APPENDIX B

LABORATORY DATA PACKAGES

Ground Water Monitoring

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: 115058
Sampling Date(s): February 27, 2012
Lab Report ID: 12020228
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis (Water)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Robert E. Wagner
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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CASE NARRATIVE

March 08, 2012

CASE NARRATIVE

This data package (SDG ID: 12020228) consists of 7 water samples received on 2/29/2012. The samples are from Project Name: 115058.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AP02447	MW-5D	2/27/2012 18:05
AP02448	MW-28	2/27/2012 18:30
AP02449	MW-5	2/27/2012 18:40
AP02450	MW-27D	2/27/2012 20:30
AP02451	MW-27R	2/27/2012 19:30
AP02452	MW-D	2/27/2012 20:30
AP02453	MW-32	2/27/2012 20:35

1

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via FEDEX delivery service on 2/29/2012.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) The following cooler temperature was recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 2.2 degrees Celsius. Please see Chain of Custody for details.

Note: Two 1liter bottles were received for each sample at the laboratory. One of the sample containers was completely broken upon receipt for sample (LAB ID: AP02451). The requested analysis was performed on the other container.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Continuous Liquid/Liquid Extraction (EPA - Method 3520C). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.

(2.) The concentration result for Aroclor 1248 was flagged (PE) to denote that Aroclor 1248 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1248 was not presumed to be present in the sample(s). Please see associated Form 1 for details.

(3.) The surrogates DCBP and TCMX were diluted out for several samples (LAB ID: AP02448, AP02451, and AP02452) due to the high concentration of PCB in the samples. Please see associated Form 2 for details.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
(2.) J-Denotes concentration result greater than the MDL but less than the RL.
(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

William A. Kotas
Client Services Manager

S:\Lims Data\1202\12020228\Package\CN_12020228_Rev00.doc

SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<12020228P1>

120202281

Page: 1 of 1

1540282

Section A Required Client Information:

Company: TRC
Address: 650 Suffolk St.
Lowell, MA 01854
Email To: jsaunders@trcsolutions.com
Phone: 978-970-5600 Fax:
Requested Due Date/TAT: Standard 5-day

Section B Required Project Information:

Report To: David Sullivan
Copy To:
Purchase Order No.: 42220
Project Name: New Bedford High School
Project Number: 115058

Section C Invoice Information:

Attention: Accounts Payable
Company Name: TRC
Address: 21 Griffin Road North, Windsor, CT
Pace Quote Reference:
Pace Project Manager: Bill Katas
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: PCB (8082A)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-5D	WT	G			2/27/12	1805		2	X								X		AP02447
2	MW-28	WT	G				1830		2	X								X		AP02448
3	MW-5	WT	G				1840		2	X								X		AP02449
4	MW-27D	WT	G				2030		2	X								X		AP02450
5	MW-27R	WT	G				1930		2	X								X		AP02451
6	MW-D	WT	G				2030		2	X								X		AP02452
7	MW-32	WT	G			2/27/12	2035		2	X								X		AP02453
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
– 0.05 ug/L reporting limit	Kevin Jordan / ~~TRC~~ TRC via FedEx	2/28/12	16:30	VIA FedEX.		
– Retention of sample extract for contingency analysis	VIA FedEX			Jonathan Tuttle / PACE	2/29/12	09:12
– Review of chromatograms for non-detects not attributable to baseline noise (see Bill Katas for details)						

ORIGINAL

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Jordan

SIGNATURE of SAMPLER: Kevin Jordan

DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

SURROGATE % RECOVERY SUMMARY

2E-1
PCB SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 12020228

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-26	AP02447B	GC23F-855-4	101	103					0
PBLK-26	AP02447B	GC23B-857-4			85.8	97.3			0
LCS-26	AP02447L	GC23F-855-5	93.9	100					0
LCS-26	AP02447L	GC23B-857-5			86.3	94.4			0
12020228-01	AP02447	GC23F-855-6	96.1	102					0
12020228-01	AP02447	GC23B-857-6			85.5	97.8			0
12020228-02	AP02448	GC23F-855-7	173 D	79.8 D					0
12020228-02	AP02448	GC23B-857-7			98.9 D	110 D			0
12020228-03	AP02449	GC23F-855-8	106	102					0
12020228-03	AP02449	GC23B-857-8			84.3	96.6			0
12020228-04	AP02450	GC23F-855-9	94.5	98.5					0
12020228-04	AP02450	GC23B-857-9			89.1	96.3			0
12020228-05	AP02451	GC23F-855-10	136 D	81.6 D					0
12020228-05	AP02451	GC23B-857-10			167 D	140 D			0
12020228-06	AP02452	GC23F-855-11	108 D	64.9 D					0
12020228-06	AP02452	GC23B-857-11			119 D	100 D			0
12020228-07	AP02453	GC23F-855-12	88.0	99.1					0
12020228-07	AP02453	GC23B-857-12			84.1	95.5			0

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(60.0-140)
SURR2 = DECACHLOROBIPHENYL	(60.0-140)

Form II-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

LABORATORY CONTROL SPIKE SUMMARY

4

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12020228

LCS Lab ID: LCS-26

Blank Sample ID: PBLK-26

LCS File ID: GC23F-855-5

Method Blank File ID: GC23F-855-4

LCS Inj Date: 03/06/2012 12:28:36

Method Blank Inj Date: 03/06/2012 11:56:00

LCS ID: AP02447L

Method Blank ID: AP02447B

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.500	0.467	93.4	70.0-130

Column to be used to flag recovery values

* Values outside of QC limits

[1]QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.1

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12020228

LCS Lab ID: LCS-26

Blank Sample ID: PBLK-26

LCS File ID: GC23B-857-5

Method Blank File ID: GC23B-857-4

LCS Inj Date: 03/06/2012 12:28:40

Method Blank Inj Date: 03/06/2012 11:56:04

LCS ID: AP02447L

Method Blank ID: AP02447B

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.500	0.438	87.7	70.0-130

Column to be used to flag recovery values

* Values outside of QC limits

[1]QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.1

METHOD BLANK SUMMARY

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4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Blank Sample ID:	PBLK-26
Matrix:	Water	Method Blank ID:	AP02447B
Instrument ID:	GC23F	Lab File ID:	GC23F-855-4
Extraction Type:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
GC Column (1):	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	03/06/2012
		Time Analyzed:	11:56:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-26(LAB CONTROL SPIKE)	AP02447L	GC23F-855-5	03/06/2012 12:28:36
MW-5D	AP02447	GC23F-855-6	03/06/2012 13:01:19
MW-28	AP02448	GC23F-855-7	03/06/2012 13:34:01
MW-5	AP02449	GC23F-855-8	03/06/2012 14:06:38
MW-27D	AP02450	GC23F-855-9	03/06/2012 14:39:14
MW-27R	AP02451	GC23F-855-10	03/06/2012 15:11:50
MW-D	AP02452	GC23F-855-11	03/06/2012 15:44:27
MW-32	AP02453	GC23F-855-12	03/06/2012 16:17:04

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Blank Sample ID:	PBLK-26
Matrix:	Water	Method Blank ID:	AP02447B
Instrument ID:	GC23B	Lab File ID:	GC23B-857-4
Extraction Type:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
GC Column (1):	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	03/06/2012
		Time Analyzed:	11:56:04

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-26(LAB CONTROL SPIKE)	AP02447L	GC23B-857-5	03/06/2012 12:28:40
MW-5D	AP02447	GC23B-857-6	03/06/2012 13:01:23
MW-28	AP02448	GC23B-857-7	03/06/2012 13:34:05
MW-5	AP02449	GC23B-857-8	03/06/2012 14:06:42
MW-27D	AP02450	GC23B-857-9	03/06/2012 14:39:18
MW-27R	AP02451	GC23B-857-10	03/06/2012 15:11:54
MW-D	AP02452	GC23B-857-11	03/06/2012 15:44:31
MW-32	AP02453	GC23B-857-12	03/06/2012 16:17:08

SAMPLE ANALYSIS DATA

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1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	12020228-01
Matrix:	Water	Client ID:	MW-5D
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AP02447
Percent Moisture:	100	Date Received:	02/29/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-855-6

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-857-6

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0283	AF,J
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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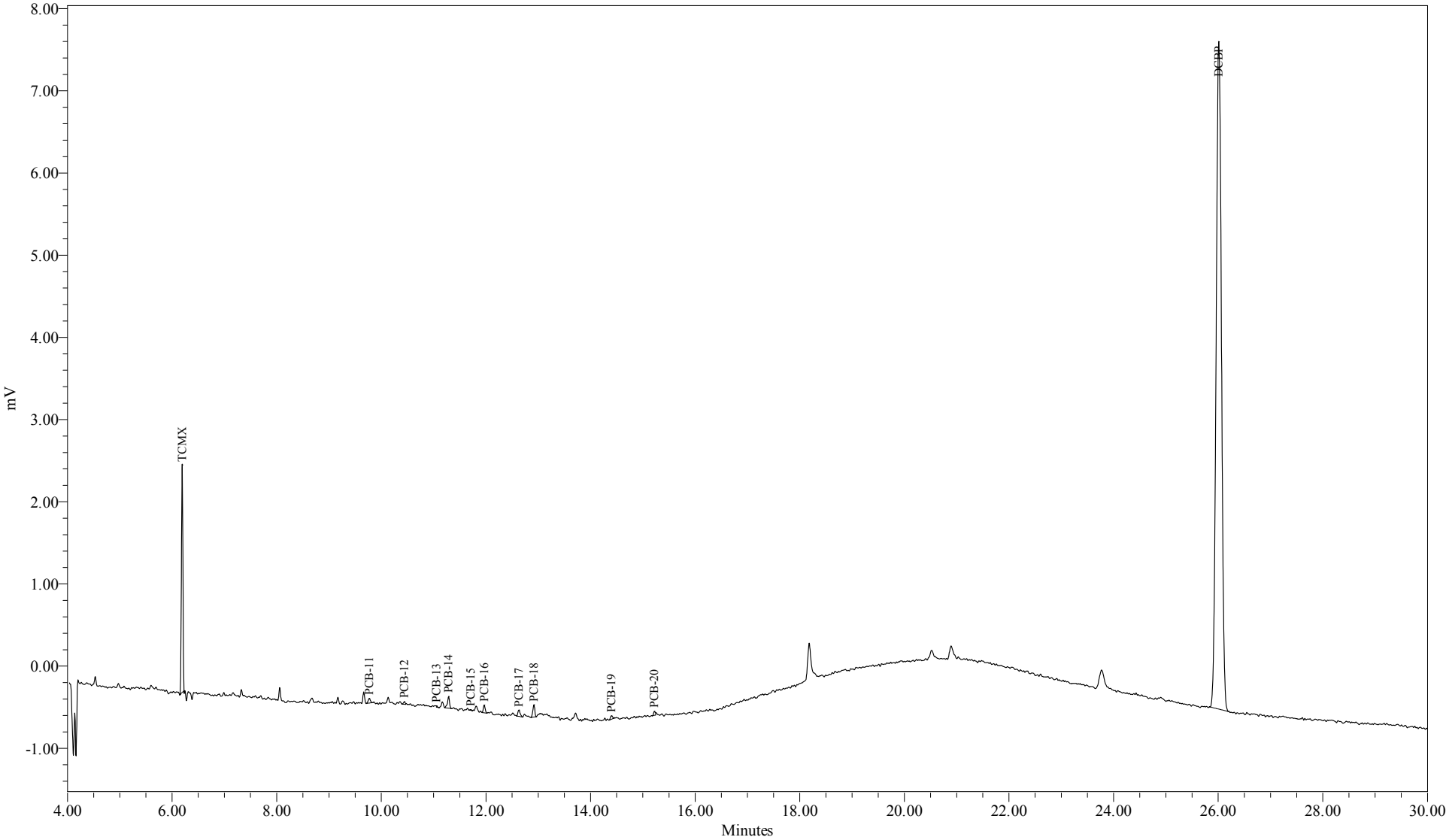
FORM I-CLP-PCB (NEA-PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

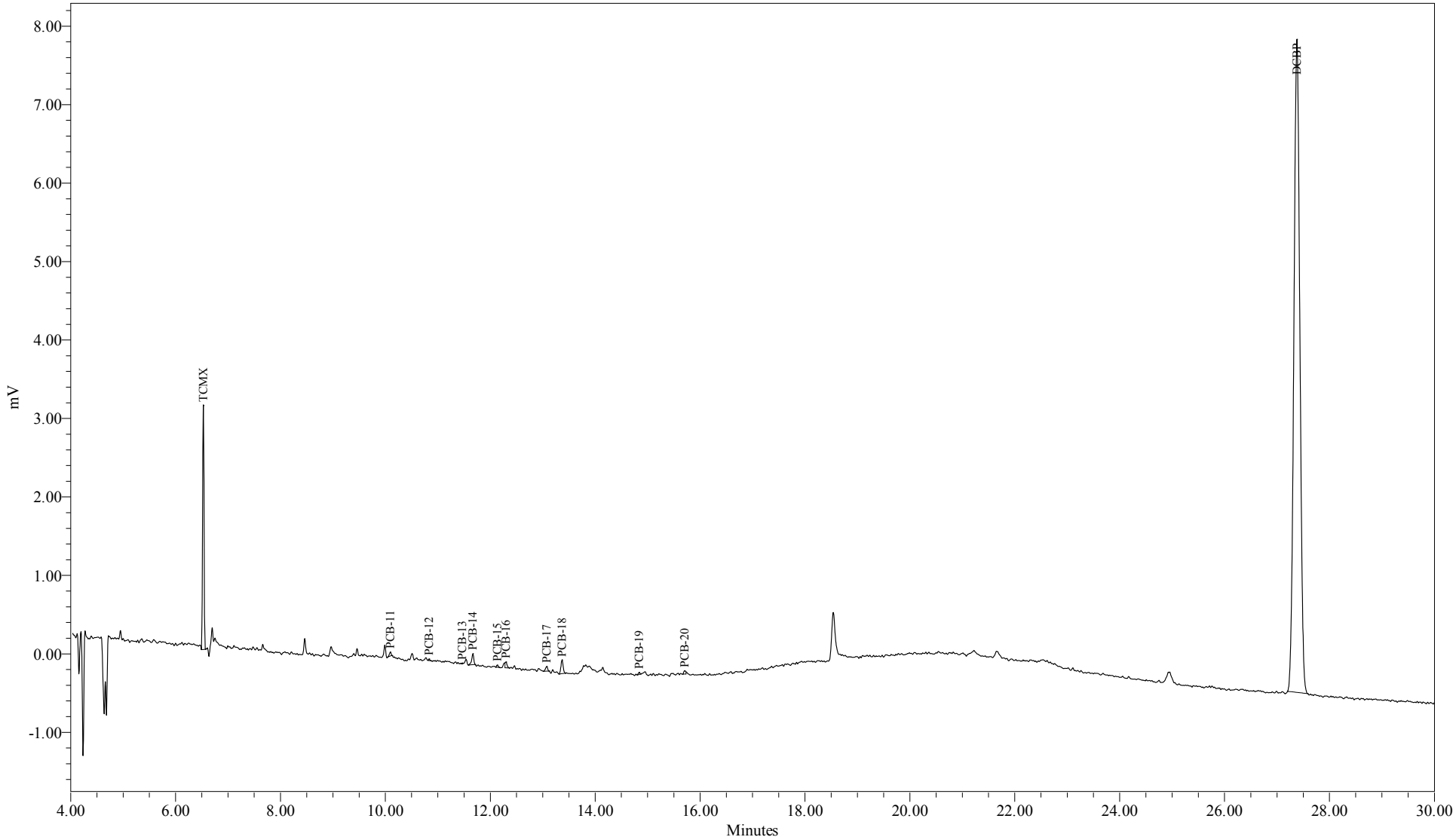
Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
www.pacelabs.com



Sample Name:	AP02447	Sample Amount (L) :	1.0800
Sample ID:	MW-5D	Dilution:	10
Date Acquired:	3/6/2012 1:01:19 PM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-6

Sample Name: AP02447

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
www.pacelabs.com



Sample Name:	AP02447	Sample Amount (L) :	1.0800
Sample ID:	MW-5D	Dilution:	10
Date Acquired:	3/6/2012 1:01:23 PM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-6

Sample Name: AP02447

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-5D
LRF Sample ID:	12020228-01	Lab Sample ID:	AP02447
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 1:01:19 PM	Date Analyzed:	03/06/2012 1:01:23 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-6	Lab File ID 2:	GC23B-857-6
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.74	7.90			
		2	NA	8.13	8.29			
		3	NA	8.76	8.92			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	NA	8.13	8.29			
		3	NA	8.77	8.93			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
Aroclor 1242	1	1	NA	7.74	7.90			
		2	NA	8.12	8.28			
		3	NA	8.76	8.92			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

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10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-5D
LRF Sample ID:	12020228-01	Lab Sample ID:	AP02447
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 1:01:19 PM	Date Analyzed:	03/06/2012 1:01:23 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-6	Lab File ID 2:	GC23B-857-6
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.77	9.70	9.86			
		2	10.44	10.37	10.53			
		3	11.05	11.02	11.18			
		4	11.29	11.19	11.35			
		5	11.71	11.59	11.75			
	2	1	10.09	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.46	11.38	11.54			
		4	11.67	11.58	11.74			
		5	12.13	12.06	12.22			
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.92	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.22	15.17	15.33	0.0283		
	2	1	12.30	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.37	13.31	13.47			
		4	14.84	14.79	14.95			
		5	15.71	15.66	15.82	0.0247	13.6	
Aroclor 1260	1	1	15.22	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	12020228-02
Matrix:	Water	Client ID:	MW-28
Sample wt(Dry)/vol:	1060 mL	Lab Sample ID:	AP02448
Percent Moisture:	100	Date Received:	02/29/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	40
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-855-7

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-857-7

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	2.00	U
1	11104-28-2	Aroclor 1221	2.00	U
1	11141-16-5	Aroclor 1232	2.00	U
1	53469-21-9	Aroclor 1242	2.00	U
1	12672-29-6	Aroclor 1248	7.85	PE
1	11097-69-1	Aroclor 1254	9.53	AF
1	11096-82-5	Aroclor 1260	2.00	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

6

FORM I-CLP-PCB (NEA-PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

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Phone: (518) 346-4592 Fax: (518) 381-6055
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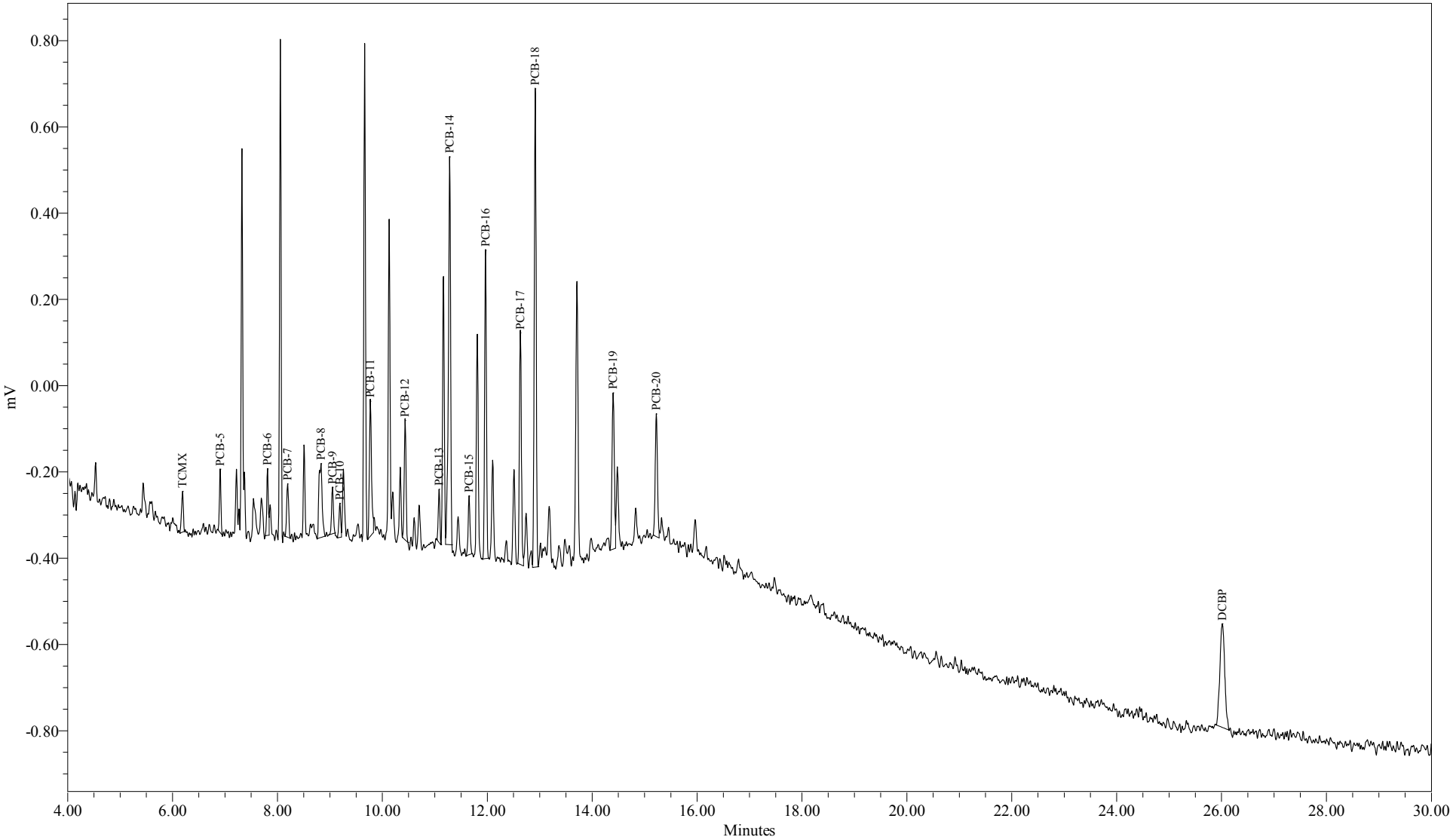

Sample Name:	AP02448	Sample Amount (L) :	1.0600
Sample ID:	MW-28	Dilution:	400
Date Acquired:	3/6/2012 1:34:01 PM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-7

Sample Name: AP02448

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Phone: (518) 346-4592 Fax: (518) 381-6055
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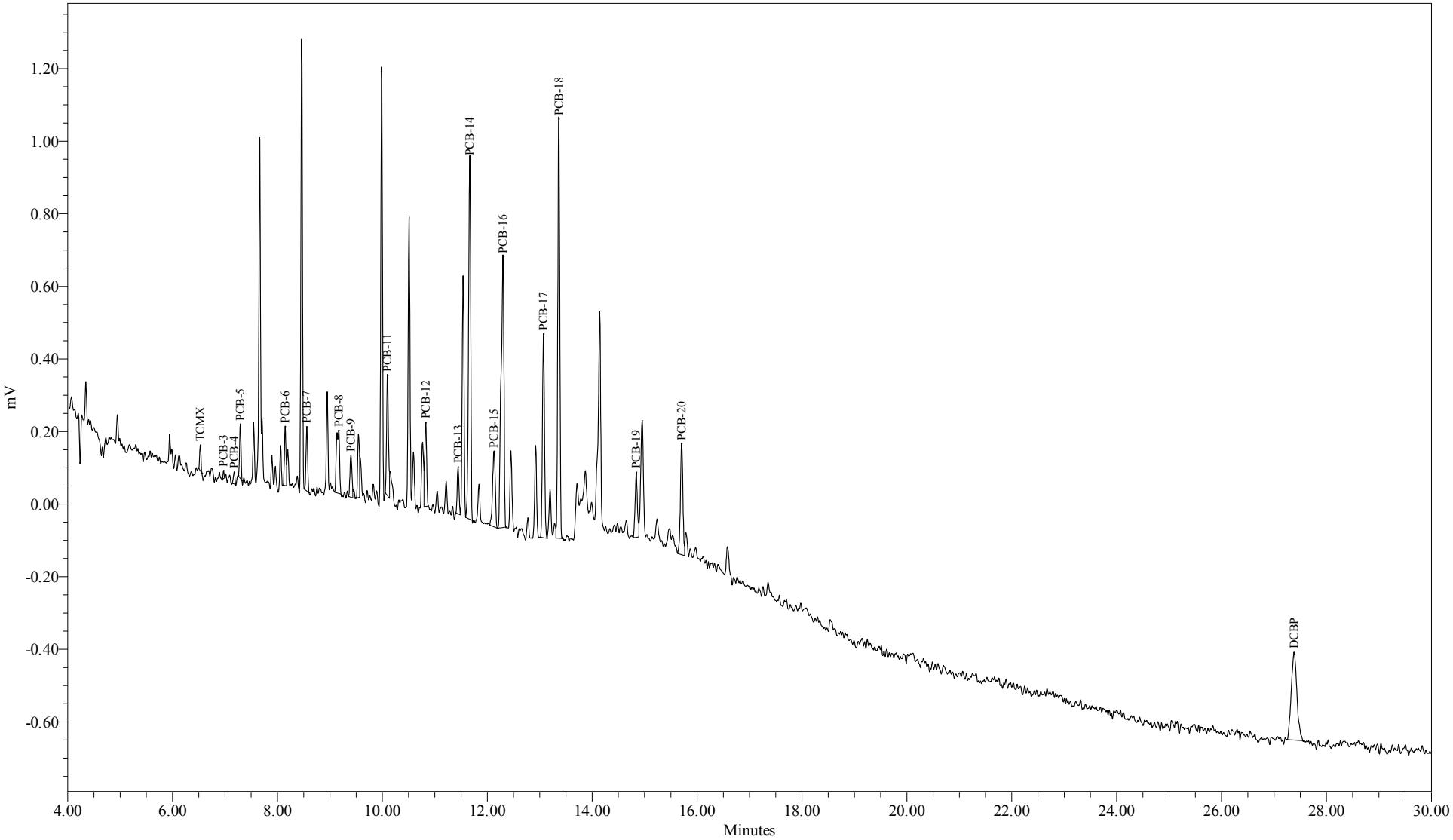

Sample Name:	AP02448	Sample Amount (L) :	1.0600
Sample ID:	MW-28	Dilution:	400
Date Acquired:	3/6/2012 1:34:05 PM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-7

Sample Name: AP02448

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-28
LRF Sample ID:	12020228-02	Lab Sample ID:	AP02448
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 1:34:01 PM	Date Analyzed:	03/06/2012 1:34:05 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-7	Lab File ID 2:	GC23B-857-7
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	NA	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	6.91	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	6.97	6.90	7.06			
		4	7.18	7.10	7.26			
		5	7.29	7.22	7.38			
Aroclor 1232	1	1	6.91	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	7.29	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	NA	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	NA	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-28
LRF Sample ID:	12020228-02	Lab Sample ID:	AP02448
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 1:34:01 PM	Date Analyzed:	03/06/2012 1:34:05 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-7	Lab File ID 2:	GC23B-857-7
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.77	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.08	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.65	11.59	11.75	7.85		
	2	1	10.10	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.44	11.38	11.54			
		4	11.67	11.58	11.74			
		5	12.13	12.06	12.22	6.28	22.2	
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.22	15.17	15.33	9.53		
	2	1	12.30	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.84	14.79	14.95			
		5	15.71	15.66	15.82	9.21	3.42	
Aroclor 1260	1	1	15.22	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	12020228-03
Matrix:	Water	Client ID:	MW-5
Sample wt(Dry)/vol:	1060 mL	Lab Sample ID:	AP02449
Percent Moisture:	100	Date Received:	02/29/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-855-8

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-857-8

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0595	PE
1	11097-69-1	Aroclor 1254	0.0319	AF,J
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

6

FORM I-CLP-PCB (NEA-PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
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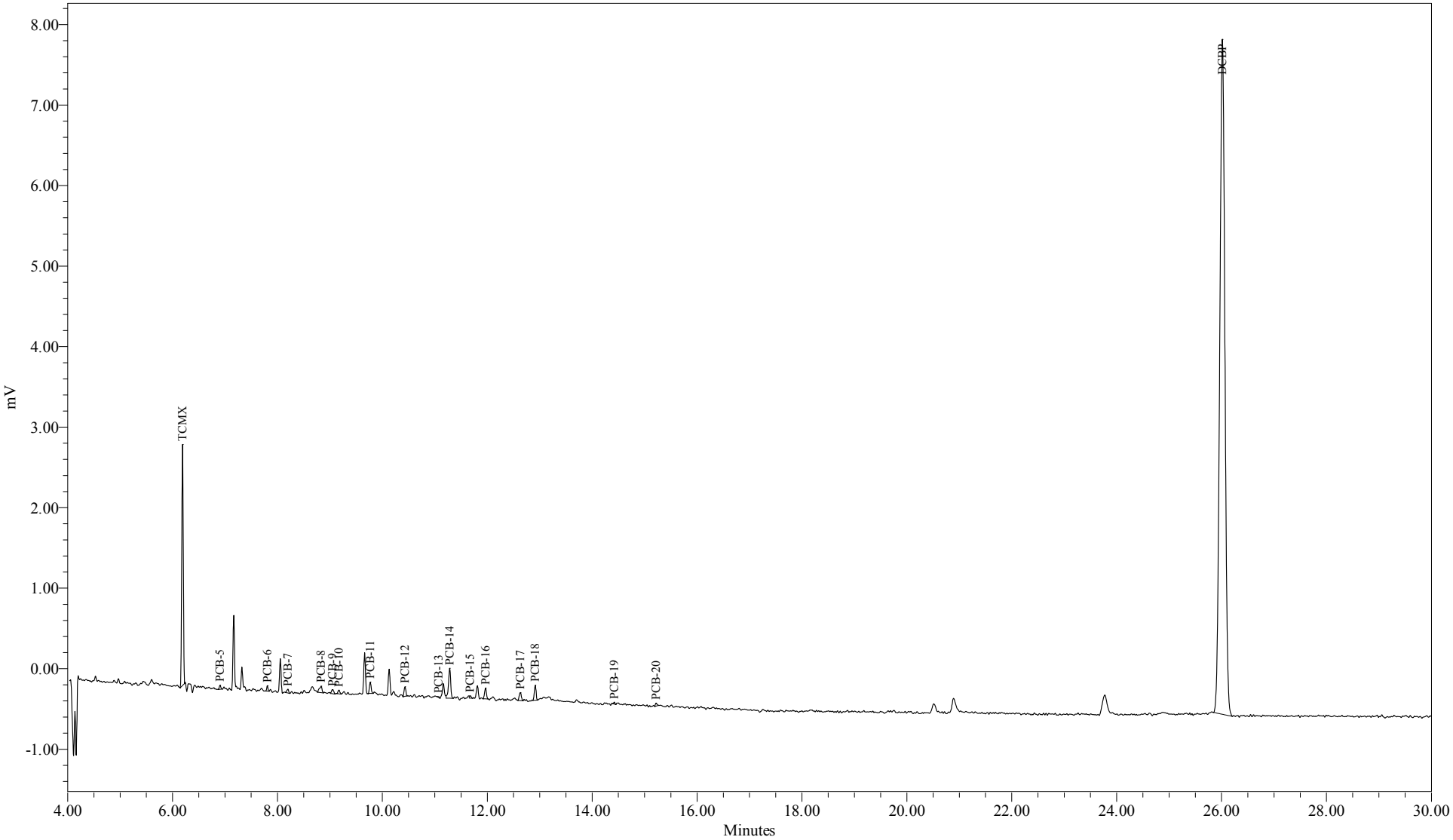

