

November 14, 2011

Mr. Winston Lue Work Assignment Manager Office of Resource Conservation and Recovery U.S. Environmental Protection Agency 1200 Pennsylvania Ave. NW Washington, D.C. 20460

Contract No. EP-W-09-024 Work Assignment No. 2-05 Blue Lightning PCB Sample Results

Dear Winston:

Enclosed please find a summary report documenting the analytical results for the soil samples collected during the sampling event conducted on September 8, 2011, as part of the Blue Lightning PCB Disposal Demonstration. The summary report is a deliverable under Task 3 of the work assignment statement of work. The summary report provides the PCB analysis results of the soil samples, as well as a summary of the Quality Assurance/Quality Control (QA/QC) procedures and the final analytical data tables. If additional information on the analysis of the samples is required, a full laboratory data package can be provided.

If you have any questions, please contact me at (614) 424-7552.

Sincerely,

Michael Rectanus

Enclosure

cc: Cynthia Bowie (EPA Project Officer) Amy Hensley (Alternate EPA WAM)

Bruce Buxton (Battelle Program Manager)

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#### Blue Lightning PCB Disposal Demonstration Intermediate Soil Sampling Event Analytical Results Summary

An intermediate sampling event for the Blue Lightning PCB Disposal Demonstration was conducted on September 8, 2011. Four soil samples were collected during the sampling event. The samples were received at the Battelle Duxbury analytical laboratory on September 12 and immediately logged into the Battelle Laboratory Information Management System (LIMS).

The soil samples were extracted by manual Soxhlet Method 3540C, and analyzed for PCB Aroclors by gas chromatography/electron capture detection (GC/ECD) in accordance with EPA Method 8082A. Table 1 provides a summary of the analytical results in units of nanogram per gram (ng/g or parts per billion [ppb]) on a dry basis for each Aroclor analyzed in the soil samples. Table 1 also provides the total PCB concentration, in units of parts per million (ppm), as the sum of the Aroclor concentrations for each sample. These results provide the most conservative total PCB concentrations for the samples. That is, for the Aroclors resulting in a non-detect, the method detection limit (MDL) for that Aroclor was used to determine the total PCB concentration for each sample shown in Table 1.

Attachment A provides a narrative of the extraction and analysis procedures performed on the soil samples. Attachment B provides the final analytical data tables for the samples, which were created from a direct transfer of the authorized LIMS data. Attachment C provides the Quality Assurance/Quality Control (QA/QC) documents related to sample receipt and handling. A full laboratory data package related to the analysis of the samples is available upon request.

TABLE 1. BLUE LIGHTNING SOIL SAMPLE RESULTS

Client ID	EPA-24-VD-5		EPA-24-SI-5		EPA-22-VS-5		EPA-23-VS-5	
Battelle ID	O6796-P		O6797-P		O6798-P		O6799-P	
Collection Date	09/08/11		09/08/11		09/08/11		09/08/11	
Extraction Date	09/28/11		09/28/11		09/28/11		09/28/11	
Analysis Date	10/08/11		10/08/11		10/09/11		10/09/11	
Analytical Instrument	ECD		ECD		ECD		ECD	
% Moisture	9.77		11.11		5.98		4.76	
Matrix	SOIL		SOIL		SOIL		SOIL	
Sample Size	1.83		1.79		1.89		1.97	
Size Unit-Basis	G_DRY		G_DRY		G_DRY		G_DRY	
Units	NG/G_DRY		NG/G_DRY		NG/G_DRY		NG/G_DRY	
Aroclor 1016	3.2	U	3.2	U	3.2	U	3.2	U
Aroclor 1221	3.2	U	3.2	U	3.2	U	3.2	U
Aroclor 1232	3.2	U	3.2	U	3.2	U	3.2	U
Aroclor 1242	5855985.57	D	915144.92	D	2634.83	J	2080.31	J
Aroclor 1248	0.9	U	0.9	U	0.9	U	0.9	U
Aroclor 1254	0.9	U	0.9	U	0.9	U	0.9	U
Aroclor 1260	175228.63	D	32169.16	D	366.37	J	94.71	J
Total (ppm)	6031.2		947.3		3.0		2.2	

U Analyte not detected at 3:1 signal:noise ratio. The method detection limit (MDL) reported.D Dilution Run. Initial run outside linear range of instrument.

