April 02, 2012

Brad Davis
Zia Engineering & Environmental
755 S Telshor Blvd Ste F-201
Las Cruces, NM 88011
TEL: (575) 993-6824
FAX (575) 532-1587

Order No.: 1203193

RE: HELSTF TSA

Dear Brad Davis:

DHL Analytical received 2 sample(s) on 3/21/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

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zia engineering & environmental consultants, llc
755 S. Telshor Blvd. Ste. F-201
Las Cruces, NM 88011
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#1203193

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.

PROJECT NAME: HELSTF TSA

SAMPLER'S SIGNATURE: Bradley T. Davis

	DATE	TIME	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: benzene	toluene	ethylbenzene	xylenes	MTBE						REMARKS
01	3-20-12	1035	HTSA-0197-HMW-TB-2-0312	Water		2	X	X	X	X	X						trip blank
02	3-20-12	1035	HTSA-0197-HMW-052-0312	Water		3	X	X	X	X	X						

PROJECT INFORMATION	SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LAB: (SIGNATURE)
PROJECT MANAGER: Brad Davis	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Bradley T. Davis 3-20-12 1700	(PRINTED NAME) 3/21/12 1115	(PRINTED NAME)
SHIPPING ID NO.	CHAIN OF CUSTODY SEALS	yes	RECEIVED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	(COMPANY)
VIA: FedEX	GOOD CONDITION/CHILLED	23	(TIME/DATE) 3/20/12 1700	(TIME/DATE) 3/21/12 1115	(TIME/DATE)
	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS/COMMENTS:		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

From: (505) 532-1526
Zia Engineering

755 S. Telshor Blvd.
Suite Q-201
Las Cruces, NM 88011

Origin ID: LRUA

FedEx Express

J12101112190225

Ship Date: 20MAR12
ActWgt: 60.0 LB
CAD: 102287640/INET3250

Delivery Address Bar Code

SHIP TO: (512) 388-8222 BILL SENDER
John Dupont
DHL Analytical
2300 DOUBLE CREEK DR

ROUND ROCK, TX 78664

Ref # LCS-09-015
Invoice #
PO #
Dept #

WED - 21 MAR A1
PRIORITY OVERNIGHT

TRK# 0201 7933 6039 0452

XH BSMA

78664
TX-US
AUS

512G1/81D5/A278

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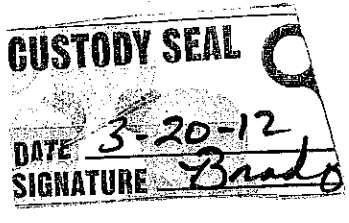

DHL Analytical

Sample Receipt Checklist

Client Name **Zia Engineering & Environmental** Date Received: **3/21/2012**

Work Order Number **1203193** Received by **JB**

Checklist completed by:  3/21/2012
Signature Date

Reviewed by JS 3/21/2012
Initials Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	**2.3** °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: HELSTF TSA	**Date: 4/2/2012**
Reviewer Name: Angie O'Donnell	**Laboratory Work Order: 1203193**
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	**X**				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			**X**		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	**X**				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	**X**				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	**X**				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	**X**				
		3) Were calculations checked by a peer or supervisor?	**X**				
		4) Were all analyte identifications checked by a peer or supervisor?	**X**				
		5) Were sample quantitation limits reported for all analytes not detected?	**X**				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			**X**		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			**X**		
		8) If required for the project, TICs reported?			**X**		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	**X**				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	**X**				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	**X**				
		2) Were blanks analyzed at the appropriate frequency?	**X**				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	**X**				
		4) Were blank concentrations < MQL?	**X**				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	**X**				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	**X**				
		3) Were LCSs analyzed at the required frequency?	**X**				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	**X**				
		6) Was the LCSD RPD within QC limits (if applicable)?			**X**		
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	**X**				
		2) Were MS/MSD analyzed at the appropriate frequency?	**X**				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		4) Were MS/MSD RPDs within laboratory QC limits?	**X**				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			**X**		
		2) Were analytical duplicates analyzed at the appropriate frequency?			**X**		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			**X**		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	**X**				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	**X**				
		3) Are unadjusted MQLs included in the laboratory data package?	**X**				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	**X**				
		2) Were all necessary corrective actions performed for the reported data?	**X**				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	**X**				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: HELSTF TSA	**Date: 4/2/2012**
Reviewer Name: Angie O'Donnell	**Laboratory Work Order: 1203193**