Sample Name:	AP02449	Sample Amount (L) :	1.0600
Sample ID:	MW-5	Dilution:	10
Date Acquired:	3/6/2012 2:06:38 PM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-8

Sample Name: AP02449

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
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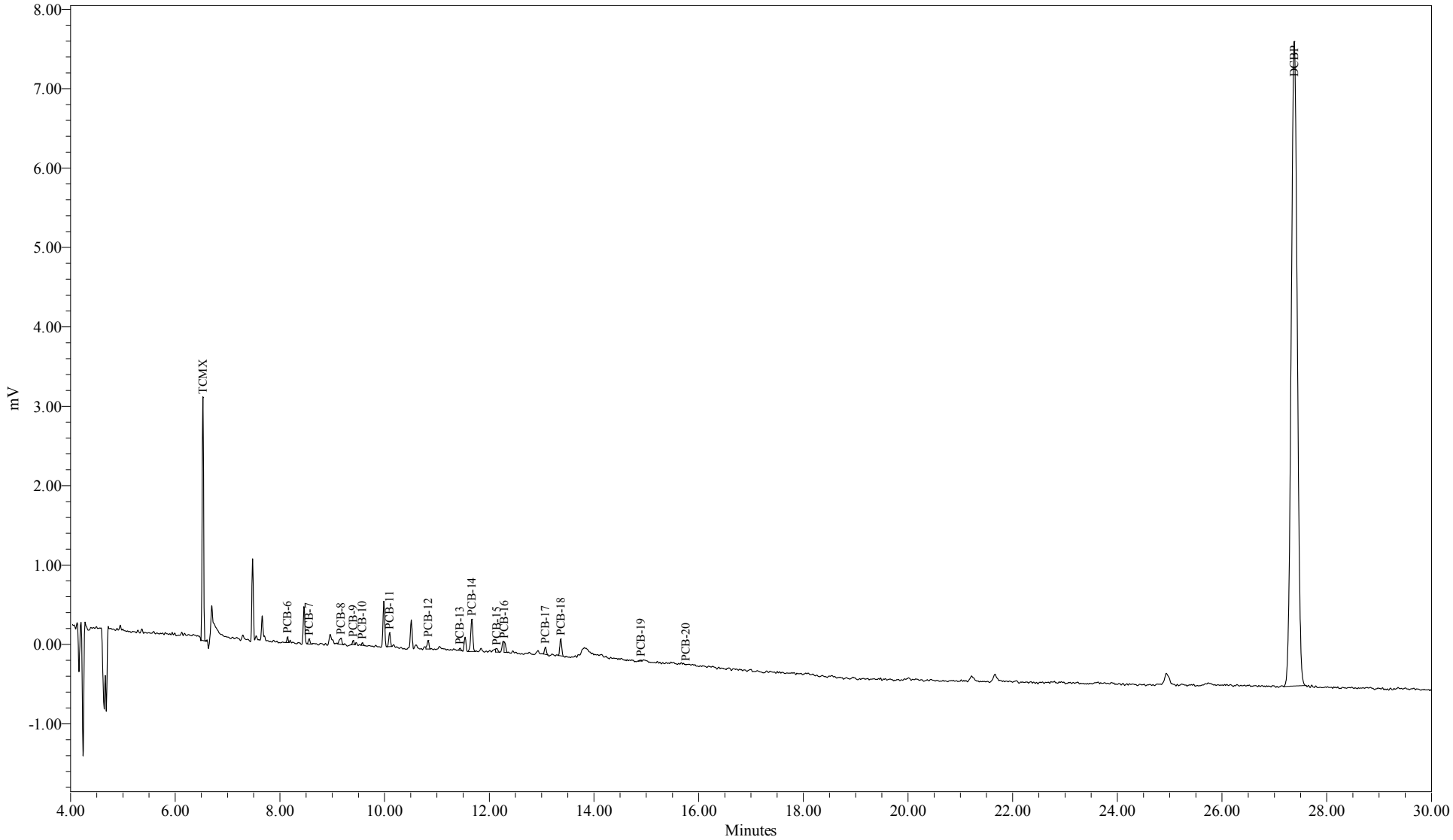

Sample Name:	AP02449	Sample Amount (L) :	1.0600
Sample ID:	MW-5	Dilution:	10
Date Acquired:	3/6/2012 2:06:42 PM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-8

Sample Name: AP02449

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-5
LRF Sample ID:	12020228-03	Lab Sample ID:	AP02449
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 2:06:38 PM	Date Analyzed:	03/06/2012 2:06:42 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-8	Lab File ID 2:	GC23B-857-8
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.20	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	6.90	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	6.90	6.84	7.00			
		2	8.20	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.20	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.57	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-5
LRF Sample ID:	12020228-03	Lab Sample ID:	AP02449
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 2:06:38 PM	Date Analyzed:	03/06/2012 2:06:42 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-8	Lab File ID 2:	GC23B-857-8
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.77	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.07	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.67	11.59	11.75	0.0595		
	2	1	10.10	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.44	11.38	11.54			
		4	11.67	11.58	11.74			
		5	12.14	12.06	12.22	0.0579	2.73	
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.42	14.35	14.51			
		5	15.22	15.17	15.33	0.0319		
	2	1	12.28	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.37	13.31	13.47			
		4	14.89	14.79	14.95			
		5	15.75	15.66	15.82	0.0263	19.2	
Aroclor 1260	1	1	15.22	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	15.75	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	12020228-04
Matrix:	Water	Client ID:	MW-27D
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AP02450
Percent Moisture:	100	Date Received:	02/29/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	2
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-855-9

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-857-9

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.100	U
1	11104-28-2	Aroclor 1221	0.100	U
1	11141-16-5	Aroclor 1232	0.100	U
1	53469-21-9	Aroclor 1242	0.100	U
2	12672-29-6	Aroclor 1248	0.206	PE
1	11097-69-1	Aroclor 1254	0.605	AF
1	11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

6

FORM I-CLP-PCB (NEA-PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
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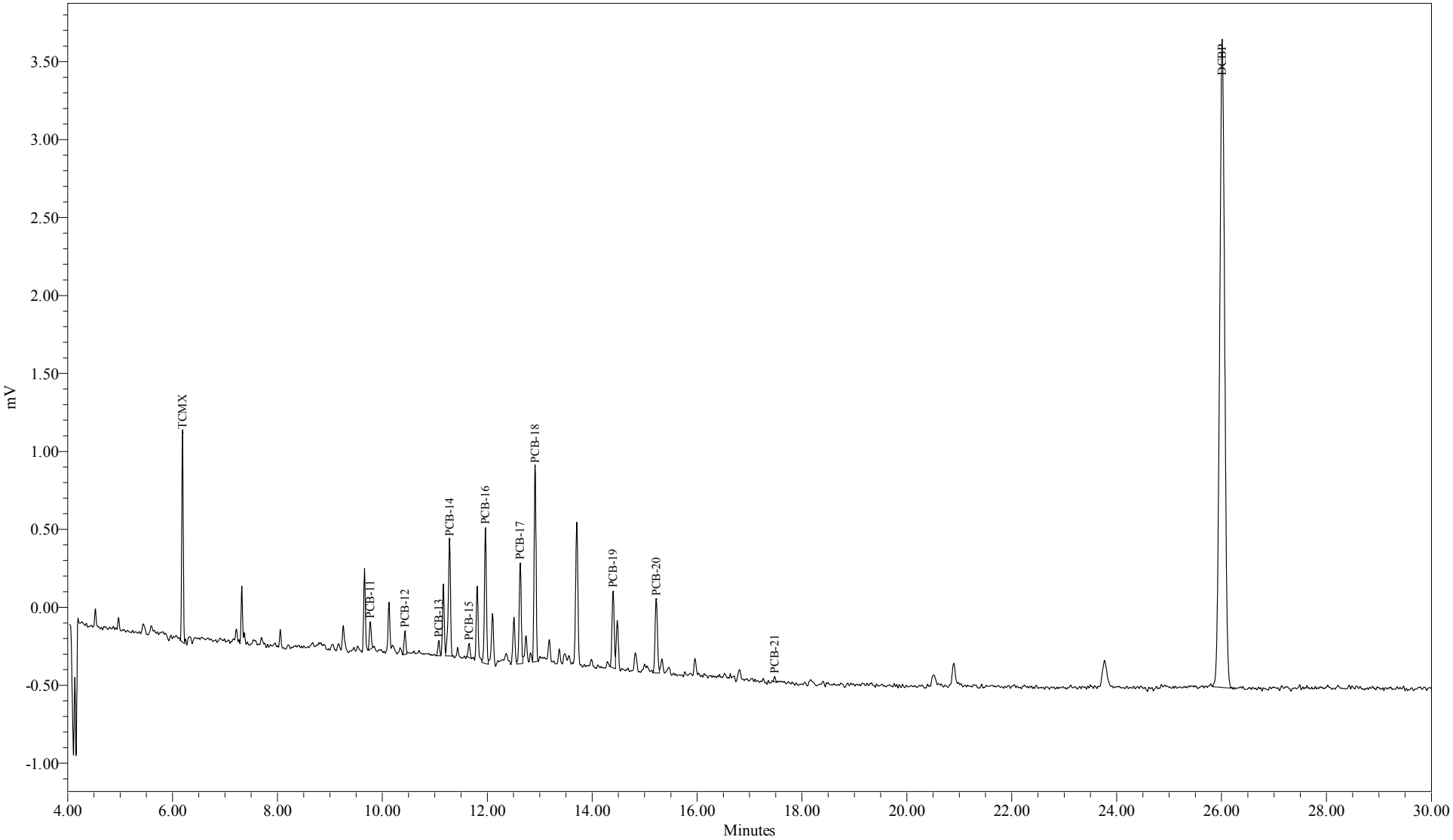

Sample Name:	AP02450	Sample Amount (L) :	1.0800
Sample ID:	MW-27D	Dilution:	20
Date Acquired:	3/6/2012 2:39:14 PM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-9

Sample Name: AP02450

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
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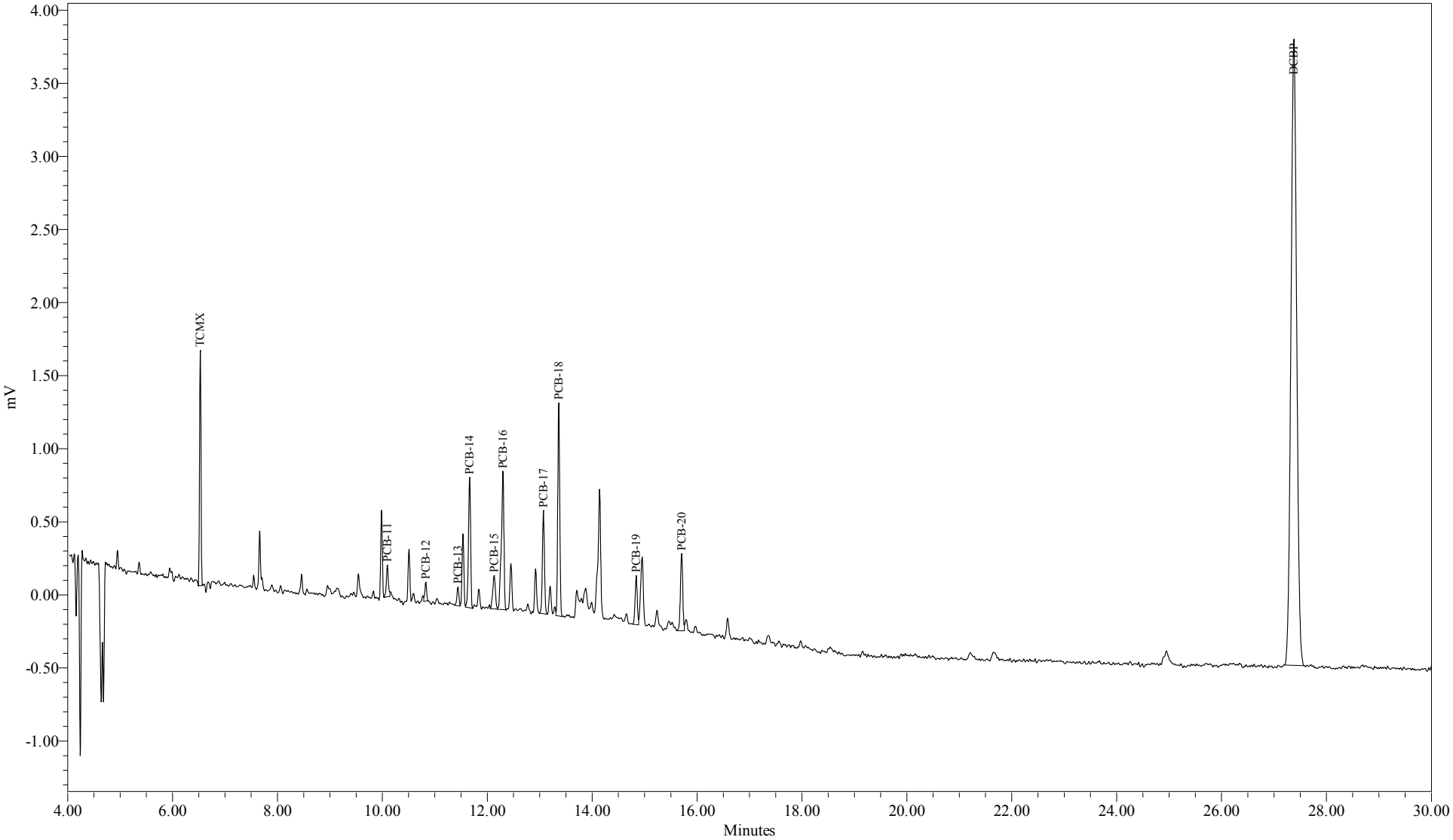


Sample Name:	AP02450	Sample Amount (L) :	1.0800
Sample ID:	MW-27D	Dilution:	20
Date Acquired:	3/6/2012 2:39:18 PM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-9

Sample Name: AP02450

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-27D
LRF Sample ID:	12020228-04	Lab Sample ID:	AP02450
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 2:39:14 PM	Date Analyzed:	03/06/2012 2:39:18 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-9	Lab File ID 2:	GC23B-857-9
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.74	7.90			
		2	NA	8.13	8.29			
		3	NA	8.76	8.92			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	NA	8.13	8.29			
		3	NA	8.77	8.93			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
Aroclor 1242	1	1	NA	7.74	7.90			
		2	NA	8.12	8.28			
		3	NA	8.76	8.92			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-27D
LRF Sample ID:	12020228-04	Lab Sample ID:	AP02450
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 2:39:14 PM	Date Analyzed:	03/06/2012 2:39:18 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-9	Lab File ID 2:	GC23B-857-9
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.77	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.08	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.65	11.59	11.75	0.204		
	2	1	10.09	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.44	11.38	11.54			
		4	11.66	11.58	11.74			
		5	12.13	12.06	12.22	0.206	0.976	
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.22	15.17	15.33	0.605		
	2	1	12.30	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.84	14.79	14.95			
		5	15.71	15.66	15.82	0.581	4.05	
Aroclor 1260	1	1	15.22	15.17	15.33			
		2	17.48	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	12020228-05
Matrix:	Water	Client ID:	MW-27R
Sample wt(Dry)/vol:	1040 mL	Lab Sample ID:	AP02451
Percent Moisture:	100	Date Received:	02/29/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	70
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-855-10

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-857-10

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	3.50	U
1	11104-28-2	Aroclor 1221	3.50	U
1	11141-16-5	Aroclor 1232	3.50	U
1	53469-21-9	Aroclor 1242	3.50	U
1	12672-29-6	Aroclor 1248	11.5	PE
1	11097-69-1	Aroclor 1254	13.0	AF
1	11096-82-5	Aroclor 1260	3.50	U

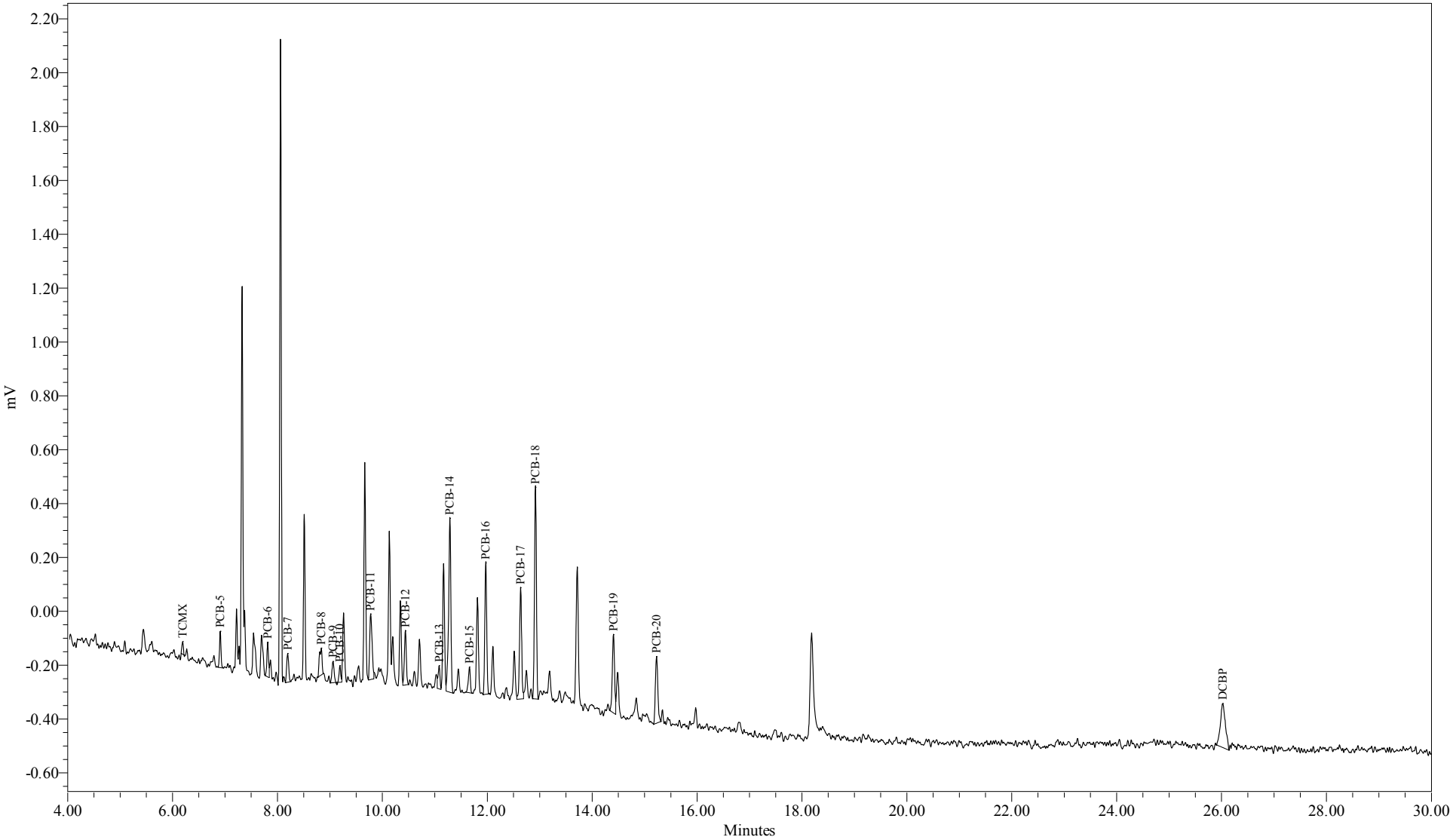
Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

6

FORM I-CLP-PCB (NEA-PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
www.pacelabs.com



Sample Name:	AP02451	Sample Amount (L) :	1.0400
Sample ID:	MW-27R	Dilution:	700
Date Acquired:	3/6/2012 3:11:50 PM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-10

Sample Name: AP02451

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
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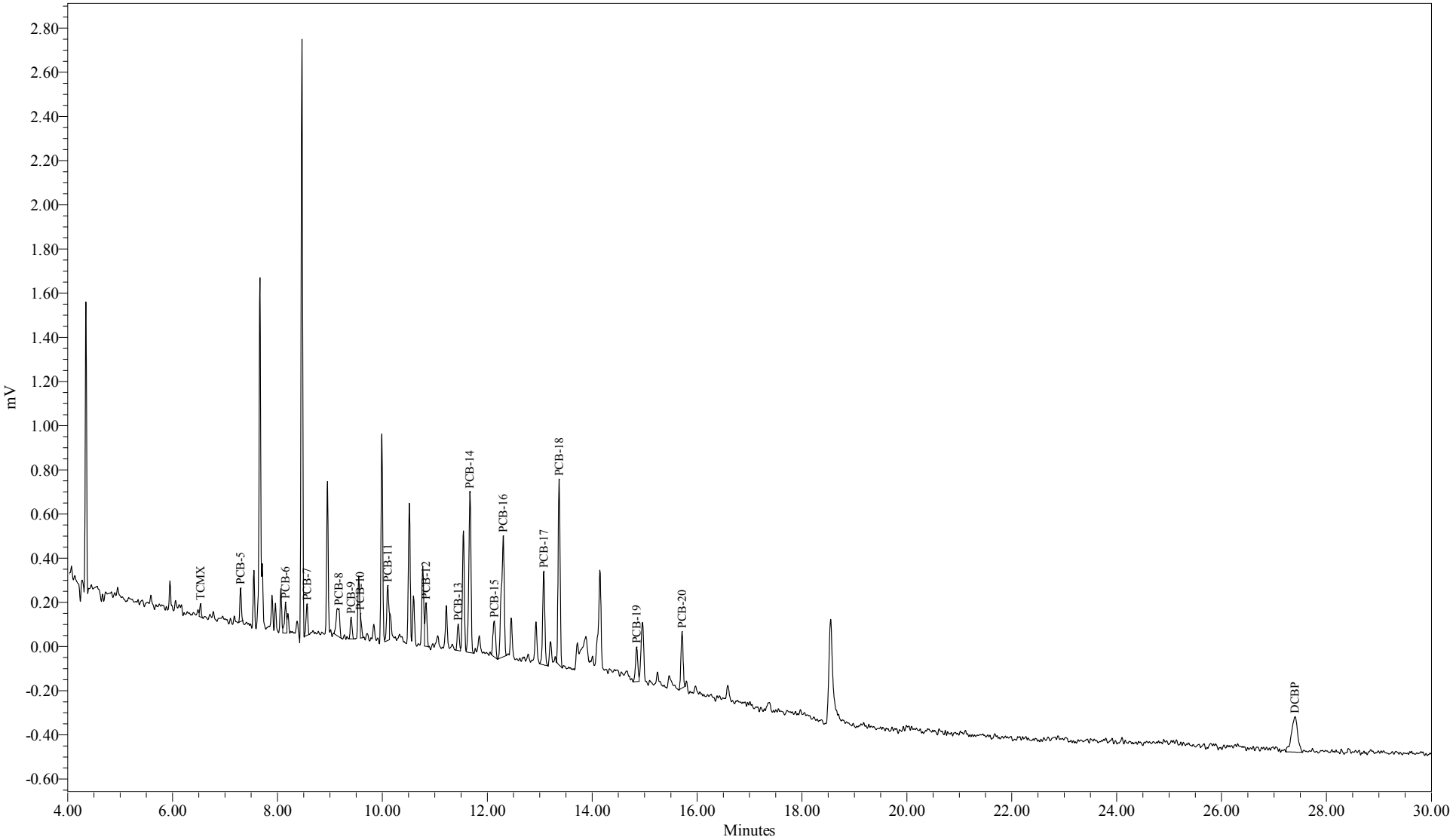

Sample Name:	AP02451	Sample Amount (L) :	1.0400
Sample ID:	MW-27R	Dilution:	700
Date Acquired:	3/6/2012 3:11:54 PM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-10

Sample Name: AP02451

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-27R
LRF Sample ID:	12020228-05	Lab Sample ID:	AP02451
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 3:11:50 PM	Date Analyzed:	03/06/2012 3:11:54 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-10	Lab File ID 2:	GC23B-857-10
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	6.91	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	7.30	7.22	7.38			
Aroclor 1232	1	1	6.91	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.84	8.77	8.93			
		4	9.06	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	7.30	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-27R
LRF Sample ID:	12020228-05	Lab Sample ID:	AP02451
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 3:11:50 PM	Date Analyzed:	03/06/2012 3:11:54 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-10	Lab File ID 2:	GC23B-857-10
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.78	9.70	9.86			
		2	10.44	10.37	10.53			
		3	11.08	11.02	11.18			
		4	11.29	11.19	11.35			
		5	11.66	11.59	11.75	11.5		
	2	1	10.10	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.45	11.38	11.54			
		4	11.67	11.58	11.74			
		5	12.13	12.06	12.22	9.73	16.7	
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.64	12.57	12.73			
		3	12.92	12.86	13.02			
		4	14.41	14.35	14.51			
		5	15.23	15.17	15.33	13.0		
	2	1	12.30	12.24	12.40			
		2	13.08	13.02	13.18			
		3	13.37	13.31	13.47			
		4	14.85	14.79	14.95			
		5	15.71	15.66	15.82	12.3	5.53	
Aroclor 1260	1	1	15.23	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	12020228-06
Matrix:	Water	Client ID:	MW-D
Sample wt(Dry)/vol:	990 mL	Lab Sample ID:	AP02452
Percent Moisture:	100	Date Received:	02/29/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	70
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-855-11

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-857-11

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	3.54	U
1	11104-28-2	Aroclor 1221	3.54	U
1	11141-16-5	Aroclor 1232	3.54	U
1	53469-21-9	Aroclor 1242	3.54	U
1	12672-29-6	Aroclor 1248	9.99	PE
1	11097-69-1	Aroclor 1254	10.6	AF
1	11096-82-5	Aroclor 1260	3.54	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

6

FORM I-CLP-PCB (NEA-PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
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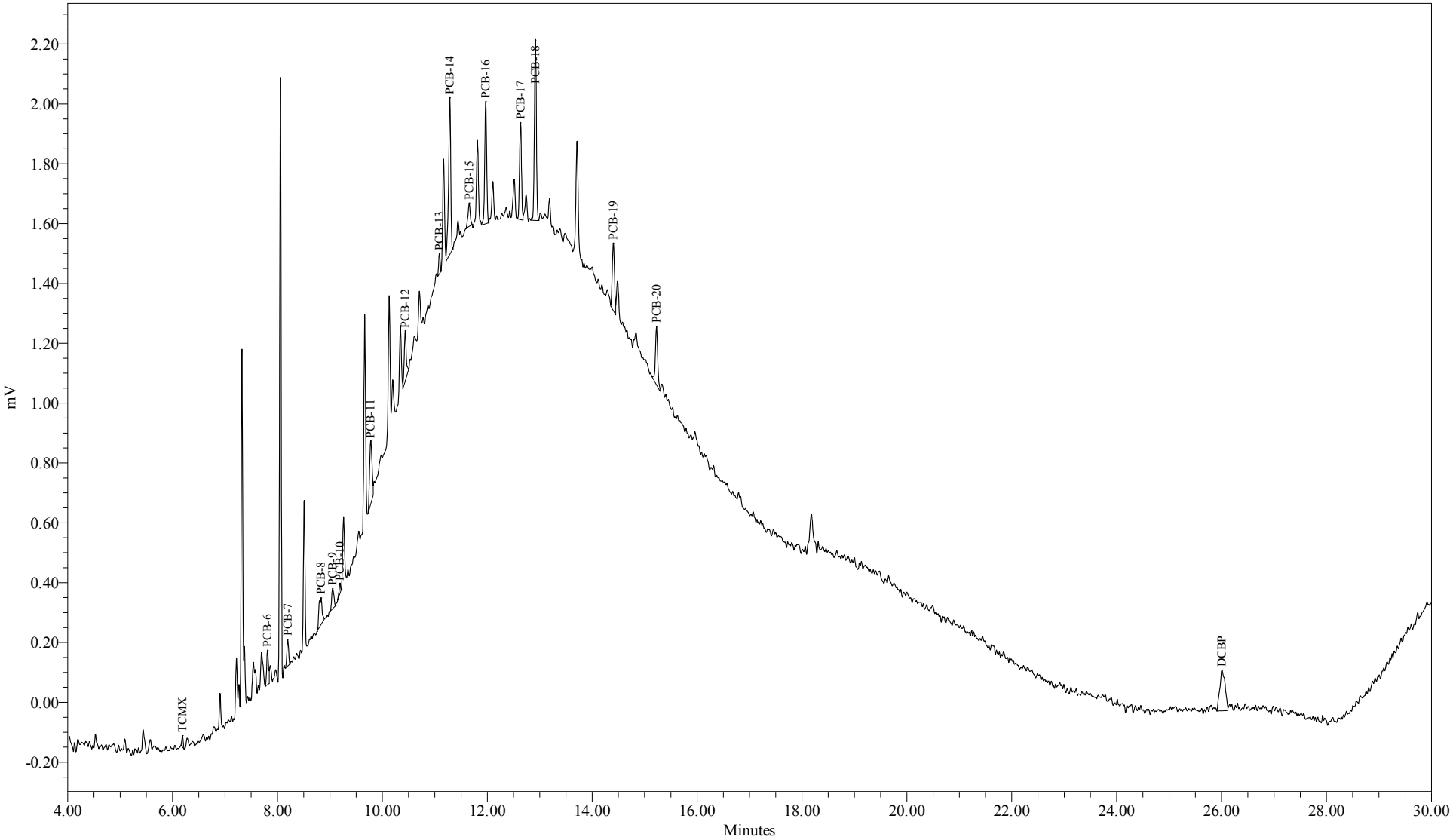