## ATTACHMENT A SAMPLE ANALYSIS NARRATIVE

#### PCB Aroclor – QA/QC Summary Batch 11-0333

Project:	PCB Disposal Demonstrations	
Parameters:	PCB Aroclor	
Laboratory:	Battelle-Duxbury	
Matrix:	Soil	
Data Set:	DP-11-0559	
Analytical SOP:	5-128	
Method	EPA 8082A modified	
Reference:	EPA 8082A IIIOuilleu	

#### Sample Custody

Collection Date	Receipt Date	Temp (°C)
9/8/2011	9/12/2011	20.8

Corrective Actions	Two corrective actions.		
	<ul> <li>Sample count not noted on original custody</li> <li>All samples received outside of standard temperature range. Work Assignment Leader contacted; deviation noted.</li> </ul>		
Sample Storage	The samples were frozen until extraction.		
Related samples	NA NA		

#### **METHOD SUMMARIES**

Sample	Approximately 2 g of soil were spiked with surrogates and extracted in
Preparation	methylene chloride using Soxhlet apparatus. The extract was dried over anhydrous sodium sulfate and concentrated over a water bath. The extracts were cleaned with copper (for sulfur removal), then processed through a prepacked Forisil cleanup column, and concentrated. The samples were fortified with internal standards (IS) just prior to analysis
Prep comments	None.

#### PCB Aroclor – QA/QC Summary Batch 11-0333

Analysis	Extracts intended for PCB analysis were analyzed using gas chromatography/electron capture detection (GC/ECD), following Battelle SOP 5-128, which is based on key components described in EPA Method 8082A. Sample data were quantified by the method of internal standards, using the IS compounds. Calibration verification was performed at the beginning and end of each 24-hour period in which samples were analyzed. Concentrations of target compounds were calculated versus internal standards using the average response factors (RF) generated from the initial calibration. The instrument was calibrated using a multi-level Aroclor 1016:1260 solution.
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Holding Times	Extraction Date(s)		Analysis	Date(s)
	9/28/2011	-	10/8/2011	10/9/2011

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
<5 X MDL	No exceedences noted.
	No comments.

Note: MDL is the method detection limit.

Laboratory Control Spike (LCS)	A LCS was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
40-120% recovery	No exceedences noted.  No comments.
	No comments.

Laboratory	A laboratory duplicate was prepared with this analytical batch. The relative
Duplicate	percent difference of target analytes were calculated to measure precision.
<30% RPD	No exceedences noted.
	No comments.

Note: RPD is the relative percent difference.

Matrix Spike (MS)	A MS sample was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure data quality in terms of accuracy.
40-120% recovery	Two exceedences noted.  The concentration of PCB added to the MS was masked by the concentration in the sample selected as the background for the MS sample; no recovery data could be calculated. No further corrective actions taken.  No comments.

## PCB Aroclor – QA/QC Summary Batch 11-0333

Surrogate Recoveries	Two surrogate compounds were added prior to extraction, including PCB 34 and PCB 152. The recovery of each surrogate compound was calculated to measure data quality in terms of accuracy (extraction efficiency).
40 – 120%	Five exceedences noted.
	Both surrogates added to samples O6796 and O6796MS were un-recovered due to extremely high levels of PCB in the samples that interfered with the surrogate response. Recoveries could not be determined in these samples. The results are qualified with "N" indicating the result is outside the control limits, and "MI" indicating matrix interference. The surrogate PCB34 was over-recovered in sample O6797DUP due to matrix interference. The result is reported and qualified with "N" indicating the value is outside the control limits, and "ME" indicating the value is an estimate because of matrix interference.

Initial Calibration (ICAL)	The GC/ECD was calibrated with six-level quadratic calibration curve for Aroclor 1016:1260.
R <sup>2</sup> ≥ 0.995	No exceedences noted. No comments.

Note: R<sup>2</sup> is the co-efficient of determination.