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	**X**				
		2) Were percent RSDs or correlation coefficient criteria met?	**X**				
		3) Was the number of standards recommended in the method used for all analytes?	**X**				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	**X**				
		5) Are ICAL data available for all instruments used?	**X**				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	**X**				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB)**					
		1) Was the CCV analyzed at the method-required frequency?	**X**				
		2) Were percent differences for each analyte within the method-required QC limits?	**X**				
		3) Was the ICAL curve verified for each analyte?	**X**				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			**X**		
S3	O	**Mass Spectral Tuning**					
		1) Was the appropriate compound for the method used for tuning?	**X**				
		2) Were ion abundance data within the method-required QC limits?	**X**				
S4	O	**Internal Standards (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	**X**				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	**X**				
		2) Were data associated with manual integrations flagged on the raw data?	**X**				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			**X**		
S7	O	**Tentatively Identified Compounds (TICs)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			**X**		
S8	I	**Interference Check Sample (ICS) Results**					
		1) Were percent recoveries within method QC limits?			**X**		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			**X**		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	**X**				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	**X**				
S11	OI	**Proficiency Test Reports**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	**X**				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	**X**				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	**X**				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	**X**				
		2) Is documentation of the analyst's competency up-to-date and on file?	**X**				
S15	OI	**Verification/Validation Documentation for Methods (NELAC Chap 5)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	**X**				
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**					
		1) Are laboratory SOPs current and on file for each method performed?	**X**				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC 5.13
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) the amount of analyte measured in the duplicate,
  b) the calculated RPD, and
  c) the laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

John DuPont – General Manager

Scott Schroeder – Technical Director

Signature

04/02/12

Date

DHL Analytical

Date: *02-Apr-12*

CLIENT: Zia Engineering & Environmental
Project: HELSTF TSA
Lab Order: 1203193

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Method SW8260C - Volatile Organics

Exception Report R1-01

The samples were received and log-in performed on 3/21/2012. A total of 2 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

A summary of project communication follows:

DHL Analytical received the Project RFQ from the client on 12/29/09. Completed RFQ returned to client via email on 1/07/2010. Purchase Order/Terms and Conditions received and signed and approved by both parties on 01/25/2010.

Brad Davis of Zia requested a bottle kit via email from Jennifer Barker of DHL on 2/16/2012. A DHL BottleKit #3136 sent on 2/20/2012 via Lonestar Overnight, to arrive by 2/22/2012.

This sample delivery group arrived at DHL Analytical 3/21/12. Sample summary sent via email from Log-in to client on 3/21/12.
All hardcopies for the sample kit request, bill of lading for sample kit sent and login summary are kept in project folder.

DHL Analytical

Date: *02-Apr-12*

CLIENT: Zia Engineering & Environmental
Project: HELSTF TSA
Lab Order: 1203193

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1203193-01	HTSA-0197-HMW-TB-2-0312		03/20/12 10:35 AM	3/21/2012
1203193-02	HTSA-0197-HMW-052-0312		03/20/12 10:35 AM	3/21/2012

Lab Order: 1203193
Client: Zia Engineering & Environmental
Project: HELSTF TSA

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1203193-01A	HTSA-0197-HMW-TB-2-0312	03/20/12 10:35 AM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	03/23/12 09:59 AM	51105
1203193-02A	HTSA-0197-HMW-052-0312	03/20/12 10:35 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/23/12 09:59 AM	51105

Lab Order: 1203193
Client: Zia Engineering & Environmental
Project: HELSTF TSA

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1203193-01A	HTSA-0197-HMW-TB-2-0312	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	51105	1	03/23/12 04:51 PM	GCMS7_120323A
1203193-02A	HTSA-0197-HMW-052-0312	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	51105	1	03/23/12 05:16 PM	GCMS7_120323A