Sample Name:	AP02452	Sample Amount (L) :	0.9900
Sample ID:	MW-D	Dilution:	700
Date Acquired:	3/6/2012 3:44:27 PM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-11

Sample Name: AP02452

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
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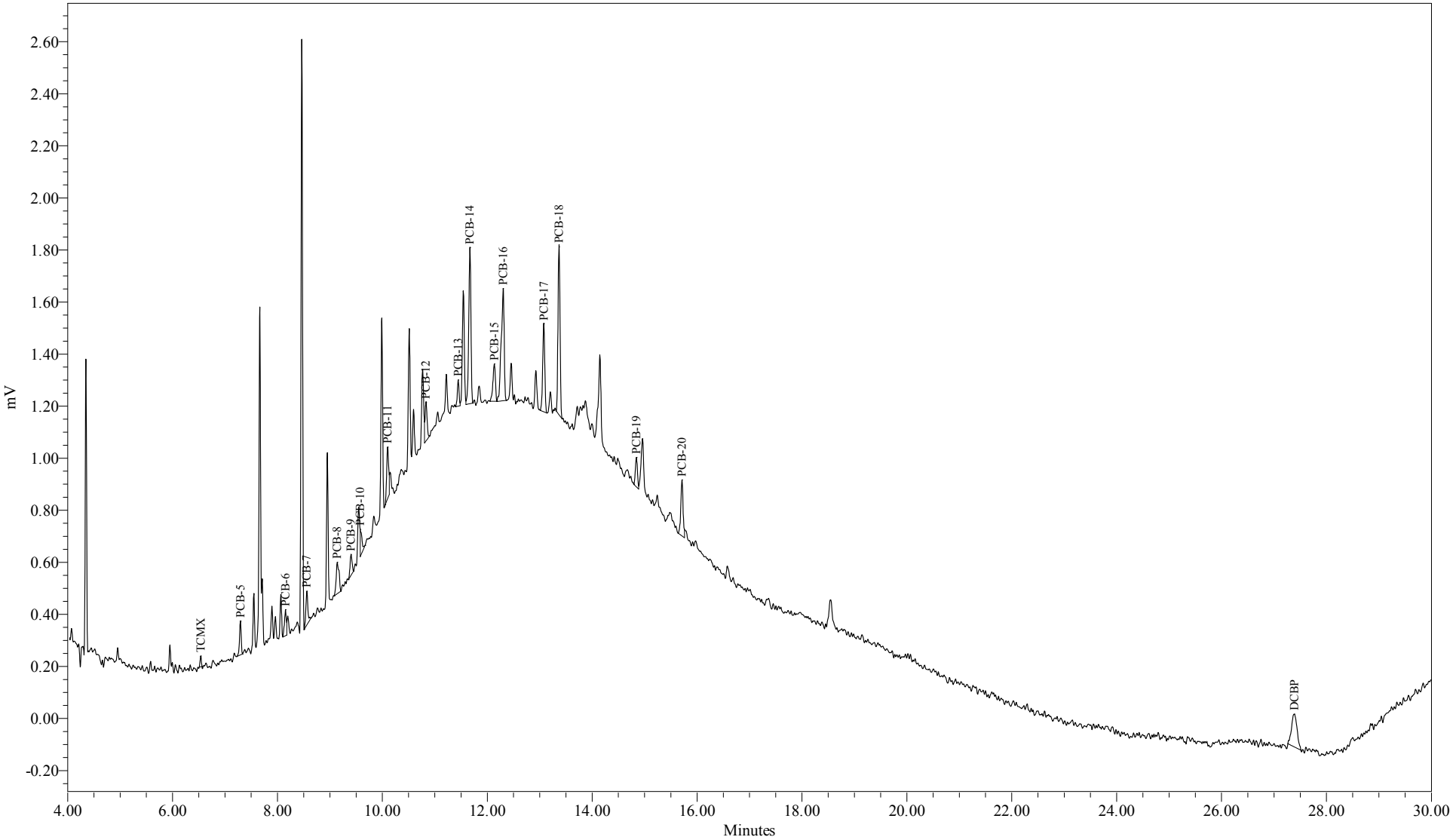


Sample Name:	AP02452	Sample Amount (L) :	0.9900
Sample ID:	MW-D	Dilution:	700
Date Acquired:	3/6/2012 3:44:31 PM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-11

Sample Name: AP02452

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-D
LRF Sample ID:	12020228-06	Lab Sample ID:	AP02452
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 3:44:27 PM	Date Analyzed:	03/06/2012 3:44:31 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-11	Lab File ID 2:	GC23B-857-11
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.20	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.14	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	7.29	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	8.20	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	7.29	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.14	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.20	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.14	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-D
LRF Sample ID:	12020228-06	Lab Sample ID:	AP02452
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 3:44:27 PM	Date Analyzed:	03/06/2012 3:44:31 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-11	Lab File ID 2:	GC23B-857-11
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.78	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.09	11.02	11.18			
		4	11.29	11.19	11.35			
		5	11.66	11.59	11.75	9.99		
	2	1	10.10	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.45	11.38	11.54			
		4	11.67	11.58	11.74			
		5	12.14	12.06	12.22	7.48	28.7	
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.92	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.23	15.17	15.33	10.6		
	2	1	12.30	12.24	12.40			
		2	13.08	13.02	13.18			
		3	13.37	13.31	13.47			
		4	14.84	14.79	14.95			
		5	15.71	15.66	15.82	10.2	3.85	
Aroclor 1260	1	1	15.23	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	12020228-07
Matrix:	Water	Client ID:	MW-32
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AP02453
Percent Moisture:	100	Date Received:	02/29/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	03/05/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-855-12

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-857-12

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0889	PE
1	11097-69-1	Aroclor 1254	0.242	AF
1	11096-82-5	Aroclor 1260	0.0500	U

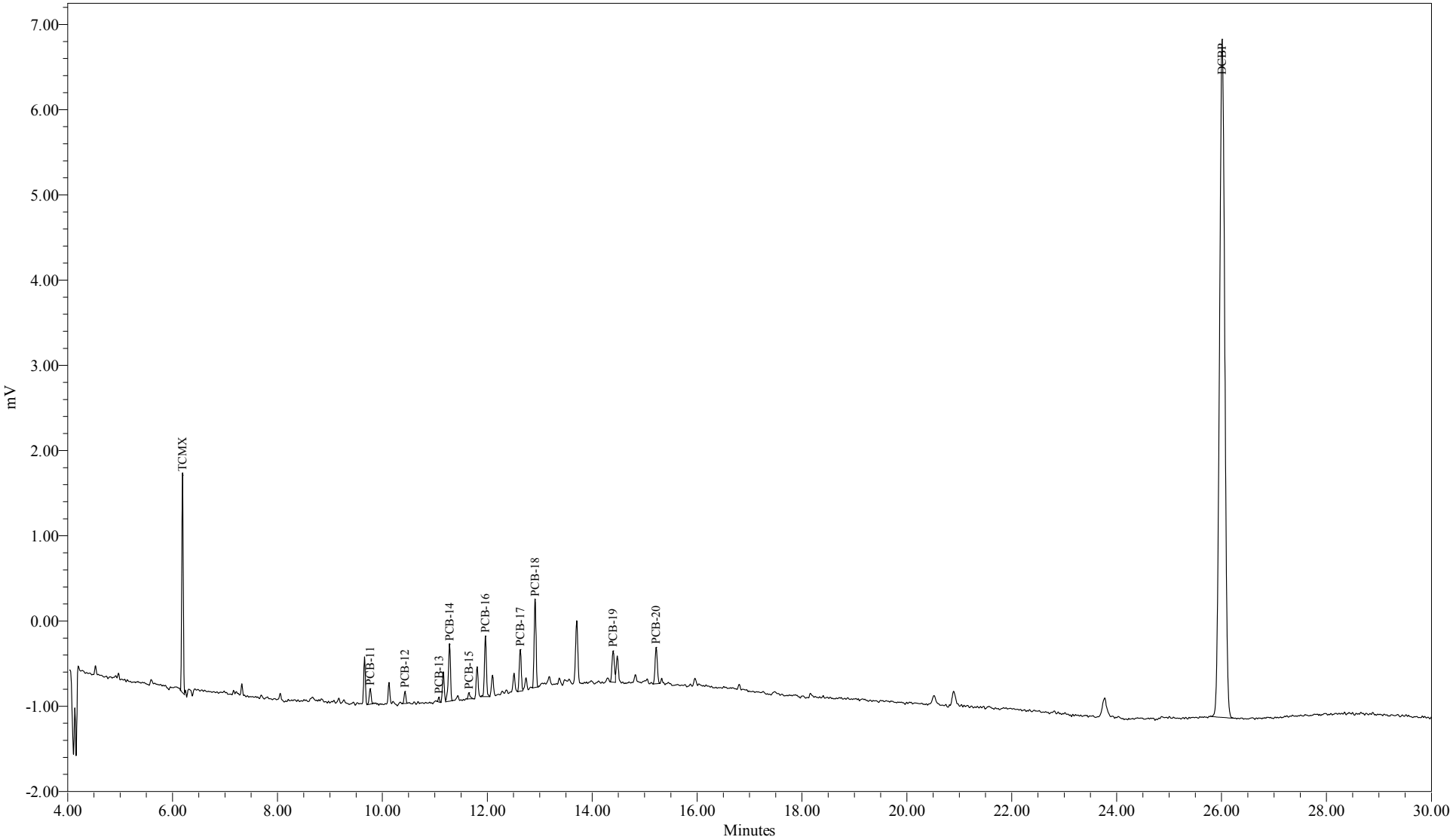
Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

6

FORM I-CLP-PCB (NEA-PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
www.pacelabs.com



Sample Name:	AP02453	Sample Amount (L) :	1.0800
Sample ID:	MW-32	Dilution:	10
Date Acquired:	3/6/2012 4:17:04 PM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-12

Sample Name: AP02453

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
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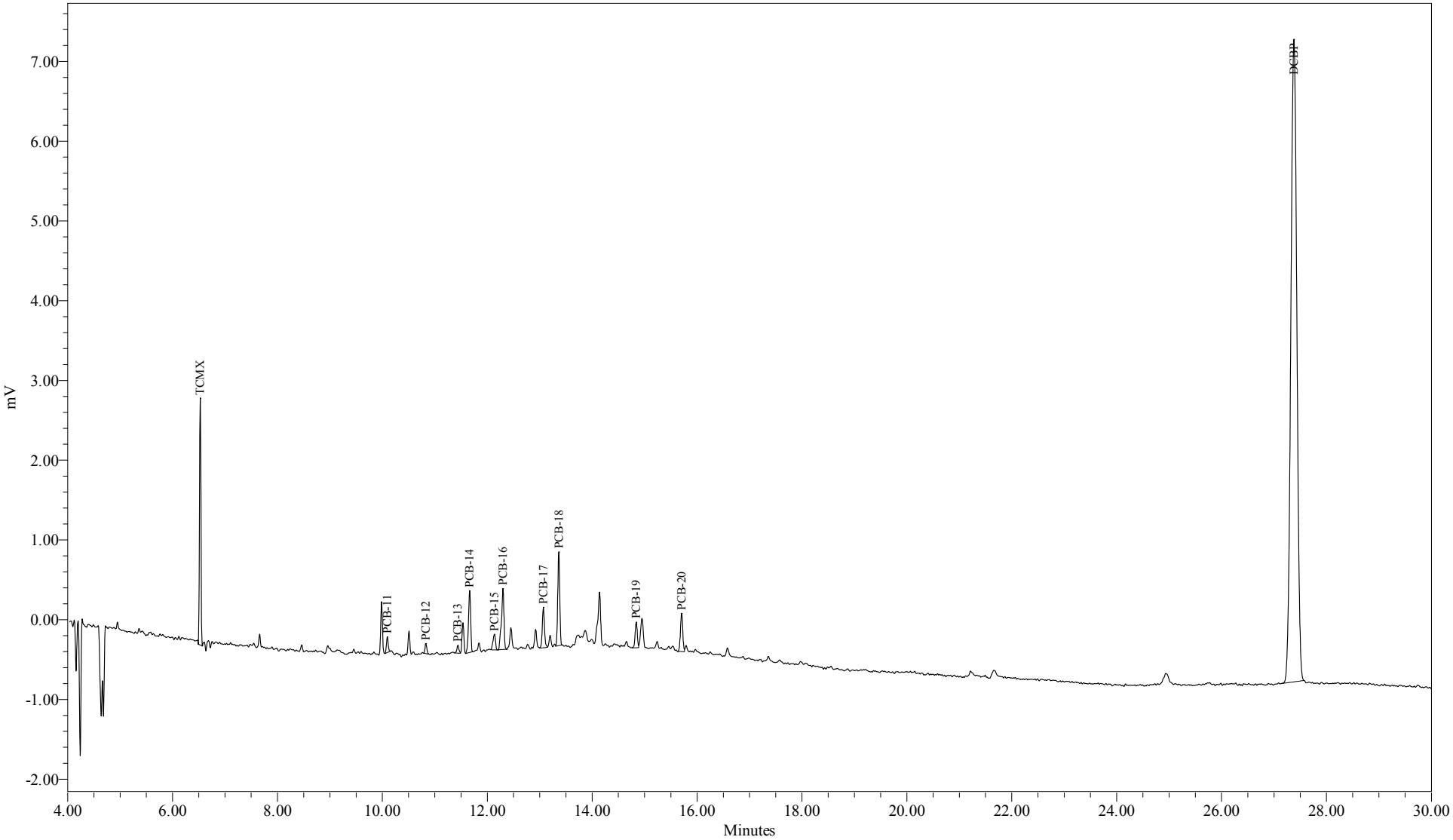

Sample Name:	AP02453	Sample Amount (L) :	1.0800
Sample ID:	MW-32	Dilution:	10
Date Acquired:	3/6/2012 4:17:08 PM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-12

Sample Name: AP02453

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-32
LRF Sample ID:	12020228-07	Lab Sample ID:	AP02453
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 4:17:04 PM	Date Analyzed:	03/06/2012 4:17:08 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-12	Lab File ID 2:	GC23B-857-12
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.74	7.90			
		2	NA	8.13	8.29			
		3	NA	8.76	8.92			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	NA	8.13	8.29			
		3	NA	8.77	8.93			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
Aroclor 1242	1	1	NA	7.74	7.90			
		2	NA	8.12	8.28			
		3	NA	8.76	8.92			
		4	NA	8.98	9.14			
		5	NA	9.12	9.28			
	2	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	MW-32
LRF Sample ID:	12020228-07	Lab Sample ID:	AP02453
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 4:17:04 PM	Date Analyzed:	03/06/2012 4:17:08 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-12	Lab File ID 2:	GC23B-857-12
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.77	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.08	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.65	11.59	11.75	0.0889		
	2	1	10.09	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.44	11.38	11.54			
		4	11.66	11.58	11.74			
		5	12.14	12.06	12.22	0.0866	2.62	
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.22	15.17	15.33	0.242		
	2	1	12.30	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.84	14.79	14.95			
		5	15.71	15.66	15.82	0.239	1.25	
Aroclor 1260	1	1	15.22	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

ANALYTICAL SEQUENCE (GC23F)

7

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12020228

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.20 DCBP RT: 26.11

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	011216A	GC23F-823-13	01/12/2012 17:50:19		
02	A1016 10 PPB	011216B	GC23F-823-14	01/12/2012 18:23:03		
03	A1016 20 PPB	011216C	GC23F-823-15	01/12/2012 18:55:40		
04	A1016 50 PPB	011216D	GC23F-823-16	01/12/2012 19:28:19		
05	A1016 100 PPB	011216E	GC23F-823-17	01/12/2012 20:00:57		
06	A1221 5 PPB	011221A	GC23F-823-18	01/12/2012 20:33:42		
07	A1221 10 PPB	011221B	GC23F-823-19	01/12/2012 21:06:23		
08	A1221 20 PPB	011221C	GC23F-823-20	01/12/2012 21:39:00		
09	A1221 50 PPB	011221D	GC23F-823-21	01/12/2012 22:11:42		
10	A1221 100 PPB	011221E	GC23F-823-22	01/12/2012 22:44:21		
11	A1232 5 PPB	011232A	GC23F-823-23	01/12/2012 23:17:05		
12	A1232 10 PPB	011232B	GC23F-823-24	01/12/2012 23:49:49		
13	A1232 20 PPB	011232C	GC23F-823-25	01/13/2012 00:22:27		
14	A1232 50 PPB	011232D	GC23F-823-26	01/13/2012 00:55:04		
15	A1232 100 PPB	011232E	GC23F-823-27	01/13/2012 01:27:49		
16	A1242 5 PPB	011242A	GC23F-823-28	01/13/2012 02:00:32		
17	A1242 10 PPB	011242B	GC23F-823-29	01/13/2012 02:33:15		
18	A1242 20 PPB	011242C	GC23F-823-30	01/13/2012 03:05:53		
19	A1242 50 PPB	011242D	GC23F-823-31	01/13/2012 03:38:36		
20	A1242 100 PPB	011242E	GC23F-823-32	01/13/2012 04:11:20		
21	A1248 5 PPB	011248A	GC23F-823-33	01/13/2012 04:43:59		
22	A1248 10 PPB	011248B	GC23F-823-34	01/13/2012 05:16:43		
23	A1248 20 PPB	011248C	GC23F-823-35	01/13/2012 05:49:27		
24	A1248 50 PPB	011248D	GC23F-823-36	01/13/2012 06:22:12		
25	A1248 100 PPB	011248E	GC23F-823-37	01/13/2012 06:54:56		
26	A1254 5 PPB	011254A	GC23F-823-38	01/13/2012 07:27:39	6.20	26.11
27	A1254 10 PPB	011254B	GC23F-823-39	01/13/2012 08:00:23	6.20	26.11
28	A1254 20 PPB	011254C	GC23F-823-40	01/13/2012 08:33:00	6.21	26.11
29	A1254 50 PPB	011254D	GC23F-823-41	01/13/2012 09:05:45	6.20	26.10
30	A1254 100 PPB	011254E	GC23F-823-42	01/13/2012 09:38:29	6.20	26.10
31	A1260 5 PPB	011260A	GC23F-823-43	01/13/2012 10:11:14		
32	A1260 10 PPB	011260B	GC23F-823-44	01/13/2012 10:43:58		
33	A1260 20 PPB	011260C	GC23F-823-45	01/13/2012 11:16:37		
34	A1260 50 PPB	011260D	GC23F-823-46	01/13/2012 11:49:14		
35	A1260 100 PPB	011260E	GC23F-823-47	01/13/2012 12:21:57		
36	A1262 5 PPB	011262A	GC23F-823-48	01/13/2012 12:54:39		
37	A1262 10 PPB	011262B	GC23F-823-49	01/13/2012 13:27:23		
38	A1262 20 PPB	011262C	GC23F-823-50	01/13/2012 14:00:01		

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12020228

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.20 DCBP RT: 26.11

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 50 PPB	011262D	GC23F-823-51	01/13/2012 14:32:44		
40	A1262 100 PPB	011262E	GC23F-823-52	01/13/2012 15:05:28		
41	A1268 5 PPB	011268A	GC23F-823-53	01/13/2012 15:38:11		
42	A1268 10 PPB	011268B	GC23F-823-54	01/13/2012 16:10:56		
43	A1268 20 PPB	011268C	GC23F-823-55	01/13/2012 16:43:34		
44	A1268 50 PPB	011268D	GC23F-823-56	01/13/2012 17:16:12		
45	A1268 100 PPB	011268E	GC23F-823-57	01/13/2012 17:48:57		
46	A1016 50 PPB	CS160112A	GC23F-823-59	01/13/2012 18:54:13	6.20	26.09
47	A1221 50 PPB	CS210112A	GC23F-823-60	01/13/2012 19:26:51	6.20	26.09
48	A1232 50 PPB	CS320112A	GC23F-823-61	01/13/2012 19:59:29	6.20	26.08
49	A1242 50 PPB	CS420112A	GC23F-823-62	01/13/2012 20:32:12	6.20	26.08
50	A1248 50 PPB	CS480112B	GC23F-823-63	01/13/2012 21:04:55	6.20	26.08
51	A1254 50 PPB	CS540112D	GC23F-823-64	01/13/2012 21:37:32	6.20	26.09
52	A1260 50 PPB	CS600112A	GC23F-823-65	01/13/2012 22:10:16	6.20	26.08
53	A1262 50 PPB	CS620112A	GC23F-823-66	01/13/2012 22:42:53	6.20	26.08
54	A1268 50 PPB	CS680112A	GC23F-823-67	01/13/2012 23:15:30	6.20	26.09
55	A1016 50 PPB	CS160306A	GC23F-855-3	03/06/2012 09:15:05	6.19	26.01
56	PBLK-26(METHOD BLANK)	AP02447B	GC23F-855-4	03/06/2012 11:56:00	6.20	26.04
57	LCS-26(LAB CONTROL SPIKE)	AP02447L	GC23F-855-5	03/06/2012 12:28:36	6.19	26.01
58	MW-5D	AP02447	GC23F-855-6	03/06/2012 13:01:19	6.19	26.01
59	MW-28	AP02448	GC23F-855-7	03/06/2012 13:34:01	6.19(D)	26.01(D)
60	MW-5	AP02449	GC23F-855-8	03/06/2012 14:06:38	6.19	26.02
61	MW-27D	AP02450	GC23F-855-9	03/06/2012 14:39:14	6.19	26.01
62	MW-27R	AP02451	GC23F-855-10	03/06/2012 15:11:50	6.19(D)	26.02(D)
63	MW-D	AP02452	GC23F-855-11	03/06/2012 15:44:27	6.19(D)	26.01(D)
64	MW-32	AP02453	GC23F-855-12	03/06/2012 16:17:04	6.19	26.01
65	A1221 50 PPB	CS210306A	GC23F-855-13	03/06/2012 16:49:40	6.19	26.02

Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC23F)

8

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12020228
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC23F-823-13	011216A	5.00	224.683		
	GC23F-823-14	011216B	10.0	211.438		
	GC23F-823-15	011216C	20.0	195.178		
	GC23F-823-16	011216D	50.0	189.231		
	GC23F-823-17	011216E	100	184.848	201.076	8.3
Aroclor 1221	GC23F-823-18	011221A	5.00	49.334		
	GC23F-823-19	011221B	10.0	48.795		
	GC23F-823-20	011221C	20.0	49.956		
	GC23F-823-21	011221D	50.0	47.885		
	GC23F-823-22	011221E	100	45.666	48.327	3.5
Aroclor 1232	GC23F-823-23	011232A	5.00	104.574		
	GC23F-823-24	011232B	10.0	93.632		
	GC23F-823-25	011232C	20.0	96.723		
	GC23F-823-26	011232D	50.0	93.741		
	GC23F-823-27	011232E	100	91.258	95.986	5.4
Aroclor 1242	GC23F-823-28	011242A	5.00	184.540		
	GC23F-823-29	011242B	10.0	183.280		
	GC23F-823-30	011242C	20.0	180.571		
	GC23F-823-31	011242D	50.0	167.575		
	GC23F-823-32	011242E	100	174.989	178.191	3.9
Aroclor 1248	GC23F-823-33	011248A	5.00	175.197		
	GC23F-823-34	011248B	10.0	210.875		
	GC23F-823-35	011248C	20.0	178.546		
	GC23F-823-36	011248D	50.0	174.921		
	GC23F-823-37	011248E	100	175.835	183.075	8.5
Aroclor 1254	GC23F-823-38	011254A	5.00	331.728		
	GC23F-823-39	011254B	10.0	329.174		
	GC23F-823-40	011254C	20.0	311.645		
	GC23F-823-41	011254D	50.0	304.894		
	GC23F-823-42	011254E	100	315.787	318.645	3.6
Aroclor 1260	GC23F-823-43	011260A	5.00	486.730		
	GC23F-823-44	011260B	10.0	424.985		
	GC23F-823-45	011260C	20.0	423.665		
	GC23F-823-46	011260D	50.0	427.423		
	GC23F-823-47	011260E	100	416.368	435.834	6.6
Aroclor 1262	GC23F-823-48	011262A	5.00	582.851		
	GC23F-823-49	011262B	10.0	483.125		
	GC23F-823-50	011262C	20.0	483.492		
	GC23F-823-51	011262D	50.0	455.903		
	GC23F-823-52	011262E	100	465.014	494.077	10

FORM VI-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12020228
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC23F-823-53	011268A	5.00	960.107		
	GC23F-823-54	011268B	10.0	934.519		
	GC23F-823-55	011268C	20.0	800.826		
	GC23F-823-56	011268D	50.0	786.498		
	GC23F-823-57	011268E	100	877.040	871.798	8.9
TCMX	GC23F-823-38	011254A	1.00	1097.318		
	GC23F-823-39	011254B	2.50	1118.525		
	GC23F-823-40	011254C	4.00	1179.526		
	GC23F-823-41	011254D	5.00	1137.682		
	GC23F-823-42	011254E	8.00	1115.034	1129.620	2.8
DCBP	GC23F-823-38	011254A	10.0	1139.073		
	GC23F-823-39	011254B	25.0	1115.208		
	GC23F-823-40	011254C	40.0	1170.411		
	GC23F-823-41	011254D	50.0	1127.514		
	GC23F-823-42	011254E	80.0	1097.881	1130.020	2.4

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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INITIAL/CONTINUING CALIBRATION DATA (GC23F)

9

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12020228

ELAP ID No: 11078

Instrument ID: GC23F

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC23F-823-59	CS160112A	ICV	52.1	50	4.26		01/13/2012 18:54:13
Aroclor 1221	GC23F-823-60	CS210112A	ICV	56.1	50	12.2		01/13/2012 19:26:51
Aroclor 1232	GC23F-823-61	CS320112A	ICV	49.0	50	-1.96		01/13/2012 19:59:29
Aroclor 1242	GC23F-823-62	CS420112A	ICV	45.3	50	-9.47		01/13/2012 20:32:12
Aroclor 1248	GC23F-823-63	CS480112B	ICV	51.2	50	2.43		01/13/2012 21:04:55
Aroclor 1254	GC23F-823-64	CS540112D	ICV	49.7	50	-0.678		01/13/2012 21:37:32
Aroclor 1260	GC23F-823-65	CS600112A	ICV	50.0	50	-0.0159		01/13/2012 22:10:16
Aroclor 1262	GC23F-823-66	CS620112A	ICV	48.2	50	-3.61		01/13/2012 22:42:53
Aroclor 1268	GC23F-823-67	CS680112A	ICV	47.1	50	-5.89		01/13/2012 23:15:30
Aroclor 1016	GC23F-855-3	CS160306A	CCV	53.0	50	6.09		03/06/2012 09:15:05
Aroclor 1221	GC23F-855-13	CS210306A	CCV	54.0	50	8.04		03/06/2012 16:49:40

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12020228
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23F-823-59	CS160112A	ICV	1	7.82	7.74	7.90
		CS160112A	ICV	2	8.21	8.13	8.29
		CS160112A	ICV	3	8.84	8.76	8.92
		CS160112A	ICV	4	9.06	8.98	9.14
		CS160112A	ICV	5	9.20	9.12	9.28
Aroclor 1221	GC23F-823-60	CS210112A	ICV	1	4.78	4.70	4.86
		CS210112A	ICV	2	6.04	5.96	6.12
		CS210112A	ICV	3	6.60	6.52	6.68
		CS210112A	ICV	4	6.79	6.71	6.87
		CS210112A	ICV	5	6.92	6.84	7.00
Aroclor 1232	GC23F-823-61	CS320112A	ICV	1	6.92	6.84	7.00
		CS320112A	ICV	2	8.21	8.13	8.29
		CS320112A	ICV	3	8.85	8.77	8.93
		CS320112A	ICV	4	9.06	8.98	9.14
		CS320112A	ICV	5	9.20	9.12	9.28
Aroclor 1242	GC23F-823-62	CS420112A	ICV	1	7.82	7.74	7.90
		CS420112A	ICV	2	8.20	8.12	8.28
		CS420112A	ICV	3	8.84	8.76	8.92
		CS420112A	ICV	4	9.06	8.98	9.14
		CS420112A	ICV	5	9.20	9.12	9.28
Aroclor 1248	GC23F-823-63	CS480112B	ICV	1	9.78	9.70	9.86
		CS480112B	ICV	2	10.45	10.37	10.53
		CS480112B	ICV	3	11.10	11.02	11.18
		CS480112B	ICV	4	11.27	11.19	11.35
		CS480112B	ICV	5	11.67	11.59	11.75
Aroclor 1254	GC23F-823-64	CS540112D	ICV	1	11.99	11.91	12.07
		CS540112D	ICV	2	12.65	12.57	12.73
		CS540112D	ICV	3	12.94	12.86	13.02
		CS540112D	ICV	4	14.43	14.35	14.51
		CS540112D	ICV	5	15.25	15.17	15.33
Aroclor 1260	GC23F-823-65	CS600112A	ICV	1	15.25	15.17	15.33
		CS600112A	ICV	2	17.50	17.42	17.58
		CS600112A	ICV	3	18.42	18.34	18.50
		CS600112A	ICV	4	19.22	19.14	19.30
		CS600112A	ICV	5	21.48	21.40	21.56
Aroclor 1262	GC23F-823-66	CS620112A	ICV	1	15.25	15.17	15.33
		CS620112A	ICV	2	17.51	17.43	17.59
		CS620112A	ICV	3	18.43	18.35	18.51

