404
Fluorene	U	<0.0577	<0.332	<0.0577	mg/Kg	1	0.0577	0.25	0.0435
Diethylphthalate	U	<0.0533	<0.332	<0.0533	mg/Kg	1	0.0533	0.25	0.0402
4-Chlorophenyl-phenylether	U	<0.0458	<0.332	<0.0458	mg/Kg	1	0.0458	0.25	0.0345
4-Nitroaniline	U	<0.0233	<0.332	<0.0233	mg/Kg	1	0.0233	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<0.438	<0.332	<0.438	mg/Kg	1	0.438	0.25	0.33
Diphenylamine	U	<0.0625	<0.332	<0.0625	mg/Kg	1	0.0625	0.25	0.0471
Diphenylhydrazine	U	<0.0850	<0.332	<0.0850	mg/Kg	1	0.0850	0.25	0.0641
4-Bromophenyl-phenylether	U	<0.0411	<0.332	<0.0411	mg/Kg	1	0.0411	0.25	0.031
Phenacetin	U	<0.0456	<0.332	<0.0456	mg/Kg	1	0.0456	0.25	0.0344
Hexachlorobenzene	U	<0.0406	<0.332	<0.0406	mg/Kg	1	0.0406	0.25	0.0306
4-Aminobiphenyl	U	<0.170	<0.332	<0.170	mg/Kg	1	0.170	0.25	0.128
Pentachlorophenol	U	<0.200	<0.332	<0.200	mg/Kg	1	0.200	0.25	0.1509
Pentachloronitrobenzene	U	<0.103	<0.332	<0.103	mg/Kg	1	0.103	0.25	0.0775
Pronamide	U	<0.0352	<0.332	<0.0352	mg/Kg	1	0.0352	0.25	0.0265
Phenanthrene	U	<0.0978	<0.332	<0.0978	mg/Kg	1	0.0978	0.25	0.0737
Anthracene	U	<0.0501	<0.332	<0.0501	mg/Kg	1	0.0501	0.25	0.0378
Di-n-butylphthalate	U	<0.0398	<0.332	<0.0398	mg/Kg	1	0.0398	0.25	0.02997
Fluoranthene	U	<0.0459	<0.332	<0.0459	mg/Kg	1	0.0459	0.25	0.0346
Benzidine	U	<0.151	<0.332	<0.151	mg/Kg	1	0.151	0.25	0.1138
Pyrene	U	<0.200	<0.332	<0.200	mg/Kg	1	0.200	0.25	0.1507
p-Dimethylaminoazobenzene	U	<0.0395	<0.332	<0.0395	mg/Kg	1	0.0395	0.25	0.0298
Butylbenzylphthalate	U	<0.0781	<0.332	<0.0781	mg/Kg	1	0.0781	0.25	0.0589
Benzo(a)anthracene	U	<0.0595	<0.332	<0.0595	mg/Kg	1	0.0595	0.25	0.04486
3,3-Dichlorobenzidine	U	<0.214	<0.332	<0.214	mg/Kg	1	0.214	0.25	0.1616
Chrysene	U	<0.0474	<0.332	<0.0474	mg/Kg	1	0.0474	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<0.107	<0.332	<0.107	mg/Kg	1	0.107	0.25	0.0805
Di-n-octylphthalate	U	<0.0523	<0.332	<0.0523	mg/Kg	1	0.0523	0.25	0.0394
Benzo(b)fluoranthene	U	<0.0854	<0.332	<0.0854	mg/Kg	1	0.0854	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<0.0472	<0.332	<0.0472	mg/Kg	1	0.0472	0.25	0.0356
Benzo(k)fluoranthene	U	<0.0616	<0.332	<0.0616	mg/Kg	1	0.0616	0.25	0.0464
Benzo(a)pyrene	U	<0.0463	<0.332	<0.0463	mg/Kg	1	0.0463	0.25	0.03489
3-Methylcholanthrene	U	<0.0983	<0.332	<0.0983	mg/Kg	1	0.0983	0.25	0.0741
Dibenzo(a,i)acridine	U	<0.0385	<0.332	<0.0385	mg/Kg	1	0.0385	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<0.0381	<0.332	<0.0381	mg/Kg	1	0.0381	0.25	0.0287
Dibenzo(a,h)anthracene	U	<0.0594	<0.332	<0.0594	mg/Kg	1	0.0594	0.25	0.04478
Benzo(g,h,i)perylene	U	<0.0366	<0.332	<0.0366	mg/Kg	1	0.0366	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		1.19	mg/Kg	1	2.67	44	8.6 - 115
Phenol-d5		0.900	mg/Kg	1	2.67	34	6.3 - 124
Nitrobenzene-d5		1.15	mg/Kg	1	2.67	43	11.3 - 116
2-Fluorobiphenyl		1.24	mg/Kg	1	2.67	46	14.6 - 122
2,4,6-Tribromophenol		1.47	mg/Kg	1	2.67	55	13.8 - 123
Terphenyl-d14		1.36	mg/Kg	1	2.67	51	30.8 - 134