DHL Analytical

Date: *02-Apr-12*

CLIENT:	Zia Engineering & Environmental	**Client Sample ID:**	HTSA-0197-HMW-TB-2-0312
Project:	HELSTF TSA	**Lab ID:**	1203193-01
Project No:		**Collection Date:**	03/20/12 10:35 AM
Lab Order:	1203193	**Matrix:**	TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:51 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:51 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:51 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:51 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:51 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:51 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-120		%REC	1	03/23/12 04:51 PM
Surr: 4-Bromofluorobenzene	106	0	75-120		%REC	1	03/23/12 04:51 PM
Surr: Dibromofluoromethane	100	0	85-115		%REC	1	03/23/12 04:51 PM
Surr: Toluene-d8	101	0	85-120		%REC	1	03/23/12 04:51 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical

Date: *02-Apr-12*

CLIENT:	Zia Engineering & Environmental	**Client Sample ID:**	HTSA-0197-HMW-052-0312
Project:	HELSTF TSA	**Lab ID:**	1203193-02
Project No:		**Collection Date:**	03/20/12 10:35 AM
Lab Order:	1203193	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Methyl tert-butyl ether	0.0103	0.000300	0.00100		mg/L	1	03/23/12 05:16 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 05:16 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 05:16 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 05:16 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 05:16 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 05:16 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-120		%REC	1	03/23/12 05:16 PM
Surr: 4-Bromofluorobenzene	107	0	75-120		%REC	1	03/23/12 05:16 PM
Surr: Dibromofluoromethane	98.9	0	85-115		%REC	1	03/23/12 05:16 PM
Surr: Toluene-d8	102	0	85-120		%REC	1	03/23/12 05:16 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
C	Sample Result or QC discussed in the Case Narrative
E	TPH pattern not Gas or Diesel Range Pattern
MDL	Method Detection Limit
RL	Reporting Limit
N	Parameter not NELAC certified
B	Analyte detected in the associated Method Blank
DF	Dilution Factor
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
S	Spike Recovery outside control limits

CLIENT: Zia Engineering & Environmental
Work Order: 1203193
Project: HELSTF TSA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

The QC data in batch 51105 applies to the folowing samples: 1203193-01A, 1203193-02A

Sample ID: **LCS-51105** Batch ID: **51105** TestNo: **SW8260C** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_120323A** Analysis Date: **3/23/2012 10:15:00 AM** Prep Date: **3/23/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0212	0.00100	0.0232	0	91.3	80	120			
Ethylbenzene	0.0226	0.00100	0.0232	0	97.4	75	125			
m,p-Xylene	0.0465	0.00200	0.0464	0	100	75	130			
Methyl tert-butyl ether	0.0256	0.00100	0.0232	0	110	65	125			
o-Xylene	0.0229	0.00100	0.0232	0	98.5	80	120			
Toluene	0.0208	0.00200	0.0232	0	89.6	75	120			
Surr: 1,2-Dichloroethane-d4	202		200.0		101	70	120			
Surr: 4-Bromofluorobenzene	210		200.0		105	75	120			
Surr: Dibromofluoromethane	197		200.0		98.4	85	115			
Surr: Toluene-d8	209		200.0		104	85	120			

Sample ID: **MB-51105** Batch ID: **51105** TestNo: **SW8260C** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_120323A** Analysis Date: **3/23/2012 10:40:00 AM** Prep Date: **3/23/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000200	0.00100								
Ethylbenzene	<0.000300	0.00100								
m,p-Xylene	<0.000600	0.00200								
Methyl tert-butyl ether	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
Toluene	<0.000600	0.00200								
Surr: 1,2-Dichloroethane-d4	217		200.0		109	70	120			
Surr: 4-Bromofluorobenzene	202		200.0		101	75	120			
Surr: Dibromofluoromethane	218		200.0		109	85	115			
Surr: Toluene-d8	199		200.0		99.6	85	120			