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FORM VII-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12020228
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620112A	ICV	4	19.22	19.14	19.30
		CS620112A	ICV	5	21.48	21.40	21.56
Aroclor 1268	GC23F-823-67	CS680112A	ICV	1	19.22	19.14	19.30
		CS680112A	ICV	2	21.49	21.41	21.57
		CS680112A	ICV	3	18.99	18.91	19.07
		CS680112A	ICV	4	20.56	20.48	20.64
		CS680112A	ICV	5	20.94	20.86	21.02

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12020228
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23F-855-3	CS160306A	CCV	1	7.81	7.74	7.90
		CS160306A	CCV	2	8.20	8.13	8.29
		CS160306A	CCV	3	8.83	8.76	8.92
		CS160306A	CCV	4	9.05	8.98	9.14
		CS160306A	CCV	5	9.19	9.12	9.28
Aroclor 1221	GC23F-855-13	CS210306A	CCV	1	4.77	4.70	4.86
		CS210306A	CCV	2	6.04	5.96	6.12
		CS210306A	CCV	3	6.59	6.52	6.68
		CS210306A	CCV	4	6.79	6.71	6.87
		CS210306A	CCV	5	6.91	6.84	7.00

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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ANALYTICAL SEQUENCE (GC23B)

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12020228

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.54 DCBP RT: 27.48

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	011216A	GC23B-823-13	01/12/2012 17:50:23		
02	A1016 10 PPB	011216B	GC23B-823-14	01/12/2012 18:23:07		
03	A1016 20 PPB	011216C	GC23B-823-15	01/12/2012 18:55:45		
04	A1016 50 PPB	011216D	GC23B-823-16	01/12/2012 19:28:23		
05	A1016 100 PPB	011216E	GC23B-823-17	01/12/2012 20:01:01		
06	A1221 5 PPB	011221A	GC23B-823-18	01/12/2012 20:33:45		
07	A1221 10 PPB	011221B	GC23B-823-19	01/12/2012 21:06:27		
08	A1221 20 PPB	011221C	GC23B-823-20	01/12/2012 21:39:04		
09	A1221 50 PPB	011221D	GC23B-823-21	01/12/2012 22:11:46		
10	A1221 100 PPB	011221E	GC23B-823-22	01/12/2012 22:44:25		
11	A1232 5 PPB	011232A	GC23B-823-23	01/12/2012 23:17:09		
12	A1232 10 PPB	011232B	GC23B-823-24	01/12/2012 23:49:53		
13	A1232 20 PPB	011232C	GC23B-823-25	01/13/2012 00:22:31		
14	A1232 50 PPB	011232D	GC23B-823-26	01/13/2012 00:55:08		
15	A1232 100 PPB	011232E	GC23B-823-27	01/13/2012 01:27:53		
16	A1242 5 PPB	011242A	GC23B-823-28	01/13/2012 02:00:36		
17	A1242 10 PPB	011242B	GC23B-823-29	01/13/2012 02:33:19		
18	A1242 20 PPB	011242C	GC23B-823-30	01/13/2012 03:05:57		
19	A1242 50 PPB	011242D	GC23B-823-31	01/13/2012 03:38:40		
20	A1242 100 PPB	011242E	GC23B-823-32	01/13/2012 04:11:24		
21	A1248 5 PPB	011248A	GC23B-823-33	01/13/2012 04:44:03		
22	A1248 10 PPB	011248B	GC23B-823-34	01/13/2012 05:16:47		
23	A1248 20 PPB	011248C	GC23B-823-35	01/13/2012 05:49:31		
24	A1248 50 PPB	011248D	GC23B-823-36	01/13/2012 06:22:16		
25	A1248 100 PPB	011248E	GC23B-823-37	01/13/2012 06:55:00		
26	A1254 5 PPB	011254A	GC23B-823-38	01/13/2012 07:27:43	6.54	27.49
27	A1254 10 PPB	011254B	GC23B-823-39	01/13/2012 08:00:27	6.54	27.48
28	A1254 20 PPB	011254C	GC23B-823-40	01/13/2012 08:33:05	6.54	27.48
29	A1254 50 PPB	011254D	GC23B-823-41	01/13/2012 09:05:49	6.54	27.47
30	A1254 100 PPB	011254E	GC23B-823-42	01/13/2012 09:38:33	6.54	27.47
31	A1260 5 PPB	011260A	GC23B-823-43	01/13/2012 10:11:18		
32	A1260 10 PPB	011260B	GC23B-823-44	01/13/2012 10:44:02		
33	A1260 20 PPB	011260C	GC23B-823-45	01/13/2012 11:16:41		
34	A1260 50 PPB	011260D	GC23B-823-46	01/13/2012 11:49:18		
35	A1260 100 PPB	011260E	GC23B-823-47	01/13/2012 12:22:01		
36	A1262 5 PPB	011262A	GC23B-823-48	01/13/2012 12:54:43		
37	A1262 10 PPB	011262B	GC23B-823-49	01/13/2012 13:27:27		
38	A1262 20 PPB	011262C	GC23B-823-50	01/13/2012 14:00:05		

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12020228

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.54 DCBP RT: 27.48

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 50 PPB	011262D	GC23B-823-51	01/13/2012 14:32:48		
40	A1262 100 PPB	011262E	GC23B-823-52	01/13/2012 15:05:32		
41	A1268 5 PPB	011268A	GC23B-823-53	01/13/2012 15:38:15		
42	A1268 10 PPB	011268B	GC23B-823-54	01/13/2012 16:11:00		
43	A1268 20 PPB	011268C	GC23B-823-55	01/13/2012 16:43:38		
44	A1268 50 PPB	011268D	GC23B-823-56	01/13/2012 17:16:16		
45	A1268 100 PPB	011268E	GC23B-823-57	01/13/2012 17:49:01		
46	A1016 50 PPB	CS160112A	GC23B-823-59	01/13/2012 18:54:17	6.54	27.45
47	A1221 50 PPB	CS210112A	GC23B-823-60	01/13/2012 19:26:55	6.54	27.46
48	A1232 50 PPB	CS320112A	GC23B-823-61	01/13/2012 19:59:33	6.54	27.46
49	A1242 50 PPB	CS420112A	GC23B-823-62	01/13/2012 20:32:16	6.54	27.45
50	A1248 50 PPB	CS480112B	GC23B-823-63	01/13/2012 21:04:59	6.54	27.46
51	A1254 50 PPB	CS540112D	GC23B-823-64	01/13/2012 21:37:36	6.54	27.46
52	A1260 50 PPB	CS600112A	GC23B-823-65	01/13/2012 22:10:20	6.53	27.45
53	A1262 50 PPB	CS620112A	GC23B-823-66	01/13/2012 22:42:57	6.54	27.46
54	A1268 50 PPB	CS680112A	GC23B-823-67	01/13/2012 23:15:34	6.54	27.46
55	A1016 50 PPB	CS160306A	GC23B-857-3	03/06/2012 09:15:09	6.53	27.38
56	PBLK-26(METHOD BLANK)	AP02447B	GC23B-857-4	03/06/2012 11:56:04	6.53	27.39
57	LCS-26(LAB CONTROL SPIKE)	AP02447L	GC23B-857-5	03/06/2012 12:28:40	6.53	27.38
58	MW-5D	AP02447	GC23B-857-6	03/06/2012 13:01:23	6.53	27.38
59	MW-28	AP02448	GC23B-857-7	03/06/2012 13:34:05	6.53(D)	27.38(D)
60	MW-5	AP02449	GC23B-857-8	03/06/2012 14:06:42	6.53	27.38
61	MW-27D	AP02450	GC23B-857-9	03/06/2012 14:39:18	6.53	27.38
62	MW-27R	AP02451	GC23B-857-10	03/06/2012 15:11:54	6.53(D)	27.40(D)
63	MW-D	AP02452	GC23B-857-11	03/06/2012 15:44:31	6.54(D)	27.39(D)
64	MW-32	AP02453	GC23B-857-12	03/06/2012 16:17:08	6.53	27.38
65	A1221 50 PPB	CS210306A	GC23B-857-13	03/06/2012 16:49:44	6.52	27.38

Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC23B)

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12020228
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC23B-823-13	011216A	5.00	264.376		
	GC23B-823-14	011216B	10.0	234.119		
	GC23B-823-15	011216C	20.0	229.051		
	GC23B-823-16	011216D	50.0	223.163		
	GC23B-823-17	011216E	100	216.340	233.410	7.9
Aroclor 1221	GC23B-823-18	011221A	5.00	58.529		
	GC23B-823-19	011221B	10.0	59.862		
	GC23B-823-20	011221C	20.0	59.280		
	GC23B-823-21	011221D	50.0	58.002		
	GC23B-823-22	011221E	100	55.813	58.297	2.7
Aroclor 1232	GC23B-823-23	011232A	5.00	108.994		
	GC23B-823-24	011232B	10.0	124.290		
	GC23B-823-25	011232C	20.0	116.106		
	GC23B-823-26	011232D	50.0	112.669		
	GC23B-823-27	011232E	100	109.289	114.270	5.5
Aroclor 1242	GC23B-823-28	011242A	5.00	196.356		
	GC23B-823-29	011242B	10.0	220.385		
	GC23B-823-30	011242C	20.0	208.880		
	GC23B-823-31	011242D	50.0	199.225		
	GC23B-823-32	011242E	100	207.769	206.523	4.6
Aroclor 1248	GC23B-823-33	011248A	5.00	237.923		
	GC23B-823-34	011248B	10.0	234.148		
	GC23B-823-35	011248C	20.0	214.732		
	GC23B-823-36	011248D	50.0	213.418		
	GC23B-823-37	011248E	100	206.478	221.340	6.3
Aroclor 1254	GC23B-823-38	011254A	5.00	387.329		
	GC23B-823-39	011254B	10.0	376.842		
	GC23B-823-40	011254C	20.0	360.643		
	GC23B-823-41	011254D	50.0	354.772		
	GC23B-823-42	011254E	100	376.848	371.287	3.6
Aroclor 1260	GC23B-823-43	011260A	5.00	570.701		
	GC23B-823-44	011260B	10.0	517.121		
	GC23B-823-45	011260C	20.0	508.429		
	GC23B-823-46	011260D	50.0	513.939		
	GC23B-823-47	011260E	100	502.401	522.518	5.3
Aroclor 1262	GC23B-823-48	011262A	5.00	667.306		
	GC23B-823-49	011262B	10.0	564.776		
	GC23B-823-50	011262C	20.0	585.547		
	GC23B-823-51	011262D	50.0	544.099		
	GC23B-823-52	011262E	100	555.450	583.436	8.4

FORM VI-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12020228
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC23B-823-53	011268A	5.00	1056.677		
	GC23B-823-54	011268B	10.0	1107.159		
	GC23B-823-55	011268C	20.0	950.117		
	GC23B-823-56	011268D	50.0	940.271		
	GC23B-823-57	011268E	100	1040.211	1018.890	7.0
TCMX	GC23B-823-38	011254A	1.00	1332.518		
	GC23B-823-39	011254B	2.50	1334.917		
	GC23B-823-40	011254C	4.00	1416.181		
	GC23B-823-41	011254D	5.00	1353.452		
	GC23B-823-42	011254E	8.00	1369.876	1361.390	2.5
DCBP	GC23B-823-38	011254A	10.0	1329.852		
	GC23B-823-39	011254B	25.0	1331.710		
	GC23B-823-40	011254C	40.0	1395.351		
	GC23B-823-41	011254D	50.0	1328.473		
	GC23B-823-42	011254E	80.0	1335.410	1344.160	2.1

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

INITIAL/CONTINUING CALIBRATION DATA (GC23B)

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7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12020228
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC23B-823-59	CS160112A	ICV	56.0	50	12.0		01/13/2012 18:54:17
Aroclor 1221	GC23B-823-60	CS210112A	ICV	56.4	50	12.8		01/13/2012 19:26:55
Aroclor 1232	GC23B-823-61	CS320112A	ICV	52.1	50	4.10		01/13/2012 19:59:33
Aroclor 1242	GC23B-823-62	CS420112A	ICV	48.4	50	-3.28		01/13/2012 20:32:16
Aroclor 1248	GC23B-823-63	CS480112B	ICV	55.3	50	10.5		01/13/2012 21:04:59
Aroclor 1254	GC23B-823-64	CS540112D	ICV	51.6	50	3.29		01/13/2012 21:37:36
Aroclor 1260	GC23B-823-65	CS600112A	ICV	52.9	50	5.82		01/13/2012 22:10:20
Aroclor 1262	GC23B-823-66	CS620112A	ICV	50.8	50	1.64		01/13/2012 22:42:57
Aroclor 1268	GC23B-823-67	CS680112A	ICV	48.1	50	-3.79		01/13/2012 23:15:34
Aroclor 1016	GC23B-857-3	CS160306A	CCV	51.2	50	2.41		03/06/2012 09:15:09
Aroclor 1221	GC23B-857-13	CS210306A	CCV	52.2	50	4.31		03/06/2012 16:49:44

% Difference must be less than or equal to +/- 15 percent
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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FORM VII-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12020228
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23B-823-59	CS160112A	ICV	1	8.16	8.08	8.24
		CS160112A	ICV	2	8.57	8.49	8.65
		CS160112A	ICV	3	9.18	9.10	9.26
		CS160112A	ICV	4	9.41	9.33	9.49
		CS160112A	ICV	5	9.59	9.51	9.67
Aroclor 1221	GC23B-823-60	CS210112A	ICV	1	5.34	5.26	5.42
		CS210112A	ICV	2	6.49	6.41	6.57
		CS210112A	ICV	3	6.98	6.90	7.06
		CS210112A	ICV	4	7.18	7.10	7.26
		CS210112A	ICV	5	7.30	7.22	7.38
Aroclor 1232	GC23B-823-61	CS320112A	ICV	1	7.30	7.22	7.38
		CS320112A	ICV	2	8.57	8.49	8.65
		CS320112A	ICV	3	9.18	9.10	9.26
		CS320112A	ICV	4	9.41	9.33	9.49
		CS320112A	ICV	5	9.59	9.51	9.67
Aroclor 1242	GC23B-823-62	CS420112A	ICV	1	8.16	8.08	8.24
		CS420112A	ICV	2	8.57	8.49	8.65
		CS420112A	ICV	3	9.18	9.10	9.26
		CS420112A	ICV	4	9.41	9.33	9.49
		CS420112A	ICV	5	9.59	9.51	9.67
Aroclor 1248	GC23B-823-63	CS480112B	ICV	1	10.11	10.03	10.19
		CS480112B	ICV	2	10.85	10.77	10.93
		CS480112B	ICV	3	11.46	11.38	11.54
		CS480112B	ICV	4	11.66	11.58	11.74
		CS480112B	ICV	5	12.14	12.06	12.22
Aroclor 1254	GC23B-823-64	CS540112D	ICV	1	12.32	12.24	12.40
		CS540112D	ICV	2	13.10	13.02	13.18
		CS540112D	ICV	3	13.39	13.31	13.47
		CS540112D	ICV	4	14.87	14.79	14.95
		CS540112D	ICV	5	15.74	15.66	15.82
Aroclor 1260	GC23B-823-65	CS600112A	ICV	1	15.73	15.65	15.81
		CS600112A	ICV	2	18.01	17.93	18.09
		CS600112A	ICV	3	19.19	19.11	19.27
		CS600112A	ICV	4	19.84	19.76	19.92
		CS600112A	ICV	5	22.48	22.40	22.56
Aroclor 1262	GC23B-823-66	CS620112A	ICV	1	15.73	15.65	15.81
		CS620112A	ICV	2	18.01	17.93	18.09
		CS620112A	ICV	3	19.19	19.11	19.27

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FORM VII-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12020228
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620112A	ICV	4	19.84	19.76	19.92
		CS620112A	ICV	5	22.48	22.40	22.56
Aroclor 1268	GC23B-823-67	CS680112A	ICV	1	19.83	19.75	19.91
		CS680112A	ICV	2	22.49	22.41	22.57
		CS680112A	ICV	3	19.60	19.52	19.68
		CS680112A	ICV	4	21.27	21.19	21.35
		CS680112A	ICV	5	21.71	21.63	21.79

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

12

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12020228
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23B-857-3	CS160306A	CCV	1	8.15	8.08	8.24
		CS160306A	CCV	2	8.56	8.49	8.65
		CS160306A	CCV	3	9.17	9.10	9.26
		CS160306A	CCV	4	9.40	9.33	9.49
		CS160306A	CCV	5	9.58	9.51	9.67
Aroclor 1221	GC23B-857-13	CS210306A	CCV	1	5.33	5.26	5.42
		CS210306A	CCV	2	6.48	6.41	6.57
		CS210306A	CCV	3	6.96	6.90	7.06
		CS210306A	CCV	4	7.17	7.10	7.26
		CS210306A	CCV	5	7.29	7.22	7.38

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

12

QC SAMPLE RAW DATA

13

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	PBLK-26
Matrix:	Water	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP02447B
Percent Moisture:	100	Lab File ID:	GC23F-855-4
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	03/05/2012
Injection Volume:	1.0 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

13

FORM I-CLP-PCB (NEA-PACE)

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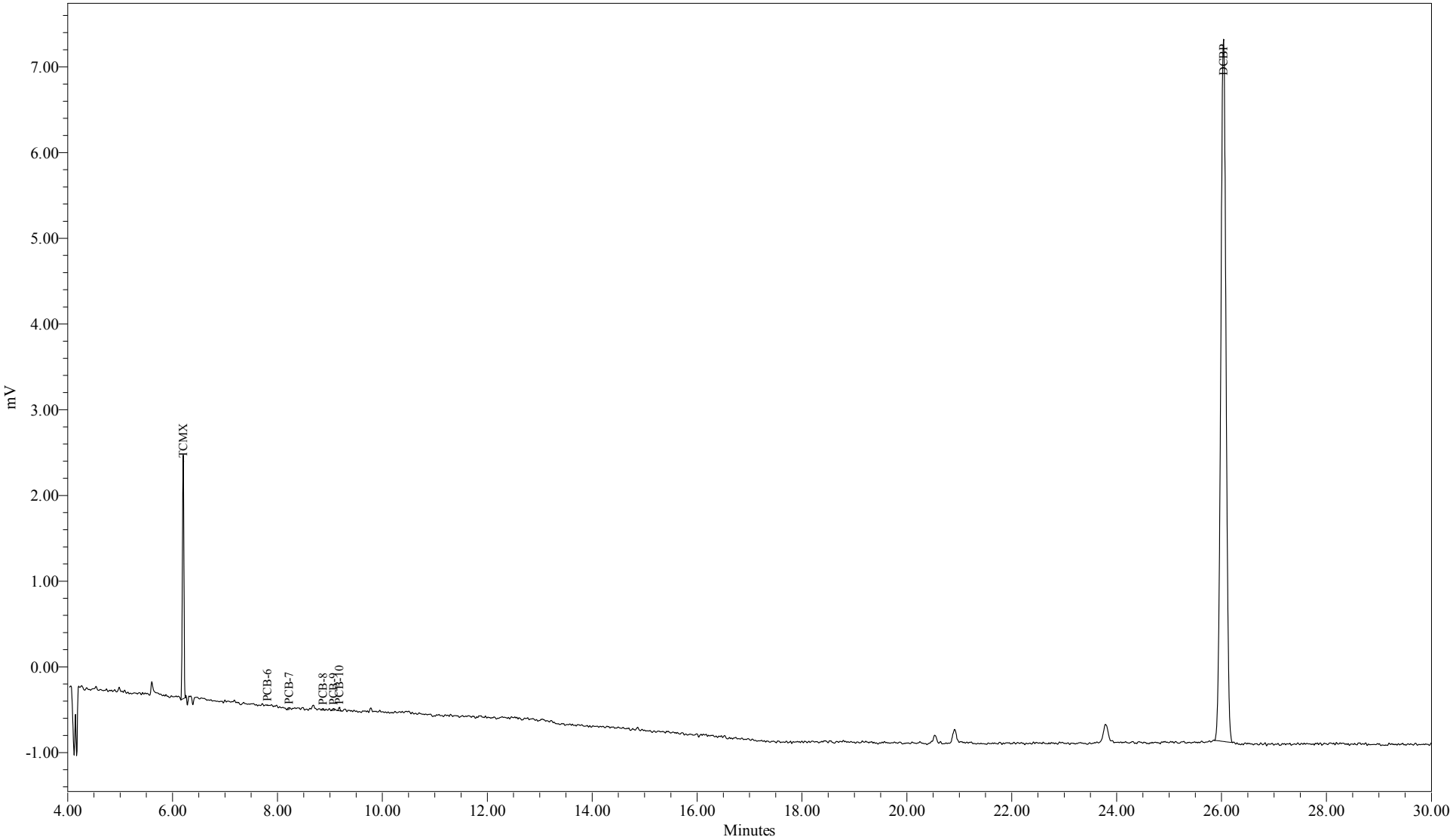

Sample Name:	AP02447B	Sample Amount (L) :	1.0000
Sample ID:	METHOD BLANK	Dilution:	10
Date Acquired:	3/6/2012 11:56:00 AM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-4

Sample Name: AP02447B

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	PBLK-26
Matrix:	Water	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP02447B
Percent Moisture:	100	Lab File ID:	GC23B-857-4
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	03/05/2012
Injection Volume:	1.0 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

13

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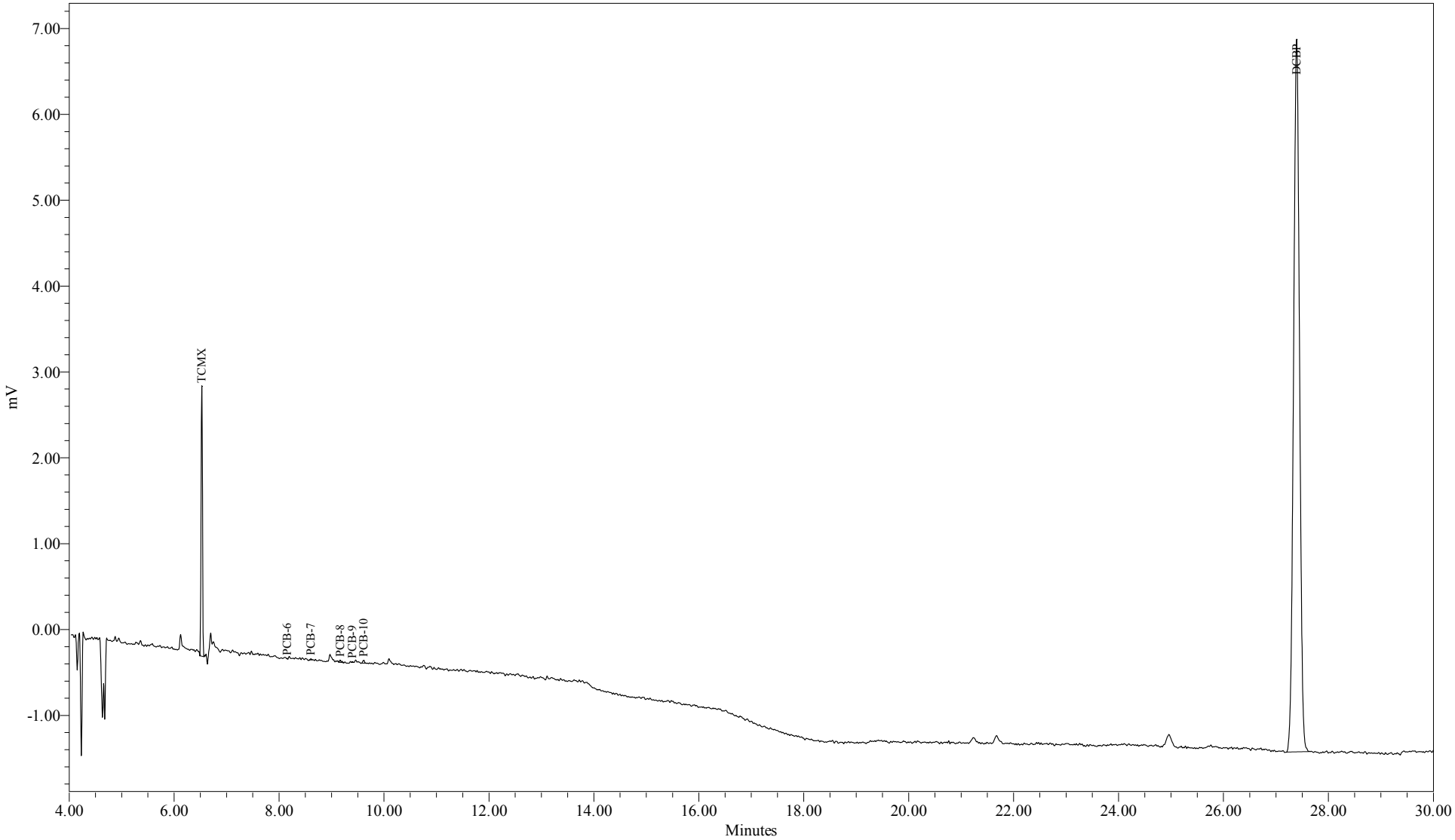

Sample Name:	AP02447B	Sample Amount (L) :	1.0000
Sample ID:	METHOD BLANK	Dilution:	10
Date Acquired:	3/6/2012 11:56:04 AM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-4

Sample Name: AP02447B

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	LCS-26
Matrix:	Water	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP02447L
Percent Moisture:	100	Lab File ID:	GC23F-855-5
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	03/05/2012
Injection Volume:	1.0 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.467	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

13

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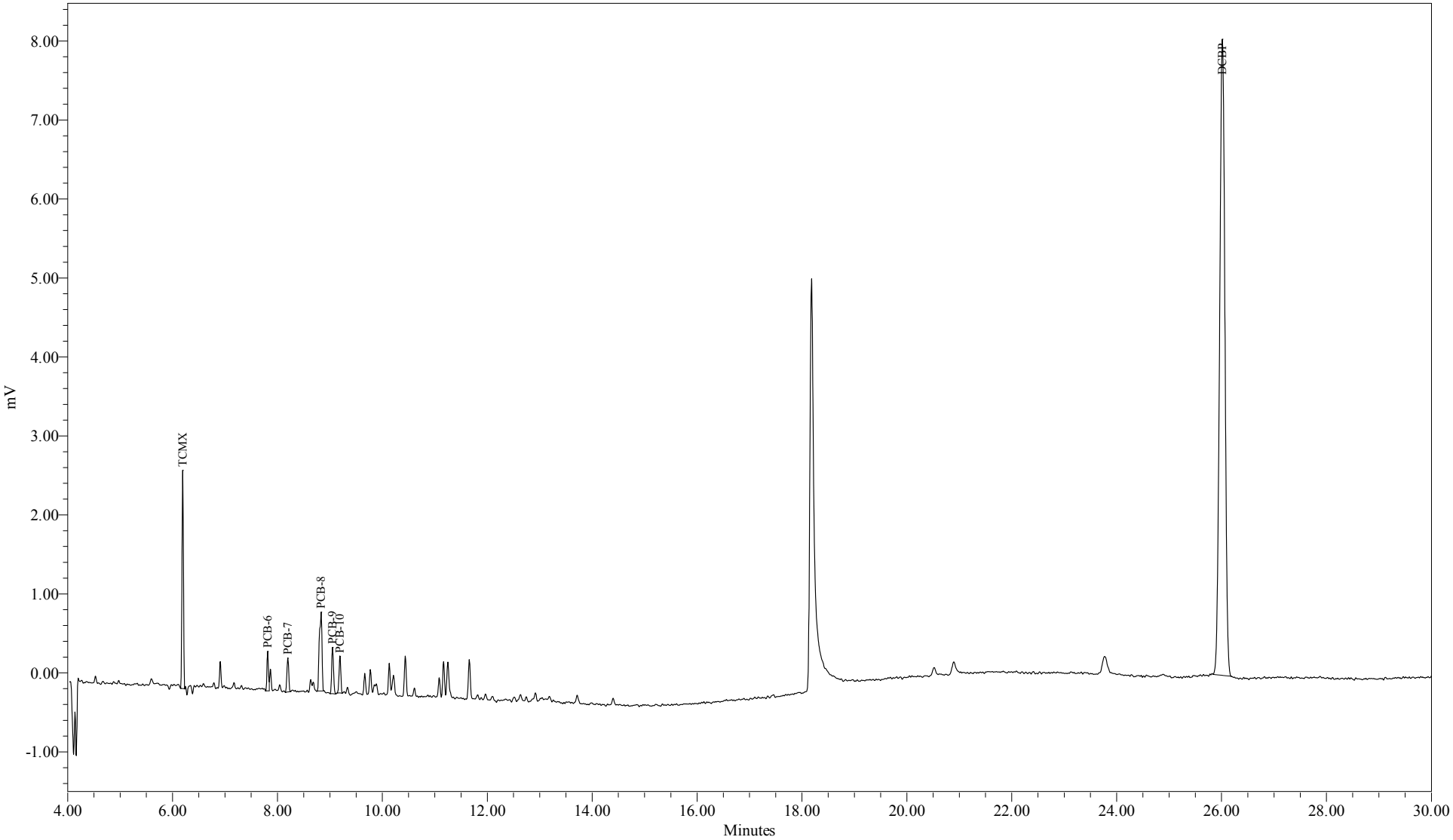