Sample: 216587 - HLSF-LAGN2-SB-01-(1.5-2.0)

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 65949 Date Analyzed: 2009-12-11 Analyzed By: TP
 Prep Batch: 56360 Sample Preparation: 2009-12-11 Prepared By: TP
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010B Prep Method: S 3050B
 QC Batch: 65954 Date Analyzed: 2009-12-14 Analyzed By: RR
 Prep Batch: 56340 Sample Preparation: 2009-12-11 Prepared By: KV

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Silver	U	<0.0878	<0.332	<0.0878	mg/Kg	1	0.0878	0.25	0.0662
Total Arsenic	U	<0.739	<2.65	<0.739	mg/Kg	1	0.739	2	0.557
Total Barium		41.0	41.0	<0.0722	mg/Kg	1	0.0722	1	0.0544
Total Cadmium	U	<0.0361	<0.265	<0.0361	mg/Kg	1	0.0361	0.2	0.0272
Total Chromium		4.66	4.66	<0.0772	mg/Kg	1	0.0772	0.5	0.0582
Total Mercury	U	<0.00282	<0.0332	<0.00282	mg/Kg	1	0.00282	0.025	0.00213
Total Lead	U	<0.275	<1.33	<0.275	mg/Kg	1	0.275	1	0.207
Total Selenium	U	<0.828	<2.65	<0.828	mg/Kg	1	0.828	2	0.624

Sample: 216588 - HLSF-LAGN2-SB-105-(0.3-0.9)

Laboratory: Lubbock
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 66078 Date Analyzed: 2009-12-17 Analyzed By: KV
 Prep Batch: 56485 Sample Preparation: 2009-12-17 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		27.4	%	1	

Sample: 216588 - HLSF-LAGN2-SB-105-(0.3-0.9)

Laboratory: Lubbock

Analysis: Semivolatiles WTS Analytical Method: S 8270C Prep Method: S 3550
 QC Batch: 66240 Date Analyzed: 2009-12-23 Analyzed By: MN
 Prep Batch: 56614 Sample Preparation: 2009-12-18 Prepared By: MN