Continuing Calibration Verification (CCV)	Continuing calibration standards were run every 24 hours to ensure that initial calibration is still valid.
≤ 25% difference	No exceedences noted.  No comments.

Independent Calibration Check (ICC)	The independent check was run after each ICAL to verify the calibration. This standard is from a different source than the ICAL.
≤ 25% difference	No exceedences noted. No comments.

## ATTACHMENT B FINAL ANALYTICAL DATA TABLES

Project Client: Battelle Columbus Operations Project Name: PCB Disposal Demonstrations Project Number: 100006480-1

Client ID	EPA-24-VD-5	EPA-24-SI-5	EPA-22-VS-5	EPA-23-VS-5
Battelle ID	O6796-P	O6797-P	O6798-P	O6799-P
Sample Type	SA	SA	SA	SA
Collection Date	09/08/11	09/08/11	09/08/11	09/08/11
Extraction Date	09/28/11	09/28/11	09/28/11	09/28/11
Analysis Date	10/08/11	10/08/11	10/09/11	10/09/11
Analytical Instrument	ECD	ECD	ECD	ECD
% Moisture	9.77	11.11	5.98	4.76
% Lipid	NA	NA	NA	NA
Matrix	SOIL	SOIL	SOIL	SOIL
Sample Size	1.83	1.79	1.89	1.97
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	NG/G_DRY	NG/G_DRY	NG/G_DRY	NG/G_DRY
Aroclor 1016	3.2 U	3.2 U	3.2 U	3.2 U
Aroclor 1221	3.2 U	3.2 U	3.2 U	3.2 U
Aroclor 1232	3.2 U	3.2 U	3.2 U	3.2 U
Aroclor 1242	5855985.57 D	915144.92 D	2634.83 J	2080.31 J
Aroclor 1248	0.9 U	0.9 U	0.9 U	0.9 U
Aroclor 1254	0.9 U	0.9 U	0.9 U	0.9 U
Aroclor 1260	175228.63 D	32169.16 D	366.37 J	94.71 J
Surrogate Recoveries (%)				
Cl3(34)	0 NMI	117	91	95
Cl6(152)	0 NMI	60	94	97

Project Client: Battelle Columbus Operations Project Name: PCB Disposal Demonstrations Project Number: 100006480-1

Client ID	Procedural Blank	
Battelle ID	BS770PB-P	
Sample Type	PB	
Collection Date	09/28/11	
Extraction Date	09/28/11	
Analysis Date	10/08/11	
Analytical Instrument	ECD	
% Moisture	7.9	
% Lipid	NA	
Matrix	SEDIMENT	
Sample Size	1.85	
Size Unit-Basis	G_DRY	
Units	NG/G_DRY	
Aroclor 1016	3.2 U	
Aroclor 1221	3.2 U	
Aroclor 1232	3.2 U	
Aroclor 1242	3.2 U	
Aroclor 1248	0.9 U	
Aroclor 1254	0.9 U	
Aroclor 1260	0.9 U	
Surrogate Recoveries (%)		
CI3(34)	109	
CI6(152)	93	
0.0(102)	55	

Project Client: Battelle Columbus Operations Project Name: PCB Disposal Demonstrations Project Number: 100006480-1

	090827-01: Sand,				
Client ID	White Quartz				
Battelle ID	BS771LCS-P				
Sample Type	LCS				
Collection Date	09/28/11				
Extraction Date	09/28/11				
Analysis Date	10/08/11				
Analytical Instrument	ECD				
% Moisture	NA				
% Lipid	NA				
Matrix	SEDIMENT				
Sample Size	2.06				
Size Unit-Basis	G_DRY				
Units	NG/G_DRY		Target	% Recovery	Qualifier
Aroclor 1016	456.33	J	388.35	118	
Aroclor 1221	3.2	U			
Aroclor 1232	3.2	U			
Aroclor 1242	3.2	U			
Aroclor 1248					
	0.9	U			
Aroclor 1254	0.9	U			
		_	388.35	115	
Aroclor 1254	0.9	U	388.35	115	
Aroclor 1254	0.9	U	388.35	115	
Aroclor 1254	0.9	U	388.35	115	
Aroclor 1254 Aroclor 1260	0.9	U	388.35	115	