Sample Name:	AP02447L	Sample Amount (L) :	1.0000
Sample ID:	LAB CONTROL SPIKE	Dilution:	10
Date Acquired:	3/6/2012 12:28:36 PM EST	Processing Method:	GC23F_CCLL_011212
		LIMS File ID:	GC23F-855-5

Sample Name: AP02447L

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	LRF ID:	LCS-26
Matrix:	Water	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP02447L
Percent Moisture:	100	Lab File ID:	GC23B-857-5
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	03/05/2012
Injection Volume:	1.0 uL	Date Analyzed:	03/06/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.438	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

13

FORM I-CLP-PCB (NEA-PACE)

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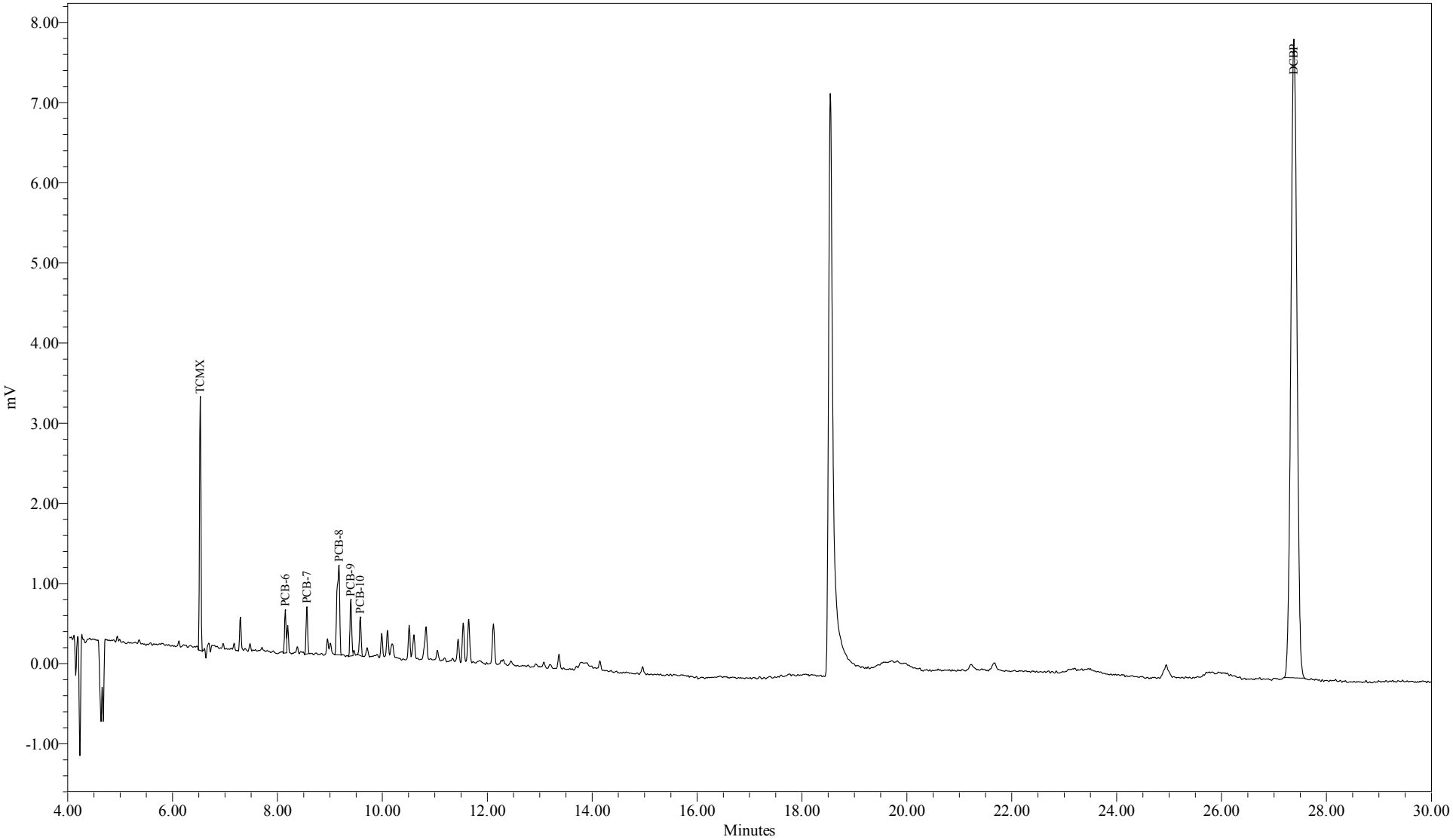

Sample Name:	AP02447L	Sample Amount (L) :	1.0000
Sample ID:	LAB CONTROL SPIKE	Dilution:	10
Date Acquired:	3/6/2012 12:28:40 PM EST	Processing Method:	GC23B_CCLL_011212
		LIMS File ID:	GC23B-857-5

Sample Name: AP02447L

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	LCS-26(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-26	Lab Sample ID:	AP02447L
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 12:28:36 PM	Date Analyzed:	03/06/2012 12:28:40 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-5	Lab File ID 2:	GC23B-857-5
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.20	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	8.20	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.20	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28	0.467		
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67	0.438	6.41	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12020228
ELAP ID No:	11078	Client ID:	LCS-26(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-26	Lab Sample ID:	AP02447L
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	03/06/2012 12:28:36 PM	Date Analyzed:	03/06/2012 12:28:40 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-855-5	Lab File ID 2:	GC23B-857-5
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.70	9.86			
		2	NA	10.37	10.53			
		3	NA	11.02	11.18			
		4	NA	11.19	11.35			
		5	NA	11.59	11.75			
	2	1	NA	10.03	10.19			
		2	NA	10.77	10.93			
		3	NA	11.38	11.54			
		4	NA	11.58	11.74			
		5	NA	12.06	12.22			
Aroclor 1254	1	1	NA	11.91	12.07			
		2	NA	12.57	12.73			
		3	NA	12.86	13.02			
		4	NA	14.35	14.51			
		5	NA	15.17	15.33			
	2	1	NA	12.24	12.40			
		2	NA	13.02	13.18			
		3	NA	13.31	13.47			
		4	NA	14.79	14.95			
		5	NA	15.66	15.82			
Aroclor 1260	1	1	NA	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	NA	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 3/8/2012
Lims Version : 5.0.6.1

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: 115058
Sampling Date(s): April 10, 2012, April 11, 2012
Lab Report ID: 12040144
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis (Water)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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CASE NARRATIVE

April 25, 2012

REVISED CASE NARRITIVE

This data package (SDG ID: 12040144) consists of 10 water samples received on 04/13/2012. The samples are from Project Name: 115058.

Revised Data Summary Package

The following correction has been made to the original data package submitted for this sample delivery group:

(1.) The Form 8- PCB analytical sequence and Form 7- PCB Calibration Verification Summary sheets have been replaced. The sample MW-28 had inadvertently omitted.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AP04503	MW-5D	04/10/2012 17:35
AP04504	MW-5	04/10/2012 17:55
AP04505	MW-18	04/10/2012 19:25
AP04506	MW-29	04/10/2012 20:10
AP04507	MW-31	04/10/2012 21:10
AP04508	MW-33	04/11/2012 16:55
AP04509	MW-28	04/11/2012 17:15
AP04510	MW-27D	04/11/2012 19:20
AP04511	MW-32	04/11/2012 20:20
AP04512	DUP-1	04/11/2012

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via FEDEX delivery service on 04/13/2012.

(2.) All samples were received at the laboratory within holding times.

(3.) The following cooler temperatures were recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 1.4, 2.5 Degrees Celsius. Please see Chain of Custody for details.

(4.) Sample (LAB ID: AP04507) was broken during shipment. There are no analysis results for this sample. Client was notified and will re-sample. Please see communication log for details.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Continuous Liquid/Liquid Extraction (EPA - Method 3520C). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.

(2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.

(3.) The concentration result for Aroclor 1248 was flagged (PE) to denote that Aroclor 1248 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1248 was not presumed to be present in the sample(s). Please see associated Form 1 for details.

(4.) The surrogates DCBP and TCMX were diluted out for (LAB ID: AP04509) due to the high concentration of PCB in the samples. Please see associated Form 2 for details.

(5.) The concentration results were flagged (P) to denote that the relative percent difference between primary and secondary GC column analysis exceeds 40.0 percent (LAB ID: AP04506). Please see associated Form 10 for details.

S:\Lims Data\1204\12040144\Package\CN_12040144_Rev01.doc

(6.) The percent recovery for the surrogate compound TCMX was outside quality control acceptance limits for samples (LAB ID: AP04503 and AP04504) and quality control sample (LAB ID: AP04503L) on the primary column. The alternate surrogate was within acceptance limits. Please see associated Form 2 for details.

(7.) Sample (LAB ID: AP04509) was re-analyzed at a secondary dilution to bring all target analyte concentrations within the calibration range of the instrument. Results for the re-analysis are provided with RR1 sample ID suffix.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
(2.) J-Denotes concentration result greater than the MDL but less than the RL.
(3.) P-Indicates relative percent difference (RPD) between primary and secondary GC column analysis exceeds 40.0 percent.
(4.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

William A. Kotas
Client Services Manager

S:\Lims Data\1204\12040144\Package\CN_12040144_Rev01.doc

TAT is 5 business days

OK to mark complete

TRC will resample next week - they have additional bottles

Thank you Jona !

William A. Kotas
Client Services Manager

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Tel: (518) 346-4592 Ext: 17
Cel: (518) 928-5789
Fax: (518) 381-6055
Email: William.kotas@pacelabs.com <mailto:William.kotas@pacelabs.com>
Web: www.pacelabs.com <http://www.pacelabs.com/>

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From: Custody
Sent: Friday, April 13, 2012 12:51
To: William Kotas
Subject: RE: Broken sample NBHS

Did she mention what the TAT was for these? Is it ok to mark the LRF complete?

Thanks!

Jonida Zerka

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Tel: (518) 346-4592 Ext: 20
Fax: (518) 381-6055
Email: jonida.zerka@pacelabs.com <mailto:jonidaz@nealab.com>
Web: www.pacelabs.com <http://www.pacelabs.com/>

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From: William Kotas
Sent: Friday, April 13, 2012 11:56 AM
To: Custody
Subject: RE: Broken sample NBHS

Thanks

William A. Kotas
Client Services Manager

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Tel: (518) 346-4592 Ext: 17
Cel: (518) 928-5789
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From: Custody
Sent: Friday, April 13, 2012 11:53
To: William Kotas
Subject: RE: Broken sample NBHS

It was in the small cooler. She had samples along the sides and the ice in the middle so when the ice melted, the samples were able to move.

Kelly Houghtlen
Project Manager

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Tel: (518) 346-4592 Ext: 20
Fax: (518) 381-6055
Email: Kelly.Houghtlen@pacelabs.com <mailto:kellyh@nealab.com>
Web: www.pacelabs.com <http://www.pacelabs.com/>

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From: William Kotas
Sent: Friday, April 13, 2012 11:51 AM
To: Custody
Subject: FW: Broken sample NBHS

Jona,

Which cooler was the sample in ? Emilie thought she packed well

Thanks

William A. Kotas
Client Services Manager

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Tel: (518) 346-4592 Ext: 17
Cel: (518) 928-5789
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From: Wachtel, Emilie (Lowell,MA-US) [<mailto:EWachtel@trcsolutions.com>]
Sent: Friday, April 13, 2012 11:47
To: William Kotas
Subject: RE: Broken sample NBHS

Just wondering, do you know if that bottle was in the smaller or large cooler?

Emilie Wachtel Project Scientist

Wannalancit Mills, 650 Suffolk Street, Lowell, MA 01854 T: 978.970.5600 | F: 978.453.1995 | C: 401.529.7947 Follow us on LinkedIn <http://www.linkedin.com/company/7886> or Twitter <http://twitter.com/TRC_Companies> | www.trcsolutions.com <http://www.trcsolutions.com/>

Please consider the environment before printing this email.

From: William Kotas [<mailto:williamk@nealab.com>]
Sent: Friday, April 13, 2012 11:39 AM
To: Wachtel, Emilie (Lowell,MA-US)
Subject: Broken sample NBHS
Importance: High

Hello Emilie,

Sample MW-31 was broken in transit

Sorry we'll make sure to send 2 bottles every time

Can you resample ?

Thank you !

William A. Kotas
Client Services Manager

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Tel: (518) 346-4592 Ext: 17
Cel: (518) 928-5789
Fax: (518) 381-6055
Email: William.kotas@pacelabs.com <mailto:William.kotas@pacelabs.com>
Web: www.pacelabs.com <http://www.pacelabs.com/>

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SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<12040144P1>

120401441

Page: 1 of 1

1540309

Section A Required Client Information:

Company: TRC Environmental
Address: 650 Suffolk St. Lowell MA 01854
Email To: dsullivan@trcsolutions.com
Phone: 978-970-5600 Fax: 978-453-1995
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Dave Sullivan
Copy To: Al Leonard, Jeff Saunders
Purchase Order No.: 43680
Project Name: NBHS
Project Number: 115058

Section C Invoice Information:

Attention:
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MA

2

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: PCBs (8082)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-5D	WT	G	4/10/12	1735					X								X		AP04503
2	MW-5	WT	G	4/10/12	1755					X								X		AP04504
3	MW-18	WT	G	4/10/12	1925					X								X		AP04505
4	MW-29	WT	G	4/10/12	2010					X								X		AP04506
5	MW-31	WT	G	4/10/12	2110					X								X		AP04507 - Broken
6	MW-33	WT	G	4/11/12	1655					X								X		AP04508
7	MW-28	WT	G	4/11/12	1715					X								X		AP04509
8	MW-27D	WT	G	4/11/12	1920					X								X		AP04510
9	MW-32	WT	G	4/11/12	2020					X								X		AP04511
10	DUP-1	WT	G	4/11/12	—					X								X		AP04512
11		WT	G																	
12																				

* MS/MSD none

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emilie Wachtel / TRC	4/12/12	1200	via Fedex			1.4	Y	N JZ 4.13.12	Y
	via FedEx			Jennifer Fischer / PACE	4.13.12	09:32			Y	JZ 4.13.12
							2.5	Y	Y	Y N

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emilie Wachtel

(Temp in °C; Received on Ice (Y/N); Custody Sealed Cooler (Y/N); Samples Intact (Y/N))

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG

Pace Analytical®

Prep Date: 04/16/12 **Batch ID: 17600**

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Hg Shake (MM/DD)	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
														Initial for required Clean Up Steps						
														SMS		SMS	SMS			
1	167062	PBLK-11	AP04503B	Water	5	E PCB W	CLLE	N/A	1000	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
2	167061	LCS-11	AP04503L	Water	5	E PCB W	CLLE	N/A	1000	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
3	167050	12040144-01MS	AP04503M	Water	5	E PCB W	CLLE	N/A	1020	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
4	167051	12040144-01MSD	AP04503K	Water	5	E PCB W	CLLE	N/A	1020	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
5	167052	12040144-01	AP04503	Water	5	E PCB W	CLLE	N/A	1080	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
6	167053	12040144-02	AP04504	Water	5	E PCB W	CLLE	N/A	1040	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
7	167054	12040144-03	AP04505	Water	5	E PCB W	CLLE	N/A	1040	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
8	167055	12040144-04	AP04506	Water	5	E PCB W	CLLE	N/A	1060	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
9	167056	12040144-06	AP04508	Water	5	E PCB W	CLLE	N/A	1020	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	
10	167057	12040144-07	AP04509	Water	5	E PCB W	CLLE	N/A	1040	11:10	13:10	NA	NA	04/16	NA	04/16	04/16	10	04/16	Required an addtional hg shake
11	167058	12040144-08	AP04510	Water	5	E PCB W	CLLE	N/A	1080	13:37	15:37	NA	NA	04/17	NA	04/17	04/17	10	04/17	
12	167059	12040144-09	AP04511	Water	5	E PCB W	CLLE	N/A	1020	13:37	15:37	NA	NA	04/17	NA	04/17	04/17	10	04/17	
13	167060	12040144-10	AP04512	Water	5	E PCB W	CLLE	N/A	1080	13:37	15:37	NA	NA	04/17	NA	04/17	04/17	10	04/17	

3

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Toluene	050254	NA		☑	☑	☐	☑	☐	☑	☑
Sulfuric Acid (Water Lab)	E49039	NA		☑	☑	☐	☑	☐	☑	☑
Mercury	062210	NA		☑	☑	☐	☑	☐	☑	☑
Dichloromethane	DE167	NA		☑	☑	☐	☑	☐	☑	☑
10% Florisil	120811F	NA		☑	☑	☐	☑	☐	☑	☑
A1242 at 0.5ppm in Hexane	012712B32P008A	1000	0.5	☐	☑	☐	☐	☐	☑	☑
2 micron Zefluor membrane	T13368	NA		☑	☑	☐	☑	☐	☑	☑
Hexane (Dewar)	DF919	NA		☑	☑	☐	☑	☐	☑	☑
0.05ppm TCMX/0.5ppm DCBP in Hexane	032312B032P077A	1000	0.05/0.5	☑	☑	☐	☑	☐	☑	☑

Analyst Review: Megan Fung

Megan Fung

Peer Review: Stephanie Scribner

Stephanie Scribner

Print Date: 5/7/2012
Lims Version : 5.0.6.5
_EXT - LOGBOOK_GC-SV; Rev 02; 1.18.2010; EXTRACTION

PCB SCREEN SHEET

LRF: 12040144 **Batch ID:17600**

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AP04503B	GC23F-885-10	Water	**04/16/12**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-888-10	Water	**04/16/12**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
AP04503L	GC23F-885-11	Water	**04/16/12**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-888-11	Water	**04/16/12**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
AP04503M	GC23F-885-13	Water	**04/16/12**	1020	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-888-13	Water	**04/16/12**	1020	10	NA	NA	1	NA	10x	Anthony Maiello
AP04503K	GC23B-888-14	Water	**04/16/12**	1020	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-885-14	Water	**04/16/12**	1020	10	NA	NA	1	NA	10x	Anthony Maiello
AP04503	GC23F-885-12	Water	**04/16/12**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-888-12	Water	**04/16/12**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
AP04504	GC23B-888-15	Water	**04/16/12**	1040	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-885-15	Water	**04/16/12**	1040	10	NA	NA	1	NA	10x	Anthony Maiello
AP04505	GC23B-888-16	Water	**04/16/12**	1040	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-885-16	Water	**04/16/12**	1040	10	NA	NA	1	NA	10x	Anthony Maiello
AP04506	GC23B-888-17	Water	**04/16/12**	1060	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-885-17	Water	**04/16/12**	1060	10	NA	NA	1	NA	10x	Anthony Maiello
AP04508	GC23B-888-18	Water	**04/16/12**	1020	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-885-18	Water	**04/16/12**	1020	10	NA	NA	1	NA	10x	Anthony Maiello
AP04509RR1	GC23B-891-5	Water	**04/16/12**	1040	10	NA	NA	10	1>10	100x	Anthony Maiello
	GC23F-888-5	Water	**04/16/12**	1040	10	NA	NA	10	1>10	100x	Anthony Maiello
AP04510	GC23B-888-21	Water	**04/16/12**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-885-21	Water	**04/16/12**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
AP04511	GC23B-888-22	Water	**04/16/12**	1020	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-885-22	Water	**04/16/12**	1020	10	NA	NA	1	NA	10x	Anthony Maiello
AP04512	GC23B-888-23	Water	**04/16/12**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-885-23	Water	**04/16/12**	1080	10	NA	NA	1	NA	10x	Anthony Maiello

3

COMMENTS: _____

Page 1 of 1

Print Date: 5/7/2012
Lims Version : 5.0.6.5
_EXT-INJSHEET_NL; Rev 00; 09.29.2010; EXTRACTION

SURROGATE % RECOVERY SUMMARY

4

2E-1
PCB SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 12040144

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-11	AP04503B	GC23F-885-10	135	100					0
PBLK-11	AP04503B	GC23B-888-10			87.3	96.9			0
LCS-11	AP04503L	GC23F-885-11	159 *	101					1
LCS-11	AP04503L	GC23B-888-11			91.4	98.8			0
12040144-01	AP04503	GC23F-885-12	154 *	101					1
12040144-01	AP04503	GC23B-888-12			93.6	99.2			0
12040144-02	AP04504	GC23F-885-15	160 *	97.8					1
12040144-02	AP04504	GC23B-888-15			88.2	97.5			0
12040144-03	AP04505	GC23F-885-16	101	99.6					0
12040144-03	AP04505	GC23B-888-16			82.0	96.0			0
12040144-04	AP04506	GC23F-885-17	134	103					0
12040144-04	AP04506	GC23B-888-17			89.7	99.9			0
12040144-06	AP04508	GC23F-885-18	134	101					0
12040144-06	AP04508	GC23B-888-18			93.8	98.0			0
12040144-07RR1	AP04509RR1	GC23F-888-5	134 D	92.9 D					0
12040144-07RR1	AP04509RR1	GC23B-891-5			99.8 D	98.1 D			0
12040144-08	AP04510	GC23F-885-21	67.5	74.6					0
12040144-08	AP04510	GC23B-888-21			87.7	98.6			0
12040144-09	AP04511	GC23F-885-22	76.3	86.8					0
12040144-09	AP04511	GC23B-888-22			72.7	84.3			0
12040144-10	AP04512	GC23F-885-23	94.3	99.1					0
12040144-10	AP04512	GC23B-888-23			91.8	97.4			0
12040144-01MS	AP04503M	GC23F-885-13	126	101					0
12040144-01MS	AP04503M	GC23B-888-13			92.6	100			0
12040144-01MSD	AP04503K	GC23F-885-14	136	103					0
12040144-01MSD	AP04503K	GC23B-888-14			91.0	102			0

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(60.0-140)
SURR2 = DECACHLOROBIPHENYL	(60.0-140)

Form II-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

MATRIX SPIKE SUMMARY

3F-1
MATRIX SPIKE (MS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12040144

MS LRF ID: 12040144-01MS

Sample LRF ID: 12040144-01

MS Lab File ID: GC23F-885-13

Sample File ID: GC23F-885-12

MS Sample Inj Date: 04/17/2012 21:03:53

Sample Inj Date: 04/17/2012 20:31:16

MS Lab Sample ID: AP04503M

Sample ID: AP04503

COMPOUND	CALC. SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.490	0	0.469	95.6	(70.0-130)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

5

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.5

3F-1
MATRIX SPIKE (MS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12040144

MS LRF ID: 12040144-01MS

Sample LRF ID: 12040144-01

MS Lab File ID: GC23B-888-13

Sample File ID: GC23B-888-12

MS Sample Inj Date: 04/17/2012 21:03:57

Sample Inj Date: 04/17/2012 20:31:20

MS Lab Sample ID: AP04503M

Sample ID: AP04503

COMPOUND	CALC. SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.490	0	0.464	94.7	(70.0-130)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

5

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.5

LABORATORY CONTROL SPIKE SUMMARY

6

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12040144

LCS Lab ID: LCS-11

Blank Sample ID: PBLK-11

LCS File ID: GC23B-888-11

Method Blank File ID: GC23B-888-10

LCS Inj Date: 04/17/2012 19:58:37

Method Blank Inj Date: 04/17/2012 19:26:01

LCS ID: AP04503L

Method Blank ID: AP04503B

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.500	0.468	93.6	70.0-130

Column to be used to flag recovery values

* Values outside of QC limits

[1]QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

6

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.5

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12040144

LCS Lab ID: LCS-11

Blank Sample ID: PBLK-11

LCS File ID: GC23F-885-11

Method Blank File ID: GC23F-885-10

LCS Inj Date: 04/17/2012 19:58:33

Method Blank Inj Date: 04/17/2012 19:25:57

LCS ID: AP04503L

Method Blank ID: AP04503B

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.500	0.480	96.0	70.0-130

Column to be used to flag recovery values

* Values outside of QC limits

[1]QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

6

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.5

METHOD BLANK SUMMARY

7

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Blank Sample ID:	PBLK-11
Matrix:	Water	Method Blank ID:	AP04503B
Instrument ID:	GC23F	Lab File ID:	GC23F-885-10
Extraction Type:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
GC Column (1):	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	04/17/2012
		Time Analyzed:	19:25:57

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-11(LAB CONTROL SPIKE)	AP04503L	GC23F-885-11	04/17/2012 19:58:33
MW-5D	AP04503	GC23F-885-12	04/17/2012 20:31:16
MW-5D MS	AP04503M	GC23F-885-13	04/17/2012 21:03:53
MW-5D MSD	AP04503K	GC23F-885-14	04/17/2012 21:36:29
MW-5	AP04504	GC23F-885-15	04/17/2012 22:09:05
MW-18	AP04505	GC23F-885-16	04/17/2012 22:41:42
MW-29	AP04506	GC23F-885-17	04/17/2012 23:14:19
MW-33	AP04508	GC23F-885-18	04/17/2012 23:47:02
MW-27D	AP04510	GC23F-885-21	04/18/2012 01:24:52
MW-32	AP04511	GC23F-885-22	04/18/2012 01:57:29
DUP-1	AP04512	GC23F-885-23	04/18/2012 02:30:06
MW-28	AP04509RR1	GC23F-888-5	04/20/2012 10:46:21

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Blank Sample ID:	PBLK-11
Matrix:	Water	Method Blank ID:	AP04503B
Instrument ID:	GC23B	Lab File ID:	GC23B-888-10
Extraction Type:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
GC Column (1):	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	04/17/2012
		Time Analyzed:	19:26:01

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-11(LAB CONTROL SPIKE)	AP04503L	GC23B-888-11	04/17/2012 19:58:37
MW-5D	AP04503	GC23B-888-12	04/17/2012 20:31:20
MW-5D MS	AP04503M	GC23B-888-13	04/17/2012 21:03:57
MW-5D MSD	AP04503K	GC23B-888-14	04/17/2012 21:36:33
MW-5	AP04504	GC23B-888-15	04/17/2012 22:09:09
MW-18	AP04505	GC23B-888-16	04/17/2012 22:41:46
MW-29	AP04506	GC23B-888-17	04/17/2012 23:14:23
MW-33	AP04508	GC23B-888-18	04/17/2012 23:47:06
MW-27D	AP04510	GC23B-888-21	04/18/2012 01:24:56
MW-32	AP04511	GC23B-888-22	04/18/2012 01:57:33
DUP-1	AP04512	GC23B-888-23	04/18/2012 02:30:10
MW-28	AP04509RR1	GC23B-891-5	04/20/2012 10:46:25

SAMPLE ANALYSIS DATA

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1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-01
Matrix:	Water	Client ID:	MW-5D
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AP04503
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-885-12

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-888-12

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0500	U
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
Note: There were few non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-02
Matrix:	Water	Client ID:	MW-5
Sample wt(Dry)/vol:	1040 mL	Lab Sample ID:	AP04504
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-888-15

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-885-15

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0202	PB,J
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0727	PE
2	11097-69-1	Aroclor 1254	0.0373	AF,J
1	11096-82-5	Aroclor 1260	0.0500	U

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Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were few non-target peaks.
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-5
LRF Sample ID:	12040144-02	Lab Sample ID:	AP04504
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/17/2012 10:09:09 PM	Date Analyzed:	04/17/2012 10:09:05 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-15	Lab File ID 2:	GC23F-885-15
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	7.81	7.74	7.90			
		2	8.20	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.18	9.12	9.28			
Aroclor 1221	1	1	5.35	5.26	5.42			
		2	6.48	6.41	6.57			
		3	6.95	6.90	7.06			
		4	7.17	7.10	7.26			
		5	7.30	7.22	7.38	0.0202		
	2	1	4.78	4.70	4.86			
		2	6.03	5.96	6.12			
		3	6.61	6.52	6.68			
		4	6.80	6.71	6.87			
		5	6.91	6.84	7.00	0.0201	0.496	
Aroclor 1232	1	1	7.30	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	6.91	6.84	7.00			
		2	8.20	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.18	9.12	9.28			
Aroclor 1242	1	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	7.81	7.74	7.90			
		2	8.20	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.18	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-5
LRF Sample ID:	12040144-02	Lab Sample ID:	AP04504
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/17/2012 10:09:09 PM	Date Analyzed:	04/17/2012 10:09:05 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-15	Lab File ID 2:	GC23F-885-15
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.10	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.45	11.38	11.54			
		4	11.67	11.58	11.74			
		5	12.13	12.06	12.22	0.0727		
	2	1	9.77	9.70	9.86			
		2	10.45	10.37	10.53			
		3	11.07	11.02	11.18			
		4	11.29	11.19	11.35			
		5	11.66	11.59	11.75	0.0667	8.61	
Aroclor 1254	1	1	12.29	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.84	14.79	14.95			
		5	15.71	15.66	15.82	0.0372		
	2	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.92	12.86	13.02			
		4	14.39	14.35	14.51			
		5	15.23	15.17	15.33	0.0373	0.268	
Aroclor 1260	1	1	15.71	15.65	15.81			
		2	17.96	17.93	18.09			
		3	19.18	19.11	19.27			
		4	19.84	19.76	19.92			
		5	22.44	22.40	22.56			
	2	1	15.23	15.17	15.33			
		2	17.49	17.42	17.58			
		3	18.36	18.34	18.50			
		4	19.17	19.14	19.30			
		5	21.49	21.40	21.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-03
Matrix:	Water	Client ID:	MW-18
Sample wt(Dry)/vol:	1040 mL	Lab Sample ID:	AP04505
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-885-16