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Pyridine	U	<0.0877	<0.344	<0.0877	mg/Kg	1	0.0877	0.25	0.0637
N-Nitrosodimethylamine	U	<0.0423	<0.344	<0.0423	mg/Kg	1	0.0423	0.25	0.0307
2-Picoline	U	<0.0961	<0.344	<0.0961	mg/Kg	1	0.0961	0.25	0.0698
Methyl methanesulfonate	U	<0.0412	<0.344	<0.0412	mg/Kg	1	0.0412	0.25	0.0299
Ethyl methanesulfonate	U	<0.0537	<0.344	<0.0537	mg/Kg	1	0.0537	0.25	0.039
Phenol	U	<0.0829	<0.344	<0.0829	mg/Kg	1	0.0829	0.25	0.060225
Aniline	U	<0.0508	<0.344	<0.0508	mg/Kg	1	0.0508	0.25	0.0369
bis(2-chloroethyl)ether	U	<0.0560	<0.344	<0.0560	mg/Kg	1	0.0560	0.25	0.0407
2-Chlorophenol	U	<0.127	<0.344	<0.127	mg/Kg	1	0.127	0.25	0.0923
1,3-Dichlorobenzene (meta)	U	<0.0412	<0.344	<0.0412	mg/Kg	1	0.0412	0.25	0.0299
1,4-Dichlorobenzene (para)	U	<0.0417	<0.344	<0.0417	mg/Kg	1	0.0417	0.25	0.0303
Benzyl alcohol	U	<0.0851	<0.344	<0.0851	mg/Kg	1	0.0851	0.25	0.0618
1,2-Dichlorobenzene (ortho)	U	<0.0424	<0.344	<0.0424	mg/Kg	1	0.0424	0.25	0.0308
2-Methylphenol	U	<0.0694	<0.344	<0.0694	mg/Kg	1	0.0694	0.25	0.0504
bis(2-chloroisopropyl)ether	U	<0.0374	<0.344	<0.0374	mg/Kg	1	0.0374	0.25	0.0272
4-Methylphenol / 3-Methylphenol	U	<0.0480	<0.344	<0.0480	mg/Kg	1	0.0480	0.25	0.0349
Acetophenone	U	<0.0581	<0.344	<0.0581	mg/Kg	1	0.0581	0.25	0.0422
N-Nitrosodi-n-propylamine	U	<0.0661	<0.344	<0.0661	mg/Kg	1	0.0661	0.25	0.048
Hexachloroethane	U	<0.0719	<0.344	<0.0719	mg/Kg	1	0.0719	0.25	0.0522
Nitrobenzene	U	<0.247	<0.344	<0.247	mg/Kg	1	0.247	0.25	0.1794
N-Nitrosopiperidine	U	<0.0487	<0.344	<0.0487	mg/Kg	1	0.0487	0.25	0.0354
Isophorone	U	<0.110	<0.344	<0.110	mg/Kg	1	0.110	0.25	0.0802
2-Nitrophenol	U	<0.0325	<0.344	<0.0325	mg/Kg	1	0.0325	0.25	0.0236
2,4-Dimethylphenol	U	<0.0573	<0.344	<0.0573	mg/Kg	1	0.0573	0.25	0.0416
bis(2-chloroethoxy)methane	U	<0.0675	<0.344	<0.0675	mg/Kg	1	0.0675	0.25	0.049
Benzoic acid	U	<0.189	<0.344	<0.189	mg/Kg	1	0.189	0.25	0.1374
2,4-Dichlorophenol	U	<0.179	<0.344	<0.179	mg/Kg	1	0.179	0.25	0.1297
1,2,4-Trichlorobenzene	U	<0.0409	<0.344	<0.0409	mg/Kg	1	0.0409	0.25	0.0297
a,a-Dimethylphenethylamine	U	<0.0734	<0.344	<0.0734	mg/Kg	1	0.0734	0.25	0.0533
Naphthalene	U	<0.0505	<0.344	<0.0505	mg/Kg	1	0.0505	0.25	0.0367
4-Chloroaniline	U	<0.0677	<0.344	<0.0677	mg/Kg	1	0.0677	0.25	0.0492
2,6-Dichlorophenol	U	<0.0503	<0.344	<0.0503	mg/Kg	1	0.0503	0.25	0.0365
Hexachlorobutadiene	U	<0.0501	<0.344	<0.0501	mg/Kg	1	0.0501	0.25	0.0364
N-Nitroso-di-n-butylamine	U	<0.0705	<0.344	<0.0705	mg/Kg	1	0.0705	0.25	0.0512
4-Chloro-3-methylphenol	U	<0.0653	<0.344	<0.0653	mg/Kg	1	0.0653	0.25	0.0474
1-Methylnaphthalene	U	<0.0574	<0.344	<0.0574	mg/Kg	1	0.0574	0.25	0.0417
2-Methylnaphthalene	U	<0.0466	<0.344	<0.0466	mg/Kg	1	0.0466	0.25	0.03386
1,2,4,5-Tetrachlorobenzene	U	<0.0413	<0.344	<0.0413	mg/Kg	1	0.0413	0.25	0.03
Hexachlorocyclopentadiene	U	<0.0485	<0.344	<0.0485	mg/Kg	1	0.0485	0.25	0.0352
2,4,6-Trichlorophenol	U	<0.0463	<0.344	<0.0463	mg/Kg	1	0.0463	0.25	0.0336
2,4,5-Trichlorophenol	U	<0.0555	<0.344	<0.0555	mg/Kg	1	0.0555	0.25	0.0403
2-Chloronaphthalene	U	<0.0366	<0.344	<0.0366	mg/Kg	1	0.0366	0.25	0.0266
1-Chloronaphthalene	U	<0.0362	<0.344	<0.0362	mg/Kg	1	0.0362	0.25	0.0263

continued ...

sample 216588 continued ...