Sample ID: **1203208-05AMS** Batch ID: **51105** TestNo: **SW8260C** Units: **mg/L**
SampType: **MS** Run ID: **GCMS7_120323A** Analysis Date: **3/23/2012 1:36:00 PM** Prep Date: **3/23/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0218	0.00100	0.0232	0	93.9	80	120			
Ethylbenzene	0.0221	0.00100	0.0232	0	95.2	75	125			
m,p-Xylene	0.0472	0.00200	0.0464	0	102	75	130			
Methyl tert-butyl ether	0.0222	0.00100	0.0232	0	95.7	65	125			
o-Xylene	0.0232	0.00100	0.0232	0	99.8	80	120			
Toluene	0.0203	0.00200	0.0232	0	87.3	75	120			
Surr: 1,2-Dichloroethane-d4	214		200.0		107	70	120			
Surr: 4-Bromofluorobenzene	212		200.0		106	75	120			
Surr: Dibromofluoromethane	208		200.0		104	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203193
Project: HELSTF TSA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: **1203208-05AMS**	Batch ID: **51105**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS7_120323A**	Analysis Date: **3/23/2012 1:36:00 PM**	Prep Date: **3/23/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Toluene-d8	208		200.0		104	85	120			

Sample ID: **1203208-05AMSD**	Batch ID: **51105**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS7_120323A**	Analysis Date: **3/23/2012 2:01:00 PM**	Prep Date: **3/23/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0195	0.00100	0.0232	0	84.2	80	120	10.9	30	
Ethylbenzene	0.0207	0.00100	0.0232	0	89.4	75	125	6.31	30	
m,p-Xylene	0.0421	0.00200	0.0464	0	90.7	75	130	11.5	30	
Methyl tert-butyl ether	0.0195	0.00100	0.0232	0	84.1	65	125	12.9	30	
o-Xylene	0.0204	0.00100	0.0232	0	87.8	80	120	12.8	30	
Toluene	0.0182	0.00200	0.0232	0	78.6	75	120	10.5	30	
Surr: 1,2-Dichloroethane-d4	207		200.0		104	70	120	0	0	
Surr: 4-Bromofluorobenzene	213		200.0		106	75	120	0	0	
Surr: Dibromofluoromethane	193		200.0		96.7	85	115	0	0	
Surr: Toluene-d8	194		200.0		97.1	85	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203193
Project: HELSTF TSA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: **ICV-120323** Batch ID: **R59747** TestNo: **SW8260C** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS7_120323A** Analysis Date: **3/23/2012 9:51:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0400	0.00100	0.0464	0	86.3	80	120			
Ethylbenzene	0.0430	0.00100	0.0464	0	92.8	80	120			
m,p-Xylene	0.0872	0.00200	0.0928	0	94.0	80	120			
Methyl tert-butyl ether	0.0478	0.00100	0.0464	0	103	80	120			
o-Xylene	0.0433	0.00100	0.0464	0	93.3	80	120			
Toluene	0.0395	0.00200	0.0464	0	85.1	80	120			
Surr: 1,2-Dichloroethane-d4	200		200.0		100	70	120			
Surr: 4-Bromofluorobenzene	215		200.0		108	75	120			
Surr: Dibromofluoromethane	184		200.0		91.9	85	115			
Surr: Toluene-d8	207		200.0		104	85	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

Lab Order: 1203193
Client: Zia Engineering & Environmental
Project: HELSTF TSA

Sequence Report

Run ID: GCMS7_120309C

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
DCS-50932	-----	SW8260C	50932		3/9/2012 4:21:00 PM	3/9/2012 9:00:00 AM	A
DCS2-50932	-----	SW8260C	50932		3/9/2012 4:45:00 PM	3/9/2012 9:00:00 AM	A

Run ID: GCMS7_120323A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120323	-----	SW8260C	R59747	1	3/23/2012 9:51:00 AM		A
LCS-51105	-----	SW8260C	51105	1	3/23/2012 10:15:00 AM	3/23/2012 9:59:01 AM	A
MB-51105	-----	SW8260C	51105	1	3/23/2012 10:40:00 AM	3/23/2012 9:59:01 AM	A
1203208-05AMS	-----	SW8260C	51105	1	3/23/2012 1:36:00 PM	3/23/2012 9:59:01 AM	A
1203208-05AMSD	-----	SW8260C	51105	1	3/23/2012 2:01:00 PM	3/23/2012 9:59:01 AM	A
1203193-01A	HTSA-0197-HMW-TB-2-0312	SW8260C	51105	1	3/23/2012 4:51:00 PM	3/23/2012 9:59:01 AM	T
1203193-02A	HTSA-0197-HMW-052-0312	SW8260C	51105	1	3/23/2012 5:16:00 PM	3/23/2012 9:59:01 AM	A