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-888-16

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0500	U
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
Note: There were few non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-04
Matrix:	Water	Client ID:	MW-29
Sample wt(Dry)/vol:	1060 mL	Lab Sample ID:	AP04506
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-885-17

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-888-17

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0329	PE,JP
1	11097-69-1	Aroclor 1254	0.0371	AF,J
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were few non-target peaks.
P - Indicates relative percent difference (RPD) between primary and secondary GC column analysis exceeds 40%.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-29
LRF Sample ID:	12040144-04	Lab Sample ID:	AP04506
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/17/2012 11:14:19 PM	Date Analyzed:	04/17/2012 11:14:23 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-885-17	Lab File ID 2:	GC23B-888-17
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.20	8.13	8.29			
		3	8.80	8.76	8.92			
		4	9.04	8.98	9.14			
		5	9.18	9.12	9.28			
	2	1	8.13	8.08	8.24			
		2	8.55	8.49	8.65			
		3	9.13	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.59	9.51	9.67			
Aroclor 1221	1	1	4.79	4.70	4.86			
		2	6.02	5.96	6.12			
		3	6.58	6.52	6.68			
		4	6.81	6.71	6.87			
		5	6.91	6.84	7.00			
	2	1	5.35	5.26	5.42			
		2	6.46	6.41	6.57			
		3	6.94	6.90	7.06			
		4	7.18	7.10	7.26			
		5	7.29	7.22	7.38			
Aroclor 1232	1	1	6.91	6.84	7.00			
		2	8.20	8.13	8.29			
		3	8.80	8.77	8.93			
		4	9.04	8.98	9.14			
		5	9.18	9.12	9.28			
	2	1	7.29	7.22	7.38			
		2	8.55	8.49	8.65			
		3	9.13	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.59	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.20	8.12	8.28			
		3	8.80	8.76	8.92			
		4	9.04	8.98	9.14			
		5	9.18	9.12	9.28			
	2	1	8.13	8.08	8.24			
		2	8.55	8.49	8.65			
		3	9.13	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.59	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-29
LRF Sample ID:	12040144-04	Lab Sample ID:	AP04506
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/17/2012 11:14:19 PM	Date Analyzed:	04/17/2012 11:14:23 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-885-17	Lab File ID 2:	GC23B-888-17
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.77	9.70	9.86			
		2	10.44	10.37	10.53			
		3	11.06	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.66	11.59	11.75	0.0329		
	2	1	10.09	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.45	11.38	11.54			
		4	11.66	11.58	11.74			
		5	12.11	12.06	12.22	0.0219	40.1	*
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.21	15.17	15.33	0.0371		
	2	1	12.29	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.83	14.79	14.95			
		5	15.71	15.66	15.82	0.0360	3.01	
Aroclor 1260	1	1	15.21	15.17	15.33			
		2	17.51	17.42	17.58			
		3	18.42	18.34	18.50			
		4	19.22	19.14	19.30			
		5	21.46	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	18.00	17.93	18.09			
		3	19.13	19.11	19.27			
		4	19.82	19.76	19.92			
		5	22.52	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-06
Matrix:	Water	Client ID:	MW-33
Sample wt(Dry)/vol:	1020 mL	Lab Sample ID:	AP04508
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-888-18

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-885-18

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0242	PE,J
2	11097-69-1	Aroclor 1254	0.0228	AF,J
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were few non-target peaks.
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-33
LRF Sample ID:	12040144-06	Lab Sample ID:	AP04508
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/17/2012 11:47:06 PM	Date Analyzed:	04/17/2012 11:47:02 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-18	Lab File ID 2:	GC23F-885-18
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.14	8.08	8.24			
		2	8.55	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	7.81	7.74	7.90			
		2	8.18	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			
Aroclor 1221	1	1	5.35	5.26	5.42			
		2	6.47	6.41	6.57			
		3	6.94	6.90	7.06			
		4	7.18	7.10	7.26			
		5	7.30	7.22	7.38			
	2	1	4.79	4.70	4.86			
		2	6.02	5.96	6.12			
		3	6.58	6.52	6.68			
		4	6.80	6.71	6.87			
		5	6.90	6.84	7.00			
Aroclor 1232	1	1	7.30	7.22	7.38			
		2	8.55	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	6.90	6.84	7.00			
		2	8.18	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			
Aroclor 1242	1	1	8.14	8.08	8.24			
		2	8.55	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	7.81	7.74	7.90			
		2	8.18	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-33
LRF Sample ID:	12040144-06	Lab Sample ID:	AP04508
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/17/2012 11:47:06 PM	Date Analyzed:	04/17/2012 11:47:02 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-18	Lab File ID 2:	GC23F-885-18
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.10	10.03	10.19			
		2	10.84	10.77	10.93			
		3	11.46	11.38	11.54			
		4	11.66	11.58	11.74			
		5	12.11	12.06	12.22	0.0242		
	2	1	9.77	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.06	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.64	11.59	11.75	0.0214	12.3	
Aroclor 1254	1	1	12.26	12.24	12.40			
		2	13.05	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.83	14.79	14.95			
		5	15.70	15.66	15.82	0.0203		
	2	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.23	15.17	15.33	0.0228	11.6	
Aroclor 1260	1	1	15.70	15.65	15.81			
		2	17.96	17.93	18.09			
		3	19.13	19.11	19.27			
		4	19.84	19.76	19.92			
		5	22.47	22.40	22.56			
	2	1	15.23	15.17	15.33			
		2	17.47	17.42	17.58			
		3	18.39	18.34	18.50			
		4	19.17	19.14	19.30			
		5	21.47	21.40	21.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-07RR1
Matrix:	Water	Client ID:	MW-28
Sample wt(Dry)/vol:	1040 mL	Lab Sample ID:	AP04509RR1
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/20/2012
Method:	SW-846 Method 8082	Dilution Factor:	10
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-888-5

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-891-5

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.500	U
2	11104-28-2	Aroclor 1221	3.31	PB
1	11141-16-5	Aroclor 1232	0.500	U
1	53469-21-9	Aroclor 1242	0.500	U
1	12672-29-6	Aroclor 1248	6.12	PE
2	11097-69-1	Aroclor 1254	5.59	AF
1	11096-82-5	Aroclor 1260	0.500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were several non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-28
LRF Sample ID:	12040144-07RR1	Lab Sample ID:	AP04509RR1
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/20/2012 10:46:21 AM	Date Analyzed:	04/20/2012 10:46:25 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-888-5	Lab File ID 2:	GC23B-891-5
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1221	1	1	4.79	4.70	4.86			
		2	6.02	5.96	6.12			
		3	6.59	6.52	6.68			
		4	6.79	6.71	6.87			
		5	6.91	6.84	7.00	3.21		
	2	1	5.34	5.26	5.42			
		2	6.48	6.41	6.57			
		3	6.96	6.90	7.06			
		4	7.17	7.10	7.26			
		5	7.29	7.22	7.38	3.31	3.07	
Aroclor 1232	1	1	6.91	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	7.29	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.57	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-28
LRF Sample ID:	12040144-07RR1	Lab Sample ID:	AP04509RR1
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/20/2012 10:46:21 AM	Date Analyzed:	04/20/2012 10:46:25 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-888-5	Lab File ID 2:	GC23B-891-5
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.77	9.70	9.86			
		2	10.44	10.37	10.53			
		3	11.08	11.02	11.18			
		4	11.29	11.19	11.35			
		5	11.66	11.59	11.75	6.12		
	2	1	10.10	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.44	11.38	11.54			
		4	11.66	11.58	11.74			
		5	12.13	12.06	12.22	6.03	1.48	
Aroclor 1254	1	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.92	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.23	15.17	15.33	5.27		
	2	1	12.30	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.84	14.79	14.95			
		5	15.71	15.66	15.82	5.59	5.89	
Aroclor 1260	1	1	15.23	15.17	15.33			
		2	17.48	17.42	17.58			
		3	18.41	18.34	18.50			
		4	19.16	19.14	19.30			
		5	21.51	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	17.98	17.93	18.09			
		3	19.16	19.11	19.27			
		4	19.84	19.76	19.92			
		5	22.49	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-08
Matrix:	Water	Client ID:	MW-27D
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AP04510
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/18/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-888-21

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-885-21

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0973	AF
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-27D
LRF Sample ID:	12040144-08	Lab Sample ID:	AP04510
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/18/2012 1:24:56 AM	Date Analyzed:	04/18/2012 1:24:52 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-21	Lab File ID 2:	GC23F-885-21
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.14	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.60	9.51	9.67			
	2	1	7.80	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.84	8.76	8.92			
		4	9.04	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1221	1	1	5.34	5.26	5.42			
		2	6.47	6.41	6.57			
		3	6.94	6.90	7.06			
		4	7.18	7.10	7.26			
		5	7.29	7.22	7.38			
	2	1	4.78	4.70	4.86			
		2	6.02	5.96	6.12			
		3	6.61	6.52	6.68			
		4	6.80	6.71	6.87			
		5	6.91	6.84	7.00			
Aroclor 1232	1	1	7.29	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.60	9.51	9.67			
	2	1	6.91	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.84	8.77	8.93			
		4	9.04	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1242	1	1	8.14	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.60	9.51	9.67			
	2	1	7.80	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.04	8.98	9.14			
		5	9.20	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-27D
LRF Sample ID:	12040144-08	Lab Sample ID:	AP04510
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/18/2012 1:24:56 AM	Date Analyzed:	04/18/2012 1:24:52 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-21	Lab File ID 2:	GC23F-885-21
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.09	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.43	11.38	11.54			
		4	11.66	11.58	11.74			
		5	12.14	12.06	12.22			
	2	1	9.76	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.07	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.65	11.59	11.75			
Aroclor 1254	1	1	12.29	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.83	14.79	14.95			
		5	15.70	15.66	15.82	0.0973		
	2	1	11.96	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.22	15.17	15.33	0.0757	25.0	
Aroclor 1260	1	1	15.70	15.65	15.81			
		2	17.96	17.93	18.09			
		3	19.13	19.11	19.27			
		4	19.83	19.76	19.92			
		5	22.46	22.40	22.56			
	2	1	15.22	15.17	15.33			
		2	17.47	17.42	17.58			
		3	18.43	18.34	18.50			
		4	19.20	19.14	19.30			
		5	21.46	21.40	21.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-09
Matrix:	Water	Client ID:	MW-32
Sample wt(Dry)/vol:	1020 mL	Lab Sample ID:	AP04511
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/18/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-888-22

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-885-22

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
2	12672-29-6	Aroclor 1248	0.0858	PE
1	11097-69-1	Aroclor 1254	0.147	AF
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were few non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-32
LRF Sample ID:	12040144-09	Lab Sample ID:	AP04511
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/18/2012 1:57:33 AM	Date Analyzed:	04/18/2012 1:57:29 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-22	Lab File ID 2:	GC23F-885-22
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.13	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.13	9.10	9.26			
		4	9.42	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	7.80	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.80	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.17	9.12	9.28			
Aroclor 1221	1	1	5.35	5.26	5.42			
		2	6.47	6.41	6.57			
		3	6.96	6.90	7.06			
		4	7.16	7.10	7.26			
		5	7.29	7.22	7.38			
	2	1	4.76	4.70	4.86			
		2	6.02	5.96	6.12			
		3	6.61	6.52	6.68			
		4	6.77	6.71	6.87			
		5	6.90	6.84	7.00			
Aroclor 1232	1	1	7.29	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.13	9.10	9.26			
		4	9.42	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	6.90	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.80	8.77	8.93			
		4	9.06	8.98	9.14			
		5	9.17	9.12	9.28			
Aroclor 1242	1	1	8.13	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.13	9.10	9.26			
		4	9.42	9.33	9.49			
		5	9.59	9.51	9.67			
	2	1	7.80	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.80	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.17	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-32
LRF Sample ID:	12040144-09	Lab Sample ID:	AP04511
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/18/2012 1:57:33 AM	Date Analyzed:	04/18/2012 1:57:29 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-22	Lab File ID 2:	GC23F-885-22
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.09	10.03	10.19			
		2	10.82	10.77	10.93			
		3	11.43	11.38	11.54			
		4	11.66	11.58	11.74			
		5	12.13	12.06	12.22	0.0613		
	2	1	9.77	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.08	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.65	11.59	11.75	0.0858	33.3	
Aroclor 1254	1	1	12.29	12.24	12.40			
		2	13.06	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.83	14.79	14.95			
		5	15.70	15.66	15.82	0.147		
	2	1	11.96	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.39	14.35	14.51			
		5	15.22	15.17	15.33	0.139	5.59	
Aroclor 1260	1	1	15.70	15.65	15.81			
		2	17.95	17.93	18.09			
		3	19.20	19.11	19.27			
		4	19.82	19.76	19.92			
		5	22.46	22.40	22.56			
	2	1	15.22	15.17	15.33			
		2	17.49	17.42	17.58			
		3	18.40	18.34	18.50			
		4	19.19	19.14	19.30			
		5	21.51	21.40	21.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-10
Matrix:	Water	Client ID:	DUP-1
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AP04512
Percent Moisture:	100	Date Received:	04/13/2012
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	04/16/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/18/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-888-23

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-885-23

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.102	AF
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
Note: There were few non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	DUP-1
LRF Sample ID:	12040144-10	Lab Sample ID:	AP04512
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/18/2012 2:30:10 AM	Date Analyzed:	04/18/2012 2:30:06 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-23	Lab File ID 2:	GC23F-885-23
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.15	8.08	8.24			
		2	8.60	8.49	8.65			
		3	9.11	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.60	9.51	9.67			
	2	1	7.83	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.81	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			
Aroclor 1221	1	1	5.35	5.26	5.42			
		2	6.47	6.41	6.57			
		3	6.97	6.90	7.06			
		4	7.16	7.10	7.26			
		5	7.28	7.22	7.38			
	2	1	4.78	4.70	4.86			
		2	6.04	5.96	6.12			
		3	6.61	6.52	6.68			
		4	6.80	6.71	6.87			
		5	6.90	6.84	7.00			
Aroclor 1232	1	1	7.28	7.22	7.38			
		2	8.60	8.49	8.65			
		3	9.11	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.60	9.51	9.67			
	2	1	6.90	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.81	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			
Aroclor 1242	1	1	8.15	8.08	8.24			
		2	8.60	8.49	8.65			
		3	9.11	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.60	9.51	9.67			
	2	1	7.83	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.81	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.17	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	DUP-1
LRF Sample ID:	12040144-10	Lab Sample ID:	AP04512
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	04/18/2012 2:30:10 AM	Date Analyzed:	04/18/2012 2:30:06 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-888-23	Lab File ID 2:	GC23F-885-23
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.09	10.03	10.19			
		2	10.83	10.77	10.93			
		3	11.45	11.38	11.54			
		4	11.66	11.58	11.74			
		5	12.13	12.06	12.22			
	2	1	9.77	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.08	11.02	11.18			
		4	11.28	11.19	11.35			
		5	11.66	11.59	11.75			
Aroclor 1254	1	1	12.30	12.24	12.40			
		2	13.07	13.02	13.18			
		3	13.36	13.31	13.47			
		4	14.84	14.79	14.95			
		5	15.70	15.66	15.82	0.102		
	2	1	11.97	11.91	12.07			
		2	12.63	12.57	12.73			
		3	12.91	12.86	13.02			
		4	14.40	14.35	14.51			
		5	15.22	15.17	15.33	0.101	0.985	
Aroclor 1260	1	1	15.70	15.65	15.81			
		2	17.96	17.93	18.09			
		3	19.17	19.11	19.27			
		4	19.83	19.76	19.92			
		5	22.44	22.40	22.56			
	2	1	15.22	15.17	15.33			
		2	17.47	17.42	17.58			
		3	18.37	18.34	18.50			
		4	19.18	19.14	19.30			
		5	21.46	21.40	21.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

ANALYTICAL SEQUENCE (GC23F)

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8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040144

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.20 DCBP RT: 26.11

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	011216A	GC23F-823-13	01/12/2012 17:50:19		
02	A1016 10 PPB	011216B	GC23F-823-14	01/12/2012 18:23:03		
03	A1016 20 PPB	011216C	GC23F-823-15	01/12/2012 18:55:40		
04	A1016 50 PPB	011216D	GC23F-823-16	01/12/2012 19:28:19		
05	A1016 100 PPB	011216E	GC23F-823-17	01/12/2012 20:00:57		
06	A1221 5 PPB	011221A	GC23F-823-18	01/12/2012 20:33:42		
07	A1221 10 PPB	011221B	GC23F-823-19	01/12/2012 21:06:23		
08	A1221 20 PPB	011221C	GC23F-823-20	01/12/2012 21:39:00		
09	A1221 50 PPB	011221D	GC23F-823-21	01/12/2012 22:11:42		
10	A1221 100 PPB	011221E	GC23F-823-22	01/12/2012 22:44:21		
11	A1232 5 PPB	011232A	GC23F-823-23	01/12/2012 23:17:05		
12	A1232 10 PPB	011232B	GC23F-823-24	01/12/2012 23:49:49		
13	A1232 20 PPB	011232C	GC23F-823-25	01/13/2012 00:22:27		
14	A1232 50 PPB	011232D	GC23F-823-26	01/13/2012 00:55:04		
15	A1232 100 PPB	011232E	GC23F-823-27	01/13/2012 01:27:49		
16	A1242 5 PPB	011242A	GC23F-823-28	01/13/2012 02:00:32		
17	A1242 10 PPB	011242B	GC23F-823-29	01/13/2012 02:33:15		
18	A1242 20 PPB	011242C	GC23F-823-30	01/13/2012 03:05:53		
19	A1242 50 PPB	011242D	GC23F-823-31	01/13/2012 03:38:36		
20	A1242 100 PPB	011242E	GC23F-823-32	01/13/2012 04:11:20		
21	A1248 5 PPB	011248A	GC23F-823-33	01/13/2012 04:43:59		
22	A1248 10 PPB	011248B	GC23F-823-34	01/13/2012 05:16:43		
23	A1248 20 PPB	011248C	GC23F-823-35	01/13/2012 05:49:27		
24	A1248 50 PPB	011248D	GC23F-823-36	01/13/2012 06:22:12		
25	A1248 100 PPB	011248E	GC23F-823-37	01/13/2012 06:54:56		
26	A1254 5 PPB	011254A	GC23F-823-38	01/13/2012 07:27:39	6.20	26.11
27	A1254 10 PPB	011254B	GC23F-823-39	01/13/2012 08:00:23	6.20	26.11
28	A1254 20 PPB	011254C	GC23F-823-40	01/13/2012 08:33:00	6.21	26.11
29	A1254 50 PPB	011254D	GC23F-823-41	01/13/2012 09:05:45	6.20	26.10
30	A1254 100 PPB	011254E	GC23F-823-42	01/13/2012 09:38:29	6.20	26.10
31	A1260 5 PPB	011260A	GC23F-823-43	01/13/2012 10:11:14		
32	A1260 10 PPB	011260B	GC23F-823-44	01/13/2012 10:43:58		
33	A1260 20 PPB	011260C	GC23F-823-45	01/13/2012 11:16:37		
34	A1260 50 PPB	011260D	GC23F-823-46	01/13/2012 11:49:14		
35	A1260 100 PPB	011260E	GC23F-823-47	01/13/2012 12:21:57		
36	A1262 5 PPB	011262A	GC23F-823-48	01/13/2012 12:54:39		
37	A1262 10 PPB	011262B	GC23F-823-49	01/13/2012 13:27:23		
38	A1262 20 PPB	011262C	GC23F-823-50	01/13/2012 14:00:01		

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040144

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.20 DCBP RT: 26.11

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 50 PPB	011262D	GC23F-823-51	01/13/2012 14:32:44		
40	A1262 100 PPB	011262E	GC23F-823-52	01/13/2012 15:05:28		
41	A1268 5 PPB	011268A	GC23F-823-53	01/13/2012 15:38:11		
42	A1268 10 PPB	011268B	GC23F-823-54	01/13/2012 16:10:56		
43	A1268 20 PPB	011268C	GC23F-823-55	01/13/2012 16:43:34		
44	A1268 50 PPB	011268D	GC23F-823-56	01/13/2012 17:16:12		
45	A1268 100 PPB	011268E	GC23F-823-57	01/13/2012 17:48:57		
46	A1016 50 PPB	CS160112A	GC23F-823-59	01/13/2012 18:54:13	6.20	26.09
47	A1221 50 PPB	CS210112A	GC23F-823-60	01/13/2012 19:26:51	6.20	26.09
48	A1232 50 PPB	CS320112A	GC23F-823-61	01/13/2012 19:59:29	6.20	26.08
49	A1242 50 PPB	CS420112A	GC23F-823-62	01/13/2012 20:32:12	6.20	26.08
50	A1248 50 PPB	CS480112B	GC23F-823-63	01/13/2012 21:04:55	6.20	26.08
51	A1254 50 PPB	CS540112D	GC23F-823-64	01/13/2012 21:37:32	6.20	26.09
52	A1260 50 PPB	CS600112A	GC23F-823-65	01/13/2012 22:10:16	6.20	26.08
53	A1262 50 PPB	CS620112A	GC23F-823-66	01/13/2012 22:42:53	6.20	26.08
54	A1268 50 PPB	CS680112A	GC23F-823-67	01/13/2012 23:15:30	6.20	26.09

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Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040144

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.19 DCBP RT: 26.00

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1260 50 PPB	CS600416A	GC23F-884-5	04/16/2012 10:18:25	6.19	25.98
02	A1254 50 PPB	CS540416A	GC23F-884-6	04/16/2012 10:51:10	6.19	25.98
03	A1248 50 PPB	CS480416A	GC23F-884-7	04/16/2012 11:23:53	6.19	26.01
04	A1242 50 PPB	CS420416A	GC23F-884-8	04/16/2012 11:56:36	6.19	26.01
05	A1232 50 PPB	CS320416A	GC23F-884-9	04/16/2012 12:29:14	6.19	26.02
06	A1221 50 PPB	CS210416A	GC23F-884-10	04/16/2012 13:01:49	6.19	26.01
07	A1016 50 PPB	CS160416A	GC23F-884-11	04/16/2012 13:34:26	6.19	26.01
08	A1254 50 PPB	CS540417A	GC23F-885-9	04/17/2012 18:53:19	6.19	26.00
09	PBLK-11(METHOD BLANK)	AP04503B	GC23F-885-10	04/17/2012 19:25:57	6.19	26.00
10	LCS-11(LAB CONTROL SPIKE)	AP04503L	GC23F-885-11	04/17/2012 19:58:33	6.19	26.01
11	MW-5D	AP04503	GC23F-885-12	04/17/2012 20:31:16	6.18	26.00
12	MW-5D MS	AP04503M	GC23F-885-13	04/17/2012 21:03:53	6.19	26.01
13	MW-5D MSD	AP04503K	GC23F-885-14	04/17/2012 21:36:29	6.19	26.01
14	MW-5	AP04504	GC23F-885-15	04/17/2012 22:09:05	6.19	26.02
15	MW-18	AP04505	GC23F-885-16	04/17/2012 22:41:42	6.19	26.01
16	MW-29	AP04506	GC23F-885-17	04/17/2012 23:14:19	6.19	26.01
17	MW-33	AP04508	GC23F-885-18	04/17/2012 23:47:02	6.19	26.00
18	A1260 50 PPB	CS600417A	GC23F-885-19	04/18/2012 00:19:39	6.19	26.01
19	MW-27D	AP04510	GC23F-885-21	04/18/2012 01:24:52	6.19	26.00
20	MW-32	AP04511	GC23F-885-22	04/18/2012 01:57:29	6.19	26.00
21	DUP-1	AP04512	GC23F-885-23	04/18/2012 02:30:06	6.19	26.01
22	A1016 50 PPB	CS160417A	GC23F-885-24	04/18/2012 03:02:43	6.19	26.01
23	A1016 50 PPB	CS160420A	GC23F-888-3	04/20/2012 08:44:24	6.19	26.01
24	MW-28	AP04509RR1	GC23F-888-5	04/20/2012 10:46:21	6.19(D)	26.02(D)
25	A1221 50 PPB	CS210420A	GC23F-888-6	04/20/2012 11:18:57	6.19	26.02

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

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INITIAL CALIBRATION DATA (GC23F)

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040144
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC23F-823-13	011216A	5.00	224.683		
	GC23F-823-14	011216B	10.0	211.438		
	GC23F-823-15	011216C	20.0	195.178		
	GC23F-823-16	011216D	50.0	189.231		
	GC23F-823-17	011216E	100	184.848	201.076	8.3
Aroclor 1221	GC23F-823-18	011221A	5.00	49.334		
	GC23F-823-19	011221B	10.0	48.795		
	GC23F-823-20	011221C	20.0	49.956		
	GC23F-823-21	011221D	50.0	47.885		
	GC23F-823-22	011221E	100	45.666	48.327	3.5
Aroclor 1232	GC23F-823-23	011232A	5.00	104.574		
	GC23F-823-24	011232B	10.0	93.632		
	GC23F-823-25	011232C	20.0	96.723		
	GC23F-823-26	011232D	50.0	93.741		
	GC23F-823-27	011232E	100	91.258	95.986	5.4
Aroclor 1242	GC23F-823-28	011242A	5.00	184.540		
	GC23F-823-29	011242B	10.0	183.280		
	GC23F-823-30	011242C	20.0	180.571		
	GC23F-823-31	011242D	50.0	167.575		
	GC23F-823-32	011242E	100	174.989	178.191	3.9
Aroclor 1248	GC23F-823-33	011248A	5.00	175.197		
	GC23F-823-34	011248B	10.0	210.875		
	GC23F-823-35	011248C	20.0	178.546		
	GC23F-823-36	011248D	50.0	174.921		
	GC23F-823-37	011248E	100	175.835	183.075	8.5
Aroclor 1254	GC23F-823-38	011254A	5.00	331.728		
	GC23F-823-39	011254B	10.0	329.174		
	GC23F-823-40	011254C	20.0	311.645		
	GC23F-823-41	011254D	50.0	304.894		
	GC23F-823-42	011254E	100	315.787	318.645	3.6
Aroclor 1260	GC23F-823-43	011260A	5.00	486.730		
	GC23F-823-44	011260B	10.0	424.985		
	GC23F-823-45	011260C	20.0	423.665		
	GC23F-823-46	011260D	50.0	427.423		
	GC23F-823-47	011260E	100	416.368	435.834	6.6
Aroclor 1262	GC23F-823-48	011262A	5.00	582.851		
	GC23F-823-49	011262B	10.0	483.125		
	GC23F-823-50	011262C	20.0	483.492		
	GC23F-823-51	011262D	50.0	455.903		
	GC23F-823-52	011262E	100	465.014	494.077	10

FORM VI-CLP-PCB(PACE)

Print Date: 5/4/2012
Lims Version : 5.0.6.5

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040144
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC23F-823-53	011268A	5.00	960.107		
	GC23F-823-54	011268B	10.0	934.519		
	GC23F-823-55	011268C	20.0	800.826		
	GC23F-823-56	011268D	50.0	786.498		
	GC23F-823-57	011268E	100	877.040	871.798	8.9
TCMX	GC23F-823-38	011254A	1.00	1097.318		
	GC23F-823-39	011254B	2.50	1118.525		
	GC23F-823-40	011254C	4.00	1179.526		
	GC23F-823-41	011254D	5.00	1137.682		
	GC23F-823-42	011254E	8.00	1115.034	1129.620	2.8
DCBP	GC23F-823-38	011254A	10.0	1139.073		
	GC23F-823-39	011254B	25.0	1115.208		
	GC23F-823-40	011254C	40.0	1170.411		
	GC23F-823-41	011254D	50.0	1127.514		
	GC23F-823-42	011254E	80.0	1097.881	1130.020	2.4

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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INITIAL/CONTINUING CALIBRATION DATA (GC23F)

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7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC23F-823-59	CS160112A	ICV	52.1	50	4.26		01/13/2012 18:54:13
Aroclor 1221	GC23F-823-60	CS210112A	ICV	56.1	50	12.2		01/13/2012 19:26:51
Aroclor 1232	GC23F-823-61	CS320112A	ICV	49.0	50	-1.96		01/13/2012 19:59:29
Aroclor 1242	GC23F-823-62	CS420112A	ICV	45.3	50	-9.47		01/13/2012 20:32:12
Aroclor 1248	GC23F-823-63	CS480112B	ICV	51.2	50	2.43		01/13/2012 21:04:55
Aroclor 1254	GC23F-823-64	CS540112D	ICV	49.7	50	-0.678		01/13/2012 21:37:32
Aroclor 1260	GC23F-823-65	CS600112A	ICV	50.0	50	-0.0159		01/13/2012 22:10:16
Aroclor 1262	GC23F-823-66	CS620112A	ICV	48.2	50	-3.61		01/13/2012 22:42:53
Aroclor 1268	GC23F-823-67	CS680112A	ICV	47.1	50	-5.89		01/13/2012 23:15:30
Aroclor 1260	GC23F-884-5	CS600416A	CCV	52.8	50	5.62		04/16/2012 10:18:25
Aroclor 1254	GC23F-884-6	CS540416A	CCV	49.9	50	-0.205		04/16/2012 10:51:10
Aroclor 1248	GC23F-884-7	CS480416A	CCV	51.5	50	3.05		04/16/2012 11:23:53
Aroclor 1242	GC23F-884-8	CS420416A	CCV	45.4	50	-9.26		04/16/2012 11:56:36
Aroclor 1232	GC23F-884-9	CS320416A	CCV	51.3	50	2.53		04/16/2012 12:29:14
Aroclor 1221	GC23F-884-10	CS210416A	CCV	49.5	50	-0.965		04/16/2012 13:01:49
Aroclor 1016	GC23F-884-11	CS160416A	CCV	51.1	50	2.22		04/16/2012 13:34:26
Aroclor 1254	GC23F-885-9	CS540417A	CCV	50.3	50	0.646		04/17/2012 18:53:19
Aroclor 1260	GC23F-885-19	CS600417A	CCV	52.7	50	5.50		04/18/2012 00:19:39
Aroclor 1016	GC23F-885-24	CS160417A	CCV	51.3	50	2.54		04/18/2012 03:02:43
	GC23F-888-3	CS160420A	CCV	52.8	50	5.52		04/20/2012 08:44:24
Aroclor 1221	GC23F-888-6	CS210420A	CCV	54.6	50	9.30		04/20/2012 11:18:57