Parameter	Flag	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
		Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
2-Nitroaniline	R U	<0.0399	<0.344	<0.0399	mg/Kg	1	0.0399	0.25	0.029
Dimethylphthalate	U	<0.0399	<0.344	<0.0399	mg/Kg	1	0.0399	0.25	0.029
Acenaphthylene	U	<0.0896	<0.344	<0.0896	mg/Kg	1	0.0896	0.25	0.0651
2,6-Dinitrotoluene	U	<0.0737	<0.344	<0.0737	mg/Kg	1	0.0737	0.25	0.0535
3-Nitroaniline	U	<0.0580	<0.344	<0.0580	mg/Kg	1	0.0580	0.25	0.0421
Acenaphthene	U	<0.102	<0.344	<0.102	mg/Kg	1	0.102	0.25	0.0745
2,4-Dinitrophenol	U	<0.118	<0.344	<0.118	mg/Kg	1	0.118	0.25	0.086
Dibenzofuran	U	<0.0377	<0.344	<0.0377	mg/Kg	1	0.0377	0.25	0.0274
Pentachlorobenzene	U	<0.0545	<0.344	<0.0545	mg/Kg	1	0.0545	0.25	0.0396
4-Nitrophenol	U	<0.232	<0.344	<0.232	mg/Kg	1	0.232	0.25	0.1686
1-Naphthylamine	U	<0.0419	<0.344	<0.0419	mg/Kg	1	0.0419	0.25	0.0304
2,4-Dinitrotoluene	U	<0.0839	<0.344	<0.0839	mg/Kg	1	0.0839	0.25	0.0609
2-Naphthylamine	U	<0.210	<0.344	<0.210	mg/Kg	1	0.210	0.25	0.1527
2,3,4,6-Tetrachlorophenol	U	<0.0556	<0.344	<0.0556	mg/Kg	1	0.0556	0.25	0.0404
Fluorene	U	<0.0599	<0.344	<0.0599	mg/Kg	1	0.0599	0.25	0.0435
Diethylphthalate	U	<0.0554	<0.344	<0.0554	mg/Kg	1	0.0554	0.25	0.0402
4-Chlorophenyl-phenylether	U	<0.0475	<0.344	<0.0475	mg/Kg	1	0.0475	0.25	0.0345
4-Nitroaniline	U	<0.0242	<0.344	<0.0242	mg/Kg	1	0.0242	0.25	0.0176
4,6-Dinitro-2-methylphenol	U	<0.454	<0.344	<0.454	mg/Kg	1	0.454	0.25	0.33
Diphenylamine	U	<0.0648	<0.344	<0.0648	mg/Kg	1	0.0648	0.25	0.0471
Diphenylhydrazine	U	<0.0883	<0.344	<0.0883	mg/Kg	1	0.0883	0.25	0.0641
4-Bromophenyl-phenylether	U	<0.0427	<0.344	<0.0427	mg/Kg	1	0.0427	0.25	0.031
Phenacetin	U	<0.0474	<0.344	<0.0474	mg/Kg	1	0.0474	0.25	0.0344
Hexachlorobenzene	U	<0.0421	<0.344	<0.0421	mg/Kg	1	0.0421	0.25	0.0306
4-Aminobiphenyl	U	<0.176	<0.344	<0.176	mg/Kg	1	0.176	0.25	0.128
Pentachlorophenol	U	<0.208	<0.344	<0.208	mg/Kg	1	0.208	0.25	0.1509
Pentachloronitrobenzene	U	<0.107	<0.344	<0.107	mg/Kg	1	0.107	0.25	0.0775
Pronamide	U	<0.0365	<0.344	<0.0365	mg/Kg	1	0.0365	0.25	0.0265
Phenanthrene	U	<0.101	<0.344	<0.101	mg/Kg	1	0.101	0.25	0.0737
Anthracene	U	<0.0520	<0.344	<0.0520	mg/Kg	1	0.0520	0.25	0.0378
Di-n-butylphthalate	U	<0.0413	<0.344	<0.0413	mg/Kg	1	0.0413	0.25	0.02997
Fluoranthene	U	<0.0476	<0.344	<0.0476	mg/Kg	1	0.0476	0.25	0.0346
Benzidine	U	<0.157	<0.344	<0.157	mg/Kg	1	0.157	0.25	0.1138
Pyrene	U	<0.208	<0.344	<0.208	mg/Kg	1	0.208	0.25	0.1507
p-Dimethylaminoazobenzene	U	<0.0410	<0.344	<0.0410	mg/Kg	1	0.0410	0.25	0.0298
Butylbenzylphthalate	U	<0.0811	<0.344	<0.0811	mg/Kg	1	0.0811	0.25	0.0589
Benzo(a)anthracene	U	<0.0618	<0.344	<0.0618	mg/Kg	1	0.0618	0.25	0.04486
3,3-Dichlorobenzidine	U	<0.222	<0.344	<0.222	mg/Kg	1	0.222	0.25	0.1616
Chrysene	U	<0.0492	<0.344	<0.0492	mg/Kg	1	0.0492	0.25	0.0357
bis(2-ethylhexyl)phthalate	U	<0.111	<0.344	<0.111	mg/Kg	1	0.111	0.25	0.0805
Di-n-octylphthalate	U	<0.0542	<0.344	<0.0542	mg/Kg	1	0.0542	0.25	0.0394
Benzo(b)fluoranthene	U	<0.0887	<0.344	<0.0887	mg/Kg	1	0.0887	0.25	0.0644
7,12-Dimethylbenz(a)anthracene	U	<0.0490	<0.344	<0.0490	mg/Kg	1	0.0490	0.25	0.0356
Benzo(k)fluoranthene	U	<0.0639	<0.344	<0.0639	mg/Kg	1	0.0639	0.25	0.0464
Benzo(a)pyrene	R U	<0.0480	<0.344	<0.0480	mg/Kg	1	0.0480	0.25	0.03489