Project Client: Battelle Columbus Operations Project Name: PCB Disposal Demonstrations Project Number: 100006480-1

Client ID	EPA-24-VD-5	EPA-24-VD-5			
Battelle ID	O6796-P	O6796MS-P			
Sample Type	SA	MS			
Collection Date	09/08/11	9/8/2011			
Extraction Date	09/28/11	9/28/2011			
Analysis Date	10/08/11	10/8/2011			
Analytical Instrument	ECD	ECD			
% Moisture	9.77	9.68			
% Lipid	NA	NA			
Matrix	SOIL	SOIL			
Sample Size	1.83	0.97			
Size Unit-Basis	G_DRY	G_DRY			
Units	NG/G_DRY	NG/G_DRY	Target	% Recovery	Qualifier
Aroclor 1016	3.2 U	3.2 U	4123.71	0	N
Aroclor 1221	3.2 U	3.2 U	4125.71	O	IN .
Aroclor 1232	3.2 U	3.2 U			
Aroclor 1232 Aroclor 1242	5855985.57 D	3.2 U			
Aroclor 1242 Aroclor 1248	0.9 U	0.9 U			
Aroclor 1246 Aroclor 1254	0.9 U	0.9 U			
	0.9 U 175228.63 D	26492.29	4123.71	0	_
Aroclor 1260	173226.03 D	20492.29	4123.71	U	n

#### Surrogate Recoveries (%)

Cl3(34)	0 NMI	0 NMI
CI6(152)	0 NMI	0 NMI

Project Client: Battelle Columbus Operations Project Name: PCB Disposal Demonstrations Project Number: 100006480-1

Client ID	EPA-24-SI-5	EPA-24-SI-5			
Battelle ID	O6797-P	O6797DUP-P			
Sample Type	SA	QADU			
Collection Date	09/08/11	9/8/2011			
Extraction Date	09/28/11	9/28/2011			
Analysis Date	10/08/11	10/8/2011			
Analytical Instrument	ECD	ECD			
% Moisture	11.11	10.36			
% Lipid	NA	NA			
Matrix	SOIL	SOIL			
Sample Size	1.79	1.82			
Size Unit-Basis	G_DRY	G_DRY			
Units	NG/G_DRY	NG/G_DRY		RPD	Qualifier
Aroclor 1016	3.2 U	3.2	U	NA	
Aroclor 1221	3.2 U	3.2	U	NA	
Aroclor 1232	3.2 U	3.2	U	NA	
Aroclor 1242	915144.92 D	903703.63	D	1.3	
Aroclor 1248	0.9 U	0.9	U	NA	
Aroclor 1254	0.9 U	0.9	U	NA	
Aroclor 1260	32169.16 D	32731.87	D	1.7	
Surrogate Recoveries (%)					
Cl3(34)	117	135	NME		
Cl6(152)	60	59			



#### Glossary of Data Qualifiers

Flag:	Application:
Α	Tentatively identified; semi-quantitative.
В	Analyte concentration found in the sample at a concentration <5x the level found in the procedural blank.
D	Dilution Run. Initial run outside linear range of instrument.
E	Estimate, result is greater than the highest concentration level in the calibration.
Н	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the sample-specific Reporting Limit (RL).
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined or estimated.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets the contingency criteria.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO).
NA	Not applicable.
Т	Holding Time (HT) exceeded.
U	Analyte not detected at 3:1 signal:noise ratio. The method detection limit (MDL) reported.