% Difference must be less than or equal to +/- 15 percent
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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FORM VII-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23F-823-59	CS160112A	ICV	1	7.82	7.74	7.90
		CS160112A	ICV	2	8.21	8.13	8.29
		CS160112A	ICV	3	8.84	8.76	8.92
		CS160112A	ICV	4	9.06	8.98	9.14
		CS160112A	ICV	5	9.20	9.12	9.28
Aroclor 1221	GC23F-823-60	CS210112A	ICV	1	4.78	4.70	4.86
		CS210112A	ICV	2	6.04	5.96	6.12
		CS210112A	ICV	3	6.60	6.52	6.68
		CS210112A	ICV	4	6.79	6.71	6.87
		CS210112A	ICV	5	6.92	6.84	7.00
Aroclor 1232	GC23F-823-61	CS320112A	ICV	1	6.92	6.84	7.00
		CS320112A	ICV	2	8.21	8.13	8.29
		CS320112A	ICV	3	8.85	8.77	8.93
		CS320112A	ICV	4	9.06	8.98	9.14
		CS320112A	ICV	5	9.20	9.12	9.28
Aroclor 1242	GC23F-823-62	CS420112A	ICV	1	7.82	7.74	7.90
		CS420112A	ICV	2	8.20	8.12	8.28
		CS420112A	ICV	3	8.84	8.76	8.92
		CS420112A	ICV	4	9.06	8.98	9.14
		CS420112A	ICV	5	9.20	9.12	9.28
Aroclor 1248	GC23F-823-63	CS480112B	ICV	1	9.78	9.70	9.86
		CS480112B	ICV	2	10.45	10.37	10.53
		CS480112B	ICV	3	11.10	11.02	11.18
		CS480112B	ICV	4	11.27	11.19	11.35
		CS480112B	ICV	5	11.67	11.59	11.75
Aroclor 1254	GC23F-823-64	CS540112D	ICV	1	11.99	11.91	12.07
		CS540112D	ICV	2	12.65	12.57	12.73
		CS540112D	ICV	3	12.94	12.86	13.02
		CS540112D	ICV	4	14.43	14.35	14.51
		CS540112D	ICV	5	15.25	15.17	15.33
Aroclor 1260	GC23F-823-65	CS600112A	ICV	1	15.25	15.17	15.33
		CS600112A	ICV	2	17.50	17.42	17.58
		CS600112A	ICV	3	18.42	18.34	18.50
		CS600112A	ICV	4	19.22	19.14	19.30
		CS600112A	ICV	5	21.48	21.40	21.56
Aroclor 1262	GC23F-823-66	CS620112A	ICV	1	15.25	15.17	15.33
		CS620112A	ICV	2	17.51	17.43	17.59
		CS620112A	ICV	3	18.43	18.35	18.51

FORM VII-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620112A	ICV	4	19.22	19.14	19.30
		CS620112A	ICV	5	21.48	21.40	21.56
Aroclor 1268	GC23F-823-67	CS680112A	ICV	1	19.22	19.14	19.30
		CS680112A	ICV	2	21.49	21.41	21.57
		CS680112A	ICV	3	18.99	18.91	19.07
		CS680112A	ICV	4	20.56	20.48	20.64
		CS680112A	ICV	5	20.94	20.86	21.02

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23F-884-11	CS160416A	CCV	1	7.81	7.74	7.90
		CS160416A	CCV	2	8.20	8.13	8.29
		CS160416A	CCV	3	8.83	8.76	8.92
		CS160416A	CCV	4	9.05	8.98	9.14
		CS160416A	CCV	5	9.19	9.12	9.28
	GC23F-885-24	CS160417A	CCV	1	7.81	7.74	7.90
		CS160417A	CCV	2	8.20	8.13	8.29
		CS160417A	CCV	3	8.83	8.76	8.92
		CS160417A	CCV	4	9.05	8.98	9.14
		CS160417A	CCV	5	9.19	9.12	9.28
	GC23F-888-3	CS160420A	CCV	1	7.81	7.74	7.90
		CS160420A	CCV	2	8.20	8.13	8.29
		CS160420A	CCV	3	8.83	8.76	8.92
		CS160420A	CCV	4	9.05	8.98	9.14
		CS160420A	CCV	5	9.19	9.12	9.28
Aroclor 1221	GC23F-884-10	CS210416A	CCV	1	4.77	4.70	4.86
		CS210416A	CCV	2	6.02	5.96	6.12
		CS210416A	CCV	3	6.59	6.52	6.68
		CS210416A	CCV	4	6.79	6.71	6.87
		CS210416A	CCV	5	6.91	6.84	7.00
	GC23F-888-6	CS210420A	CCV	1	4.78	4.70	4.86
		CS210420A	CCV	2	6.03	5.96	6.12
		CS210420A	CCV	3	6.59	6.52	6.68
		CS210420A	CCV	4	6.79	6.71	6.87
		CS210420A	CCV	5	6.91	6.84	7.00
Aroclor 1232	GC23F-884-9	CS320416A	CCV	1	6.91	6.84	7.00
		CS320416A	CCV	2	8.20	8.13	8.29
		CS320416A	CCV	3	8.83	8.77	8.93
		CS320416A	CCV	4	9.05	8.98	9.14
		CS320416A	CCV	5	9.19	9.12	9.28
Aroclor 1242	GC23F-884-8	CS420416A	CCV	1	7.81	7.74	7.90
		CS420416A	CCV	2	8.19	8.12	8.28
		CS420416A	CCV	3	8.83	8.76	8.92
		CS420416A	CCV	4	9.05	8.98	9.14
		CS420416A	CCV	5	9.19	9.12	9.28
Aroclor 1248	GC23F-884-7	CS480416A	CCV	1	9.77	9.70	9.86
		CS480416A	CCV	2	10.43	10.37	10.53
		CS480416A	CCV	3	11.08	11.02	11.18

FORM VII-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1248		CS480416A	CCV	4	11.25	11.19	11.35
		CS480416A	CCV	5	11.65	11.59	11.75
Aroclor 1254	GC23F-884-6	CS540416A	CCV	1	11.96	11.91	12.07
		CS540416A	CCV	2	12.62	12.57	12.73
		CS540416A	CCV	3	12.90	12.86	13.02
		CS540416A	CCV	4	14.39	14.35	14.51
		CS540416A	CCV	5	15.21	15.17	15.33
	GC23F-885-9	CS540417A	CCV	1	11.97	11.91	12.07
		CS540417A	CCV	2	12.63	12.57	12.73
		CS540417A	CCV	3	12.91	12.86	13.02
		CS540417A	CCV	4	14.40	14.35	14.51
		CS540417A	CCV	5	15.22	15.17	15.33
Aroclor 1260	GC23F-884-5	CS600416A	CCV	1	15.22	15.17	15.33
		CS600416A	CCV	2	17.47	17.42	17.58
		CS600416A	CCV	3	18.38	18.34	18.50
		CS600416A	CCV	4	19.17	19.14	19.30
		CS600416A	CCV	5	21.41	21.40	21.56
	GC23F-885-19	CS600417A	CCV	1	15.22	15.17	15.33
		CS600417A	CCV	2	17.47	17.42	17.58
		CS600417A	CCV	3	18.39	18.34	18.50
		CS600417A	CCV	4	19.18	19.14	19.30
		CS600417A	CCV	5	21.43	21.40	21.56

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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ANALYTICAL SEQUENCE (GC23B)

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040144

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.53 DCBP RT: 27.36

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1260 50 PPB	CS600416A	GC23B-887-5	04/16/2012 10:18:29	6.53	27.35
02	A1254 50 PPB	CS540416A	GC23B-887-6	04/16/2012 10:51:14	6.52	27.33
03	A1248 50 PPB	CS480416A	GC23B-887-7	04/16/2012 11:23:57	6.53	27.36
04	A1242 50 PPB	CS420416A	GC23B-887-8	04/16/2012 11:56:40	6.53	27.36
05	A1232 50 PPB	CS320416A	GC23B-887-9	04/16/2012 12:29:18	6.53	27.38
06	A1221 50 PPB	CS210416A	GC23B-887-10	04/16/2012 13:01:53	6.52	27.37
07	A1016 50 PPB	CS160416A	GC23B-887-11	04/16/2012 13:34:30	6.53	27.37
08	A1254 50 PPB	CS540417A	GC23B-888-9	04/17/2012 18:53:23	6.53	27.36
09	PBLK-11(METHOD BLANK)	AP04503B	GC23B-888-10	04/17/2012 19:26:01	6.53	27.36
10	LCS-11(LAB CONTROL SPIKE)	AP04503L	GC23B-888-11	04/17/2012 19:58:37	6.53	27.37
11	MW-5D	AP04503	GC23B-888-12	04/17/2012 20:31:20	6.52	27.36
12	MW-5D MS	AP04503M	GC23B-888-13	04/17/2012 21:03:57	6.53	27.36
13	MW-5D MSD	AP04503K	GC23B-888-14	04/17/2012 21:36:33	6.53	27.37
14	MW-5	AP04504	GC23B-888-15	04/17/2012 22:09:09	6.53	27.37
15	MW-18	AP04505	GC23B-888-16	04/17/2012 22:41:46	6.53	27.37
16	MW-29	AP04506	GC23B-888-17	04/17/2012 23:14:23	6.52	27.36
17	MW-33	AP04508	GC23B-888-18	04/17/2012 23:47:06	6.53	27.36
18	A1260 50 PPB	CS600417A	GC23B-888-19	04/18/2012 00:19:43	6.53	27.36
19	MW-27D	AP04510	GC23B-888-21	04/18/2012 01:24:56	6.52	27.36
20	MW-32	AP04511	GC23B-888-22	04/18/2012 01:57:33	6.52	27.36
21	DUP-1	AP04512	GC23B-888-23	04/18/2012 02:30:10	6.53	27.37
22	A1016 50 PPB	CS160417A	GC23B-888-24	04/18/2012 03:02:47	6.53	27.36
23	A1016 50 PPB	CS160420A	GC23B-891-3	04/20/2012 08:44:29	6.53	27.37
24	MW-28	AP04509RR1	GC23B-891-5	04/20/2012 10:46:25	6.53(D)	27.38(D)
25	A1221 50 PPB	CS210420A	GC23B-891-6	04/20/2012 11:19:01	6.53	27.37

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Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040144

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.54 DCBP RT: 27.48

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	011216A	GC23B-823-13	01/12/2012 17:50:23		
02	A1016 10 PPB	011216B	GC23B-823-14	01/12/2012 18:23:07		
03	A1016 20 PPB	011216C	GC23B-823-15	01/12/2012 18:55:45		
04	A1016 50 PPB	011216D	GC23B-823-16	01/12/2012 19:28:23		
05	A1016 100 PPB	011216E	GC23B-823-17	01/12/2012 20:01:01		
06	A1221 5 PPB	011221A	GC23B-823-18	01/12/2012 20:33:45		
07	A1221 10 PPB	011221B	GC23B-823-19	01/12/2012 21:06:27		
08	A1221 20 PPB	011221C	GC23B-823-20	01/12/2012 21:39:04		
09	A1221 50 PPB	011221D	GC23B-823-21	01/12/2012 22:11:46		
10	A1221 100 PPB	011221E	GC23B-823-22	01/12/2012 22:44:25		
11	A1232 5 PPB	011232A	GC23B-823-23	01/12/2012 23:17:09		
12	A1232 10 PPB	011232B	GC23B-823-24	01/12/2012 23:49:53		
13	A1232 20 PPB	011232C	GC23B-823-25	01/13/2012 00:22:31		
14	A1232 50 PPB	011232D	GC23B-823-26	01/13/2012 00:55:08		
15	A1232 100 PPB	011232E	GC23B-823-27	01/13/2012 01:27:53		
16	A1242 5 PPB	011242A	GC23B-823-28	01/13/2012 02:00:36		
17	A1242 10 PPB	011242B	GC23B-823-29	01/13/2012 02:33:19		
18	A1242 20 PPB	011242C	GC23B-823-30	01/13/2012 03:05:57		
19	A1242 50 PPB	011242D	GC23B-823-31	01/13/2012 03:38:40		
20	A1242 100 PPB	011242E	GC23B-823-32	01/13/2012 04:11:24		
21	A1248 5 PPB	011248A	GC23B-823-33	01/13/2012 04:44:03		
22	A1248 10 PPB	011248B	GC23B-823-34	01/13/2012 05:16:47		
23	A1248 20 PPB	011248C	GC23B-823-35	01/13/2012 05:49:31		
24	A1248 50 PPB	011248D	GC23B-823-36	01/13/2012 06:22:16		
25	A1248 100 PPB	011248E	GC23B-823-37	01/13/2012 06:55:00		
26	A1254 5 PPB	011254A	GC23B-823-38	01/13/2012 07:27:43	6.54	27.49
27	A1254 10 PPB	011254B	GC23B-823-39	01/13/2012 08:00:27	6.54	27.48
28	A1254 20 PPB	011254C	GC23B-823-40	01/13/2012 08:33:05	6.54	27.48
29	A1254 50 PPB	011254D	GC23B-823-41	01/13/2012 09:05:49	6.54	27.47
30	A1254 100 PPB	011254E	GC23B-823-42	01/13/2012 09:38:33	6.54	27.47
31	A1260 5 PPB	011260A	GC23B-823-43	01/13/2012 10:11:18		
32	A1260 10 PPB	011260B	GC23B-823-44	01/13/2012 10:44:02		
33	A1260 20 PPB	011260C	GC23B-823-45	01/13/2012 11:16:41		
34	A1260 50 PPB	011260D	GC23B-823-46	01/13/2012 11:49:18		
35	A1260 100 PPB	011260E	GC23B-823-47	01/13/2012 12:22:01		
36	A1262 5 PPB	011262A	GC23B-823-48	01/13/2012 12:54:43		
37	A1262 10 PPB	011262B	GC23B-823-49	01/13/2012 13:27:27		
38	A1262 20 PPB	011262C	GC23B-823-50	01/13/2012 14:00:05		

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040144

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.54 DCBP RT: 27.48

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 50 PPB	011262D	GC23B-823-51	01/13/2012 14:32:48		
40	A1262 100 PPB	011262E	GC23B-823-52	01/13/2012 15:05:32		
41	A1268 5 PPB	011268A	GC23B-823-53	01/13/2012 15:38:15		
42	A1268 10 PPB	011268B	GC23B-823-54	01/13/2012 16:11:00		
43	A1268 20 PPB	011268C	GC23B-823-55	01/13/2012 16:43:38		
44	A1268 50 PPB	011268D	GC23B-823-56	01/13/2012 17:16:16		
45	A1268 100 PPB	011268E	GC23B-823-57	01/13/2012 17:49:01		
46	A1016 50 PPB	CS160112A	GC23B-823-59	01/13/2012 18:54:17	6.54	27.45
47	A1221 50 PPB	CS210112A	GC23B-823-60	01/13/2012 19:26:55	6.54	27.46
48	A1232 50 PPB	CS320112A	GC23B-823-61	01/13/2012 19:59:33	6.54	27.46
49	A1242 50 PPB	CS420112A	GC23B-823-62	01/13/2012 20:32:16	6.54	27.45
50	A1248 50 PPB	CS480112B	GC23B-823-63	01/13/2012 21:04:59	6.54	27.46
51	A1254 50 PPB	CS540112D	GC23B-823-64	01/13/2012 21:37:36	6.54	27.46
52	A1260 50 PPB	CS600112A	GC23B-823-65	01/13/2012 22:10:20	6.53	27.45
53	A1262 50 PPB	CS620112A	GC23B-823-66	01/13/2012 22:42:57	6.54	27.46
54	A1268 50 PPB	CS680112A	GC23B-823-67	01/13/2012 23:15:34	6.54	27.46

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Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC23B)

13

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040144
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC23B-823-13	011216A	5.00	264.376		
	GC23B-823-14	011216B	10.0	234.119		
	GC23B-823-15	011216C	20.0	229.051		
	GC23B-823-16	011216D	50.0	223.163		
	GC23B-823-17	011216E	100	216.340	233.410	7.9
Aroclor 1221	GC23B-823-18	011221A	5.00	58.529		
	GC23B-823-19	011221B	10.0	59.862		
	GC23B-823-20	011221C	20.0	59.280		
	GC23B-823-21	011221D	50.0	58.002		
	GC23B-823-22	011221E	100	55.813	58.297	2.7
Aroclor 1232	GC23B-823-23	011232A	5.00	108.994		
	GC23B-823-24	011232B	10.0	124.290		
	GC23B-823-25	011232C	20.0	116.106		
	GC23B-823-26	011232D	50.0	112.669		
	GC23B-823-27	011232E	100	109.289	114.270	5.5
Aroclor 1242	GC23B-823-28	011242A	5.00	196.356		
	GC23B-823-29	011242B	10.0	220.385		
	GC23B-823-30	011242C	20.0	208.880		
	GC23B-823-31	011242D	50.0	199.225		
	GC23B-823-32	011242E	100	207.769	206.523	4.6
Aroclor 1248	GC23B-823-33	011248A	5.00	237.923		
	GC23B-823-34	011248B	10.0	234.148		
	GC23B-823-35	011248C	20.0	214.732		
	GC23B-823-36	011248D	50.0	213.418		
	GC23B-823-37	011248E	100	206.478	221.340	6.3
Aroclor 1254	GC23B-823-38	011254A	5.00	387.329		
	GC23B-823-39	011254B	10.0	376.842		
	GC23B-823-40	011254C	20.0	360.643		
	GC23B-823-41	011254D	50.0	354.772		
	GC23B-823-42	011254E	100	376.848	371.287	3.6
Aroclor 1260	GC23B-823-43	011260A	5.00	570.701		
	GC23B-823-44	011260B	10.0	517.121		
	GC23B-823-45	011260C	20.0	508.429		
	GC23B-823-46	011260D	50.0	513.939		
	GC23B-823-47	011260E	100	502.401	522.518	5.3
Aroclor 1262	GC23B-823-48	011262A	5.00	667.306		
	GC23B-823-49	011262B	10.0	564.776		
	GC23B-823-50	011262C	20.0	585.547		
	GC23B-823-51	011262D	50.0	544.099		
	GC23B-823-52	011262E	100	555.450	583.436	8.4

FORM VI-CLP-PCB(PACE)

Print Date: 5/4/2012
Lims Version : 5.0.6.5

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040144
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC23B-823-53	011268A	5.00	1056.677		
	GC23B-823-54	011268B	10.0	1107.159		
	GC23B-823-55	011268C	20.0	950.117		
	GC23B-823-56	011268D	50.0	940.271		
	GC23B-823-57	011268E	100	1040.211	1018.890	7.0
TCMX	GC23B-823-38	011254A	1.00	1332.518		
	GC23B-823-39	011254B	2.50	1334.917		
	GC23B-823-40	011254C	4.00	1416.181		
	GC23B-823-41	011254D	5.00	1353.452		
	GC23B-823-42	011254E	8.00	1369.876	1361.390	2.5
DCBP	GC23B-823-38	011254A	10.0	1329.852		
	GC23B-823-39	011254B	25.0	1331.710		
	GC23B-823-40	011254C	40.0	1395.351		
	GC23B-823-41	011254D	50.0	1328.473		
	GC23B-823-42	011254E	80.0	1335.410	1344.160	2.1

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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INITIAL/CONTINUING CALIBRATION DATA (GC23B)

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7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12040144

ELAP ID No: 11078

Instrument ID: GC23B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC23B-823-59	CS160112A	ICV	56.0	50	12.0		01/13/2012 18:54:17
Aroclor 1221	GC23B-823-60	CS210112A	ICV	56.4	50	12.8		01/13/2012 19:26:55
Aroclor 1232	GC23B-823-61	CS320112A	ICV	52.1	50	4.10		01/13/2012 19:59:33
Aroclor 1242	GC23B-823-62	CS420112A	ICV	48.4	50	-3.28		01/13/2012 20:32:16
Aroclor 1248	GC23B-823-63	CS480112B	ICV	55.3	50	10.5		01/13/2012 21:04:59
Aroclor 1254	GC23B-823-64	CS540112D	ICV	51.6	50	3.29		01/13/2012 21:37:36
Aroclor 1260	GC23B-823-65	CS600112A	ICV	52.9	50	5.82		01/13/2012 22:10:20
Aroclor 1262	GC23B-823-66	CS620112A	ICV	50.8	50	1.64		01/13/2012 22:42:57
Aroclor 1268	GC23B-823-67	CS680112A	ICV	48.1	50	-3.79		01/13/2012 23:15:34
Aroclor 1260	GC23B-887-5	CS600416A	CCV	47.5	50	-5.06		04/16/2012 10:18:29
Aroclor 1254	GC23B-887-6	CS540416A	CCV	48.0	50	-3.92		04/16/2012 10:51:14
Aroclor 1248	GC23B-887-7	CS480416A	CCV	49.2	50	-1.51		04/16/2012 11:23:57
Aroclor 1242	GC23B-887-8	CS420416A	CCV	45.5	50	-9.04		04/16/2012 11:56:40
Aroclor 1232	GC23B-887-9	CS320416A	CCV	50.4	50	0.863		04/16/2012 12:29:18
Aroclor 1221	GC23B-887-10	CS210416A	CCV	51.4	50	2.83		04/16/2012 13:01:53
Aroclor 1016	GC23B-887-11	CS160416A	CCV	53.8	50	7.65		04/16/2012 13:34:30
Aroclor 1254	GC23B-888-9	CS540417A	CCV	48.7	50	-2.63		04/17/2012 18:53:23
Aroclor 1260	GC23B-888-19	CS600417A	CCV	49.7	50	-0.526		04/18/2012 00:19:43
Aroclor 1016	GC23B-888-24	CS160417A	CCV	52.3	50	4.53		04/18/2012 03:02:47
	GC23B-891-3	CS160420A	CCV	54.1	50	8.28		04/20/2012 08:44:29
Aroclor 1221	GC23B-891-6	CS210420A	CCV	51.8	50	3.64		04/20/2012 11:19:01

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23B-823-59	CS160112A	ICV	1	8.16	8.08	8.24
		CS160112A	ICV	2	8.57	8.49	8.65
		CS160112A	ICV	3	9.18	9.10	9.26
		CS160112A	ICV	4	9.41	9.33	9.49
		CS160112A	ICV	5	9.59	9.51	9.67
Aroclor 1221	GC23B-823-60	CS210112A	ICV	1	5.34	5.26	5.42
		CS210112A	ICV	2	6.49	6.41	6.57
		CS210112A	ICV	3	6.98	6.90	7.06
		CS210112A	ICV	4	7.18	7.10	7.26
		CS210112A	ICV	5	7.30	7.22	7.38
Aroclor 1232	GC23B-823-61	CS320112A	ICV	1	7.30	7.22	7.38
		CS320112A	ICV	2	8.57	8.49	8.65
		CS320112A	ICV	3	9.18	9.10	9.26
		CS320112A	ICV	4	9.41	9.33	9.49
		CS320112A	ICV	5	9.59	9.51	9.67
Aroclor 1242	GC23B-823-62	CS420112A	ICV	1	8.16	8.08	8.24
		CS420112A	ICV	2	8.57	8.49	8.65
		CS420112A	ICV	3	9.18	9.10	9.26
		CS420112A	ICV	4	9.41	9.33	9.49
		CS420112A	ICV	5	9.59	9.51	9.67
Aroclor 1248	GC23B-823-63	CS480112B	ICV	1	10.11	10.03	10.19
		CS480112B	ICV	2	10.85	10.77	10.93
		CS480112B	ICV	3	11.46	11.38	11.54
		CS480112B	ICV	4	11.66	11.58	11.74
		CS480112B	ICV	5	12.14	12.06	12.22
Aroclor 1254	GC23B-823-64	CS540112D	ICV	1	12.32	12.24	12.40
		CS540112D	ICV	2	13.10	13.02	13.18
		CS540112D	ICV	3	13.39	13.31	13.47
		CS540112D	ICV	4	14.87	14.79	14.95
		CS540112D	ICV	5	15.74	15.66	15.82
Aroclor 1260	GC23B-823-65	CS600112A	ICV	1	15.73	15.65	15.81
		CS600112A	ICV	2	18.01	17.93	18.09
		CS600112A	ICV	3	19.19	19.11	19.27
		CS600112A	ICV	4	19.84	19.76	19.92
		CS600112A	ICV	5	22.48	22.40	22.56
Aroclor 1262	GC23B-823-66	CS620112A	ICV	1	15.73	15.65	15.81
		CS620112A	ICV	2	18.01	17.93	18.09
		CS620112A	ICV	3	19.19	19.11	19.27

FORM VII-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620112A	ICV	4	19.84	19.76	19.92
		CS620112A	ICV	5	22.48	22.40	22.56
Aroclor 1268	GC23B-823-67	CS680112A	ICV	1	19.83	19.75	19.91
		CS680112A	ICV	2	22.49	22.41	22.57
		CS680112A	ICV	3	19.60	19.52	19.68
		CS680112A	ICV	4	21.27	21.19	21.35
		CS680112A	ICV	5	21.71	21.63	21.79

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23B-887-11	CS160416A	CCV	1	8.15	8.08	8.24
		CS160416A	CCV	2	8.56	8.49	8.65
		CS160416A	CCV	3	9.17	9.10	9.26
		CS160416A	CCV	4	9.40	9.33	9.49
		CS160416A	CCV	5	9.58	9.51	9.67
	GC23B-888-24	CS160417A	CCV	1	8.15	8.08	8.24
		CS160417A	CCV	2	8.56	8.49	8.65
		CS160417A	CCV	3	9.17	9.10	9.26
		CS160417A	CCV	4	9.40	9.33	9.49
		CS160417A	CCV	5	9.58	9.51	9.67
	GC23B-891-3	CS160420A	CCV	1	8.15	8.08	8.24
		CS160420A	CCV	2	8.56	8.49	8.65
		CS160420A	CCV	3	9.17	9.10	9.26
		CS160420A	CCV	4	9.40	9.33	9.49
		CS160420A	CCV	5	9.58	9.51	9.67
Aroclor 1221	GC23B-887-10	CS210416A	CCV	1	5.33	5.26	5.42
		CS210416A	CCV	2	6.48	6.41	6.57
		CS210416A	CCV	3	6.96	6.90	7.06
		CS210416A	CCV	4	7.17	7.10	7.26
		CS210416A	CCV	5	7.29	7.22	7.38
	GC23B-891-6	CS210420A	CCV	1	5.33	5.26	5.42
		CS210420A	CCV	2	6.48	6.41	6.57
		CS210420A	CCV	3	6.96	6.90	7.06
		CS210420A	CCV	4	7.17	7.10	7.26
		CS210420A	CCV	5	7.29	7.22	7.38
Aroclor 1232	GC23B-887-9	CS320416A	CCV	1	7.29	7.22	7.38
		CS320416A	CCV	2	8.56	8.49	8.65
		CS320416A	CCV	3	9.17	9.10	9.26
		CS320416A	CCV	4	9.40	9.33	9.49
		CS320416A	CCV	5	9.58	9.51	9.67
Aroclor 1242	GC23B-887-8	CS420416A	CCV	1	8.15	8.08	8.24
		CS420416A	CCV	2	8.56	8.49	8.65
		CS420416A	CCV	3	9.17	9.10	9.26
		CS420416A	CCV	4	9.39	9.33	9.49
		CS420416A	CCV	5	9.58	9.51	9.67
Aroclor 1248	GC23B-887-7	CS480416A	CCV	1	10.10	10.03	10.19
		CS480416A	CCV	2	10.83	10.77	10.93
		CS480416A	CCV	3	11.44	11.38	11.54

FORM VII-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040144
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	LAB SAMPLE ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1248		CS480416A	CCV	4	11.64	11.58	11.74
		CS480416A	CCV	5	12.11	12.06	12.22
Aroclor 1254	GC23B-887-6	CS540416A	CCV	1	12.29	12.24	12.40
		CS540416A	CCV	2	13.06	13.02	13.18
		CS540416A	CCV	3	13.35	13.31	13.47
		CS540416A	CCV	4	14.83	14.79	14.95
		CS540416A	CCV	5	15.69	15.66	15.82
	GC23B-888-9	CS540417A	CCV	1	12.30	12.24	12.40
		CS540417A	CCV	2	13.07	13.02	13.18
		CS540417A	CCV	3	13.36	13.31	13.47
		CS540417A	CCV	4	14.84	14.79	14.95
		CS540417A	CCV	5	15.70	15.66	15.82
Aroclor 1260	GC23B-887-5	CS600416A	CCV	1	15.70	15.65	15.81
		CS600416A	CCV	2	17.97	17.93	18.09
		CS600416A	CCV	3	19.14	19.11	19.27
		CS600416A	CCV	4	19.79	19.76	19.92
		CS600416A	CCV	5	22.41	22.40	22.56
	GC23B-888-19	CS600417A	CCV	1	15.70	15.65	15.81
		CS600417A	CCV	2	17.97	17.93	18.09
		CS600417A	CCV	3	19.15	19.11	19.27
		CS600417A	CCV	4	19.79	19.76	19.92
		CS600417A	CCV	5	22.42	22.40	22.56