continued ...

sample 216588 continued ...

Parameter	Flag	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
		Based	Based	Blank				(Unadjusted)	(Unadjusted)
3-Methylcholanthrene	R	<0.102	<0.344	<0.102	mg/Kg	1	0.102	0.25	0.0741
Dibenzo(a,j)acridine	U	<0.0399	<0.344	<0.0399	mg/Kg	1	0.0399	0.25	0.029
Indeno(1,2,3-cd)pyrene	U	<0.0395	<0.344	<0.0395	mg/Kg	1	0.0395	0.25	0.0287
Dibenzo(a,h)anthracene	U	<0.0617	<0.344	<0.0617	mg/Kg	1	0.0617	0.25	0.04478
Benzo(g,h,i)perylene	R	<0.0380	<0.344	<0.0380	mg/Kg	1	0.0380	0.25	0.0276

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	¹²	0.130	mg/Kg	1	2.67	5	8.6 - 115
Phenol-d5		0.370	mg/Kg	1	2.67	14	6.3 - 124
Nitrobenzene-d5	¹³	0.0700	mg/Kg	1	2.67	3	11.3 - 116
2-Fluorobiphenyl		0.510	mg/Kg	1	2.67	19	14.6 - 122
2,4,6-Tribromophenol		1.75	mg/Kg	1	2.67	66	13.8 - 123
Terphenyl-d14		1.73	mg/Kg	1	2.67	65	30.8 - 134

Sample: 216588 - HLSF-LAGN2-SB-105-(0.3-0.9)

Laboratory:	Lubbock						
Analysis:	Total 8 Metals	Analytical Method:	S 7471 B	Prep Method:	N/A		
QC Batch:	65949	Date Analyzed:	2009-12-11	Analyzed By:	TP		
Prep Batch:	56360	Sample Preparation:	2009-12-11	Prepared By:	TP		
Laboratory:	Lubbock						
Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3050B		
QC Batch:	65955	Date Analyzed:	2009-12-14	Analyzed By:	RR		
Prep Batch:	56340	Sample Preparation:	2009-12-11	Prepared By:	KV		

Parameter	Flag	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
		Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Silver	U	<0.0912	<0.344	<0.0912	mg/Kg	1	0.0912	0.25	0.0662
Total Arsenic	U	<0.767	<2.75	<0.767	mg/Kg	1	0.767	2	0.557
Total Barium		32.6	32.6	<0.0749	mg/Kg	1	0.0749	1	0.0544
Total Cadmium	U	<0.0374	<0.275	<0.0374	mg/Kg	1	0.0374	0.2	0.0272
Total Chromium		2.95	2.95	<0.0801	mg/Kg	1	0.0801	0.5	0.0582
Total Mercury	U	<0.00293	<0.0344	<0.00293	mg/Kg	1	0.00293	0.025	0.00213
Total Lead	U	<0.285	<1.38	<0.285	mg/Kg	1	0.285	1	0.207
Total Selenium	U	<0.859	<2.75	<0.859	mg/Kg	1	0.859	2	0.624

¹²8270 Only - One acidic surrogate is out of control limits. The other two acidic surrogates show extraction was performed properly.

¹³8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.