## ATTACHMENT C SAMPLE CUSTODY DOCUMENTATION

## Battelle

ShpNo

SHP-110912-01

#### The Business of Innovation

**Battelle Project No:** 

Sample Receipt Fo	rm		Approved	: Danisa and D
Project Number:		Client:		
Annahada kalifaka kalifa adalah kalifa adalah kalifa adalah kalifa adalah kalifa adalah kalifa adalah kalifa a	tz, Matt		Monday, September 12,	2011 9:30 AM
No. of Shipping Containers	: 1			
SHIPMENT	200000000000000000000000000000000000000			
Method of Delivery: Comm	ercial Carrier	Tracking Number:	8488 4905 7075	
COC Forms:	nipped with samples	No Forms		
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Samples				
Sample Labels:	Sample labels	agree with COC forms		
	☐ Discrepancies	(see Sample Custody Cor	rective Action Form)	
Container Seals:	☐ Tape 🗹 Cu	stody Seals  Other Se	eals (See sample Log)	
		each shipping container See sample log for impac		
Condition of Samples:	✓ Sample contai	ners intact	Custody Corrective Action	n Form)
Temperature upon receipt (' (Note: If temperature upon re		mperature Blank used [onditions, see sample log		
Samples Acidified:	Yes No	<b>✓</b> Unknown		
Initial pH 5-9?:	☐ Yes ☐ No	<b>✓</b> NA		
If no, individual sample adjus	tments on the Auxiliary Sam	ple Receipt Form		
Total Residual Chlorine Pro If yes, individual sample adju		☐ NA aple Receipt Form		
Head Space <1% in samples Individual sample deviations		Yes No 🗸	NA	
Samples Containers: Samples returned in PC-grade	e jars: Yes No	✓ Unknown /Lot No.	: UnKnown	
Storage Location:	Chem North: Freezer - F000	2 (Walk-in) BDC	O IDs Assigned: 067	96 - 06799
Samples logged in by:	Schumitz, Matt		Date/Time:	09/12/2011 9:30 AM
Approved By:			Approved On:	ryckickshood of the first of th
Authorized By:			Authorized On:	



#### The Business of Innovation

ShpNo: SHP-110912-01

Battelle Project No: 00006480-1

**Report Corrective Actions Corrective Action No: 1** Authorized Approved: **COC Client: COC Project: COC Date:** 9/12/2011 9:35:0 **Description of Problem: Explanation:** Custody Incomplete sample custody forms THERE IS NO NUMERICAL VALUE LISTED FOR THE QAUNTITY OF SAMPLES Receipt temperature outside of acceptability SAMPLES ARRIVED AT 20.8 DEGREES Temperature and Preservation Documentation of project manager notification Sample Custodian Schumitz, Matt **Date:** 9/12/2011 9:46:00 AM **Laboratory Manager:** Thorn, Jonathan Date: 10/25/2011 4:54:00 PM Peven-McCarthy, Carole **Project Manager: Date:** 9/21/2011 8:18:00 AM Documentation of client notification (should be completed by project manager within 24 hrs): I contacted Results of communication with client (Describe any corrective action directed by the client): Client informed. Lab will proceed with analysis. Date this form was received back to the custodian: **Reference Number:** 

Printed on 10/25/2011 Page 1 of 1

Collection Date: Login Date: Ctrs: Matrix: Termp: pht: TRC: VOC: 09/08/1116;46 09/12/119;38 1 SOIL 20;8 NA No NA FOO 09/08/11177:10 09/12/119;40 1 SOIL 20;8 NA No NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA No NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA No NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA No NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA No NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA No NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA No NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177:34 09/12/119;40 1 SOIL 20;8 NA NO NA FOO 09/08/11177**  ***TOTAL STATEMPT	Project Number: Received by: Schumitz, Matt No. of Shipping Containers: 1	Sample Receipt Form Details  Project Number:  Received by: Schumitz, Matt Date/Ti  No. of Shipping Containers: 1	Client:	Monday, September 12, 2011	9:30 AM	Battelle Project No:  Approved:  Authorized
	BDO Id: Client Sample ID:  06796	Collection Date: 09/08/11 16:46 09/08/11 17:15 09/08/11 17:34	Login Date: 09/12/11 9:38 09/12/11 9:40 09/12/11 9:40	l 👸	PH: TRC: VOC: NA NO NA	No.

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## Baffelle

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Proj. No

# Chain of Custody

397 Washington Street Duxbury, MA 02332 Phone: 781-952-5200 Fax: 781-934-2124

Proj. Name Blue Lightning

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- Andrews and the second	Jan	BATTELLE ID	96796 86790 86790 96799			2	Sommens: Contained tolks of organic vapors
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