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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QC SAMPLE RAW DATA

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1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	PBLK-11
Matrix:	Water	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP04503B
Percent Moisture:	100	Lab File ID:	GC23F-885-10
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	04/16/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	PBLK-11
Matrix:	Water	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP04503B
Percent Moisture:	100	Lab File ID:	GC23B-888-10
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	04/16/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	LCS-11
Matrix:	Water	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP04503L
Percent Moisture:	100	Lab File ID:	GC23F-885-11
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	04/16/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.480	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	LCS-11
Matrix:	Water	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP04503L
Percent Moisture:	100	Lab File ID:	GC23B-888-11
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	04/16/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.468	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	LCS-11(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-11	Lab Sample ID:	AP04503L
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/17/2012 7:58:33 PM	Date Analyzed:	04/17/2012 7:58:37 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-885-11	Lab File ID 2:	GC23B-888-11
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28	0.480		
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67	0.468	2.53	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	LCS-11(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-11	Lab Sample ID:	AP04503L
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/17/2012 7:58:33 PM	Date Analyzed:	04/17/2012 7:58:37 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-885-11	Lab File ID 2:	GC23B-888-11
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.70	9.86			
		2	NA	10.37	10.53			
		3	NA	11.02	11.18			
		4	NA	11.19	11.35			
		5	NA	11.59	11.75			
	2	1	NA	10.03	10.19			
		2	NA	10.77	10.93			
		3	NA	11.38	11.54			
		4	NA	11.58	11.74			
		5	NA	12.06	12.22			
Aroclor 1254	1	1	NA	11.91	12.07			
		2	NA	12.57	12.73			
		3	NA	12.86	13.02			
		4	NA	14.35	14.51			
		5	NA	15.17	15.33			
	2	1	NA	12.24	12.40			
		2	NA	13.02	13.18			
		3	NA	13.31	13.47			
		4	NA	14.79	14.95			
		5	NA	15.66	15.82			
Aroclor 1260	1	1	NA	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	NA	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

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Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-01MS
Matrix:	Water	Client ID:	MW-5D MS
Sample wt(Dry)/vol:	1020 mL	Lab Sample ID:	AP04503M
Percent Moisture:	100	Lab File ID:	GC23F-885-13
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	04/13/2012
Conc. Extract Volume:	10000 uL	Date Extracted:	04/16/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.469	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
Note: There were few non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-01MS
Matrix:	Water	Client ID:	MW-5D MS
Sample wt(Dry)/vol:	1020 mL	Lab Sample ID:	AP04503M
Percent Moisture:	100	Lab File ID:	GC23B-888-13
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	04/13/2012
Conc. Extract Volume:	10000 uL	Date Extracted:	04/16/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.464	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
Note: There were few non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-5D MS
LRF Sample ID:	12040144-01MS	Lab Sample ID:	AP04503M
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/17/2012 9:03:53 PM	Date Analyzed:	04/17/2012 9:03:57 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-885-13	Lab File ID 2:	GC23B-888-13
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.04	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.14	8.08	8.24			
		2	8.55	8.49	8.65			
		3	9.16	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.04	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	8.55	8.49	8.65			
		3	9.16	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.04	8.98	9.14			
		5	9.19	9.12	9.28	0.469		
	2	1	8.14	8.08	8.24			
		2	8.55	8.49	8.65			
		3	9.16	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67	0.464	1.07	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-5D MS
LRF Sample ID:	12040144-01MS	Lab Sample ID:	AP04503M
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/17/2012 9:03:53 PM	Date Analyzed:	04/17/2012 9:03:57 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-885-13	Lab File ID 2:	GC23B-888-13
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.70	9.86			
		2	NA	10.37	10.53			
		3	NA	11.02	11.18			
		4	NA	11.19	11.35			
		5	NA	11.59	11.75			
	2	1	NA	10.03	10.19			
		2	NA	10.77	10.93			
		3	NA	11.38	11.54			
		4	NA	11.58	11.74			
		5	NA	12.06	12.22			
Aroclor 1254	1	1	NA	11.91	12.07			
		2	NA	12.57	12.73			
		3	NA	12.86	13.02			
		4	NA	14.35	14.51			
		5	NA	15.17	15.33			
	2	1	NA	12.24	12.40			
		2	NA	13.02	13.18			
		3	NA	13.31	13.47			
		4	NA	14.79	14.95			
		5	NA	15.66	15.82			
Aroclor 1260	1	1	NA	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	NA	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

15

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-01MSD
Matrix:	Water	Client ID:	MW-5D MSD
Sample wt(Dry)/vol:	1020 mL	Lab Sample ID:	AP04503K
Percent Moisture:	100	Lab File ID:	GC23F-885-14
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	04/13/2012
Conc. Extract Volume:	10000 uL	Date Extracted:	04/16/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.461	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
Note: There were few non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	LRF ID:	12040144-01MSD
Matrix:	Water	Client ID:	MW-5D MSD
Sample wt(Dry)/vol:	1020 mL	Lab Sample ID:	AP04503K
Percent Moisture:	100	Lab File ID:	GC23B-888-14
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	04/13/2012
Conc. Extract Volume:	10000 uL	Date Extracted:	04/16/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/17/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.462	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
Note: There were few non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-5D MSD
LRF Sample ID:	12040144-01MSD	Lab Sample ID:	AP04503K
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/17/2012 9:36:29 PM	Date Analyzed:	04/17/2012 9:36:33 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-885-14	Lab File ID 2:	GC23B-888-14
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.19	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.04	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.16	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	8.19	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.04	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.16	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.19	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.04	8.98	9.14			
		5	9.19	9.12	9.28	0.461		
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.16	9.10	9.26			
		4	9.39	9.33	9.49			
		5	9.57	9.51	9.67	0.462	0.217	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040144
ELAP ID No:	11078	Client ID:	MW-5D MSD
LRF Sample ID:	12040144-01MSD	Lab Sample ID:	AP04503K
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/17/2012 9:36:29 PM	Date Analyzed:	04/17/2012 9:36:33 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-885-14	Lab File ID 2:	GC23B-888-14
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.70	9.86			
		2	NA	10.37	10.53			
		3	NA	11.02	11.18			
		4	NA	11.19	11.35			
		5	NA	11.59	11.75			
	2	1	NA	10.03	10.19			
		2	NA	10.77	10.93			
		3	NA	11.38	11.54			
		4	NA	11.58	11.74			
		5	NA	12.06	12.22			
Aroclor 1254	1	1	NA	11.91	12.07			
		2	NA	12.57	12.73			
		3	NA	12.86	13.02			
		4	NA	14.35	14.51			
		5	NA	15.17	15.33			
	2	1	NA	12.24	12.40			
		2	NA	13.02	13.18			
		3	NA	13.31	13.47			
		4	NA	14.79	14.95			
		5	NA	15.66	15.82			
Aroclor 1260	1	1	NA	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	NA	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

15

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 5/7/2012
Lims Version : 5.0.6.5

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: 115058
Sampling Date(s): April 18, 2012
Lab Report ID: 12040224
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis (Water)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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CASE NARRATIVE

April 30, 2012

CASE NARRATIVE

This data package (SDG ID: 12040224) consists of 1 water sample received on 04/20/2012. The sample is from Project Name: 115058.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AP04865	MW31	04/18/2012 11:20

1

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via FEDEX delivery service on 04/20/2012.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) The following cooler temperature was recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 4.7 degrees Celsius. Please see Chain of Custody for details.

Note: Sample (Client ID: MW31) was originally sampled with SDG ID: 12040144. The sample was received at the laboratory broken during shipment. This sample is the re-sample.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.

(2.) Sample (LAB ID: AP04865) including quality control samples (LAB ID: AP04865B and AP04865L) was re-analyzed due to an auto sampler injection error on the closing calibration check standard. The results for the re-analyses are provided with RR1 suffix.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
(2.) J-Denotes concentration result greater than the MDL but less than the RL.
(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

William A. Kotas
Client Services Manager

S:\Lims Data\1204\12040224\Package\CN_12040224_Rev01.doc

SAMPLE CHAIN OF CUSTODY

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	TRC
Address:	650 SUFFOLK ST
	LOWELL MA
Email To:	DSULLIVAN@TRCSOLUTIONS.com ALEONARD
Phone:	617 4628090
Fax:	9789705600
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	AL LEONARD
Copy To:	DAVID SULLIVAN
	JASON FIERO
Purchase Order No.:	C115058
Project Name:	PSWS NBHS
Project Number:	115058

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

<12040224P1>

120402241

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER MA

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: PCBs	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	MW31	WT	G	4/18/12	11:20				2	✓									✓		AP04865
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

INCLUDE CHROMATOGRAMS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Jason L Fiero TRC	4/19						Y/N	Y/N	Y/N
FedEx	4/20/12	7:59	Peter Bodzi PALF	4/20/12	7:59	4.7	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emilie L. Wachtel

SIGNATURE of SAMPLER: Emilie L Wachtel

DATE Signed (MM/DD/YY): 4/19/12

e-File(ALLQ020rev.3,31Mar05))22Jun2005

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG

Pace Analytical®

Prep Date: 04/23/12 **Batch ID: 17661**

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Hg Shake (MM/DD)	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
														Initial for required Clean Up Steps						
														MKF		MKF	MKF			
1	167468	PBLK-46	AP04865B	Water	5	E PCB W	SEPFUN	N/A	1000	NA	NA	NA	NA	04/24	NA	04/24	04/24	10	04/24	
2	167467	LCS-46	AP04865L	Water	5	E PCB W	SEPFUN	N/A	1000	NA	NA	NA	NA	04/24	NA	04/24	04/24	10	04/24	
3	167466	12040224-01	AP04865	Water	5	E PCB W	SEPFUN	N/A	940	NA	NA	NA	NA	04/24	NA	04/24	04/24	10	04/24	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Toluene	050254	NA		☑	☑	☐	☑	☐	☐	☐
Mercury	062210	NA		☑	☑	☐	☑	☐	☐	☐
Sodium Sulfate CURRENT	113272	NA		☑	☑	☐	☑	☐	☐	☐
1:1 MgSO4: Na2SO4 (water lab) current	101811MN	NA		☑	☑	☐	☑	☐	☐	☐
10% Florisil	120811F	NA		☑	☑	☐	☑	☐	☐	☐
A1242 @ 0.5ppm in Acetone	012712B32P009B	1000	0.5	☐	☑	☐	☐	☐	☐	☐
0.05ppm TCMX/ 0.5ppm DCBP in Aceton	021512B32P041A	1000	0.05/0.5	☑	☑	☐	☑	☐	☐	☐
Dichloromethane	DF782	NA		☑	☑	☐	☑	☐	☐	☐
Glass Wool	27211	NA		☑	☑	☐	☑	☐	☐	☐
Hexane (Dewar)	DF919	NA		☑	☑	☐	☑	☐	☐	☐
Sulfuric Acid (Water Lab)	K42027	NA		☑	☑	☐	☑	☐	☐	☐

3

Analyst Review: Megan Fung

Peer Review: Stephanie Scribner

Print Date: 4/30/2012
Lims Version : 5.0.6.5
_EXT - LOGBOOK_GC-SV; Rev 02; 1.18.2010; EXTRACTION

PCB SCREEN SHEET

LRF: 12040224 **Batch ID:17661**

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AP04865BRR1	GC23B-894-8	Water	**04/23/12**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-891-8	Water	**04/23/12**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
AP04865LRR1	GC23B-894-9	Water	**04/23/12**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-891-9	Water	**04/23/12**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
AP04865RR1	GC23B-894-10	Water	**04/23/12**	940	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23F-891-10	Water	**04/23/12**	940	10	NA	NA	1	NA	10x	Anthony Maiello

3

COMMENTS: _____

Page 1 of 1

Print Date: 4/30/2012
Lims Version : 5.0.6.5
_EXT-INJSHEET_NL; Rev 00; 09.29.2010; EXTRACTION

SURROGATE % RECOVERY SUMMARY

4

2E-1
PCB SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 12040224

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-46RR1	AP04865BRR1	GC23F-891-8	89.9	103					0
PBLK-46RR1	AP04865BRR1	GC23B-894-8			90.6	102			0
LCS-46RR1	AP04865LRR1	GC23F-891-9	89.1	102					0
LCS-46RR1	AP04865LRR1	GC23B-894-9			87.7	102			0
12040224-01RR1	AP04865RR1	GC23F-891-10	91.4	103					0
12040224-01RR1	AP04865RR1	GC23B-894-10			91.6	103			0

4

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(60.0-140)
SURR2 = DECACHLOROBIPHENYL	(60.0-140)

Form II-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

LABORATORY CONTROL SPIKE SUMMARY

5

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12040224

LCS Lab ID: LCS-46RR1

Blank Sample ID: PBLK-46RR1

LCS File ID: GC23F-891-9

Method Blank File ID: GC23F-891-8

LCS Inj Date: 04/25/2012 12:52:57

Method Blank Inj Date: 04/25/2012 12:20:20

LCS ID: AP04865LRR1

Method Blank ID: AP04865BRR1

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.500	0.452	90.4	70.0-130

Column to be used to flag recovery values

* Values outside of QC limits

[1]QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

5

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.5

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12040224

LCS Lab ID: LCS-46RR1

Blank Sample ID: PBLK-46RR1

LCS File ID: GC23B-894-9

Method Blank File ID: GC23B-894-8

LCS Inj Date: 04/25/2012 12:53:01

Method Blank Inj Date: 04/25/2012 12:20:24

LCS ID: AP04865LRR1

Method Blank ID: AP04865BRR1

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.500	0.465	93.0	70.0-130

Column to be used to flag recovery values

* Values outside of QC limits

[1]QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

5

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.5

METHOD BLANK SUMMARY

6

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	Blank Sample ID:	PBLK-46RR1
Matrix:	Water	Method Blank ID:	AP04865BRR1
Instrument ID:	GC23F	Lab File ID:	GC23F-891-8
Extraction Type:	Separatory Funnel	Date Extracted:	04/23/2012
GC Column (1):	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	04/25/2012
		Time Analyzed:	12:20:20

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-46(LAB CONTROL SPIKE)	AP04865LRR1	GC23F-891-9	04/25/2012 12:52:57
MW31	AP04865RR1	GC23F-891-10	04/25/2012 13:25:33

6

FORM IV-CLP-PCB(PACE)

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	Blank Sample ID:	PBLK-46RR1
Matrix:	Water	Method Blank ID:	AP04865BRR1
Instrument ID:	GC23B	Lab File ID:	GC23B-894-8
Extraction Type:	Separatory Funnel	Date Extracted:	04/23/2012
GC Column (1):	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	04/25/2012
		Time Analyzed:	12:20:24

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-46(LAB CONTROL SPIKE)	AP04865LRR1	GC23B-894-9	04/25/2012 12:53:01
MW31	AP04865RR1	GC23B-894-10	04/25/2012 13:25:37

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FORM IV-CLP-PCB(PACE)

Print date: 4/30/2012
Lims Version : 5.0.6.5

SAMPLE ANALYSIS DATA

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1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	LRF ID:	12040224-01RR1
Matrix:	Water	Client ID:	MW31
Sample wt(Dry)/vol:	940 mL	Lab Sample ID:	AP04865RR1
Percent Moisture:	100	Date Received:	04/20/2012
Extraction:	Separatory Funnel	Date Extracted:	04/23/2012
Conc. Extract Volume:	10000 uL	Date Analyzed:	04/25/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-891-10

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-894-10

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0532	U
1	11104-28-2	Aroclor 1221	0.0532	U
1	11141-16-5	Aroclor 1232	0.0532	U
1	53469-21-9	Aroclor 1242	0.0532	U
1	12672-29-6	Aroclor 1248	0.0532	U
1	11097-69-1	Aroclor 1254	0.0547	AF
1	11096-82-5	Aroclor 1260	0.0532	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	Client ID:	MW31
LRF Sample ID:	12040224-01RR1	Lab Sample ID:	AP04865RR1
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/25/2012 1:25:33 PM	Date Analyzed:	04/25/2012 1:25:37 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-891-10	Lab File ID 2:	GC23B-894-10
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.83	7.74	7.90			
		2	8.22	8.13	8.29			
		3	8.80	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.18	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.57	8.49	8.65			
		3	9.19	9.10	9.26			
		4	9.41	9.33	9.49			
		5	9.61	9.51	9.67			
Aroclor 1221	1	1	4.79	4.70	4.86			
		2	6.03	5.96	6.12			
		3	6.62	6.52	6.68			
		4	6.81	6.71	6.87			
		5	6.92	6.84	7.00			
	2	1	5.31	5.26	5.42			
		2	6.47	6.41	6.57			
		3	6.95	6.90	7.06			
		4	NA	7.10	7.26			
		5	7.29	7.22	7.38			
Aroclor 1232	1	1	6.92	6.84	7.00			
		2	8.22	8.13	8.29			
		3	8.80	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.18	9.12	9.28			
	2	1	7.29	7.22	7.38			
		2	8.57	8.49	8.65			
		3	9.19	9.10	9.26			
		4	9.41	9.33	9.49			
		5	9.61	9.51	9.67			
Aroclor 1242	1	1	7.83	7.74	7.90			
		2	8.22	8.12	8.28			
		3	8.80	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.18	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.57	8.49	8.65			
		3	9.19	9.10	9.26			
		4	9.41	9.33	9.49			
		5	9.61	9.51	9.67			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	Client ID:	MW31
LRF Sample ID:	12040224-01RR1	Lab Sample ID:	AP04865RR1
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/25/2012 1:25:33 PM	Date Analyzed:	04/25/2012 1:25:37 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-891-10	Lab File ID 2:	GC23B-894-10
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.77	9.70	9.86			
		2	10.43	10.37	10.53			
		3	11.07	11.02	11.18			
		4	11.29	11.19	11.35			
		5	11.70	11.59	11.75			
	2	1	10.10	10.03	10.19			
		2	10.84	10.77	10.93			
		3	11.45	11.38	11.54			
		4	11.67	11.58	11.74			
		5	12.13	12.06	12.22			
Aroclor 1254	1	1	11.98	11.91	12.07			
		2	12.64	12.57	12.73			
		3	12.92	12.86	13.02			
		4	14.43	14.35	14.51			
		5	15.23	15.17	15.33	0.0547		
	2	1	12.30	12.24	12.40			
		2	13.08	13.02	13.18			
		3	13.37	13.31	13.47			
		4	14.85	14.79	14.95			
		5	15.71	15.66	15.82	0.0533	2.59	
Aroclor 1260	1	1	15.23	15.17	15.33			
		2	17.49	17.42	17.58			
		3	18.44	18.34	18.50			
		4	19.21	19.14	19.30			
		5	21.46	21.40	21.56			
	2	1	15.71	15.65	15.81			
		2	17.93	17.93	18.09			
		3	19.14	19.11	19.27			
		4	19.85	19.76	19.92			
		5	22.52	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

ANALYTICAL SEQUENCE (GC23F)

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8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040224

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.20 DCBP RT: 26.11

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	011216A	GC23F-823-13	01/12/2012 17:50:19		
02	A1016 10 PPB	011216B	GC23F-823-14	01/12/2012 18:23:03		
03	A1016 20 PPB	011216C	GC23F-823-15	01/12/2012 18:55:40		
04	A1016 50 PPB	011216D	GC23F-823-16	01/12/2012 19:28:19		
05	A1016 100 PPB	011216E	GC23F-823-17	01/12/2012 20:00:57		
06	A1221 5 PPB	011221A	GC23F-823-18	01/12/2012 20:33:42		
07	A1221 10 PPB	011221B	GC23F-823-19	01/12/2012 21:06:23		
08	A1221 20 PPB	011221C	GC23F-823-20	01/12/2012 21:39:00		
09	A1221 50 PPB	011221D	GC23F-823-21	01/12/2012 22:11:42		
10	A1221 100 PPB	011221E	GC23F-823-22	01/12/2012 22:44:21		
11	A1232 5 PPB	011232A	GC23F-823-23	01/12/2012 23:17:05		
12	A1232 10 PPB	011232B	GC23F-823-24	01/12/2012 23:49:49		
13	A1232 20 PPB	011232C	GC23F-823-25	01/13/2012 00:22:27		
14	A1232 50 PPB	011232D	GC23F-823-26	01/13/2012 00:55:04		
15	A1232 100 PPB	011232E	GC23F-823-27	01/13/2012 01:27:49		
16	A1242 5 PPB	011242A	GC23F-823-28	01/13/2012 02:00:32		
17	A1242 10 PPB	011242B	GC23F-823-29	01/13/2012 02:33:15		
18	A1242 20 PPB	011242C	GC23F-823-30	01/13/2012 03:05:53		
19	A1242 50 PPB	011242D	GC23F-823-31	01/13/2012 03:38:36		
20	A1242 100 PPB	011242E	GC23F-823-32	01/13/2012 04:11:20		
21	A1248 5 PPB	011248A	GC23F-823-33	01/13/2012 04:43:59		
22	A1248 10 PPB	011248B	GC23F-823-34	01/13/2012 05:16:43		
23	A1248 20 PPB	011248C	GC23F-823-35	01/13/2012 05:49:27		
24	A1248 50 PPB	011248D	GC23F-823-36	01/13/2012 06:22:12		
25	A1248 100 PPB	011248E	GC23F-823-37	01/13/2012 06:54:56		
26	A1254 5 PPB	011254A	GC23F-823-38	01/13/2012 07:27:39	6.20	26.11
27	A1254 10 PPB	011254B	GC23F-823-39	01/13/2012 08:00:23	6.20	26.11
28	A1254 20 PPB	011254C	GC23F-823-40	01/13/2012 08:33:00	6.21	26.11
29	A1254 50 PPB	011254D	GC23F-823-41	01/13/2012 09:05:45	6.20	26.10
30	A1254 100 PPB	011254E	GC23F-823-42	01/13/2012 09:38:29	6.20	26.10
31	A1260 5 PPB	011260A	GC23F-823-43	01/13/2012 10:11:14		
32	A1260 10 PPB	011260B	GC23F-823-44	01/13/2012 10:43:58		
33	A1260 20 PPB	011260C	GC23F-823-45	01/13/2012 11:16:37		
34	A1260 50 PPB	011260D	GC23F-823-46	01/13/2012 11:49:14		
35	A1260 100 PPB	011260E	GC23F-823-47	01/13/2012 12:21:57		
36	A1262 5 PPB	011262A	GC23F-823-48	01/13/2012 12:54:39		
37	A1262 10 PPB	011262B	GC23F-823-49	01/13/2012 13:27:23		
38	A1262 20 PPB	011262C	GC23F-823-50	01/13/2012 14:00:01		

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040224

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.20 DCBP RT: 26.11

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 50 PPB	011262D	GC23F-823-51	01/13/2012 14:32:44		
40	A1262 100 PPB	011262E	GC23F-823-52	01/13/2012 15:05:28		
41	A1268 5 PPB	011268A	GC23F-823-53	01/13/2012 15:38:11		
42	A1268 10 PPB	011268B	GC23F-823-54	01/13/2012 16:10:56		
43	A1268 20 PPB	011268C	GC23F-823-55	01/13/2012 16:43:34		
44	A1268 50 PPB	011268D	GC23F-823-56	01/13/2012 17:16:12		
45	A1268 100 PPB	011268E	GC23F-823-57	01/13/2012 17:48:57		
46	A1016 50 PPB	CS160112A	GC23F-823-59	01/13/2012 18:54:13	6.20	26.09
47	A1221 50 PPB	CS210112A	GC23F-823-60	01/13/2012 19:26:51	6.20	26.09
48	A1232 50 PPB	CS320112A	GC23F-823-61	01/13/2012 19:59:29	6.20	26.08
49	A1242 50 PPB	CS420112A	GC23F-823-62	01/13/2012 20:32:12	6.20	26.08
50	A1248 50 PPB	CS480112B	GC23F-823-63	01/13/2012 21:04:55	6.20	26.08
51	A1254 50 PPB	CS540112D	GC23F-823-64	01/13/2012 21:37:32	6.20	26.09
52	A1260 50 PPB	CS600112A	GC23F-823-65	01/13/2012 22:10:16	6.20	26.08
53	A1262 50 PPB	CS620112A	GC23F-823-66	01/13/2012 22:42:53	6.20	26.08
54	A1268 50 PPB	CS680112A	GC23F-823-67	01/13/2012 23:15:30	6.20	26.09
55	A1248 50 PPB	CS480425A	GC23F-891-3	04/25/2012 09:01:40	6.19	26.04
56	ZZZZZ	ZZZZZ	GC23F-891-5	04/25/2012 10:42:30	6.19	26.04
57	ZZZZZ	ZZZZZ	GC23F-891-6	04/25/2012 11:15:07	6.20	26.04
58	ZZZZZ	ZZZZZ	GC23F-891-7	04/25/2012 11:47:44	6.20	26.03
59	PBLK-46(METHOD BLANK)	AP04865BRR1	GC23F-891-8	04/25/2012 12:20:20	6.20	26.04
60	LCS-46(LAB CONTROL SPIKE)	AP04865LRR1	GC23F-891-9	04/25/2012 12:52:57	6.19	26.04
61	MW31	AP04865RR1	GC23F-891-10	04/25/2012 13:25:33	6.20	26.04
62	A1254 50 PPB	CS540425A	GC23F-891-11	04/25/2012 13:58:10	6.19	26.03

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Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC23F)

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040224
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC23F-823-13	011216A	5.00	224.683		
	GC23F-823-14	011216B	10.0	211.438		
	GC23F-823-15	011216C	20.0	195.178		
	GC23F-823-16	011216D	50.0	189.231		
	GC23F-823-17	011216E	100	184.848	201.076	8.3
Aroclor 1221	GC23F-823-18	011221A	5.00	49.334		
	GC23F-823-19	011221B	10.0	48.795		
	GC23F-823-20	011221C	20.0	49.956		
	GC23F-823-21	011221D	50.0	47.885		
	GC23F-823-22	011221E	100	45.666	48.327	3.5
Aroclor 1232	GC23F-823-23	011232A	5.00	104.574		
	GC23F-823-24	011232B	10.0	93.632		
	GC23F-823-25	011232C	20.0	96.723		
	GC23F-823-26	011232D	50.0	93.741		
	GC23F-823-27	011232E	100	91.258	95.986	5.4
Aroclor 1242	GC23F-823-28	011242A	5.00	184.540		
	GC23F-823-29	011242B	10.0	183.280		
	GC23F-823-30	011242C	20.0	180.571		
	GC23F-823-31	011242D	50.0	167.575		
	GC23F-823-32	011242E	100	174.989	178.191	3.9
Aroclor 1248	GC23F-823-33	011248A	5.00	175.197		
	GC23F-823-34	011248B	10.0	210.875		
	GC23F-823-35	011248C	20.0	178.546		
	GC23F-823-36	011248D	50.0	174.921		
	GC23F-823-37	011248E	100	175.835	183.075	8.5
Aroclor 1254	GC23F-823-38	011254A	5.00	331.728		
	GC23F-823-39	011254B	10.0	329.174		
	GC23F-823-40	011254C	20.0	311.645		
	GC23F-823-41	011254D	50.0	304.894		
	GC23F-823-42	011254E	100	315.787	318.645	3.6
Aroclor 1260	GC23F-823-43	011260A	5.00	486.730		
	GC23F-823-44	011260B	10.0	424.985		
	GC23F-823-45	011260C	20.0	423.665		
	GC23F-823-46	011260D	50.0	427.423		
	GC23F-823-47	011260E	100	416.368	435.834	6.6
Aroclor 1262	GC23F-823-48	011262A	5.00	582.851		
	GC23F-823-49	011262B	10.0	483.125		
	GC23F-823-50	011262C	20.0	483.492		
	GC23F-823-51	011262D	50.0	455.903		
	GC23F-823-52	011262E	100	465.014	494.077	10

FORM VI-CLP-PCB(PACE)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040224
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC23F-823-53	011268A	5.00	960.107		
	GC23F-823-54	011268B	10.0	934.519		
	GC23F-823-55	011268C	20.0	800.826		
	GC23F-823-56	011268D	50.0	786.498		
	GC23F-823-57	011268E	100	877.040	871.798	8.9
TCMX	GC23F-823-38	011254A	1.00	1097.318		
	GC23F-823-39	011254B	2.50	1118.525		
	GC23F-823-40	011254C	4.00	1179.526		
	GC23F-823-41	011254D	5.00	1137.682		
	GC23F-823-42	011254E	8.00	1115.034	1129.620	2.8
DCBP	GC23F-823-38	011254A	10.0	1139.073		
	GC23F-823-39	011254B	25.0	1115.208		
	GC23F-823-40	011254C	40.0	1170.411		
	GC23F-823-41	011254D	50.0	1127.514		
	GC23F-823-42	011254E	80.0	1097.881	1130.020	2.4

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

9

INITIAL/CONTINUING CALIBRATION DATA (GC23F)

10

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12040224

ELAP ID No: 11078

Instrument ID: GC23F

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC23F-823-59	CS160112A	ICV	52.1	50	4.26		01/13/2012 18:54:13
Aroclor 1221	GC23F-823-60	CS210112A	ICV	56.1	50	12.2		01/13/2012 19:26:51
Aroclor 1232	GC23F-823-61	CS320112A	ICV	49.0	50	-1.96		01/13/2012 19:59:29
Aroclor 1242	GC23F-823-62	CS420112A	ICV	45.3	50	-9.47		01/13/2012 20:32:12
Aroclor 1248	GC23F-823-63	CS480112B	ICV	51.2	50	2.43		01/13/2012 21:04:55
Aroclor 1254	GC23F-823-64	CS540112D	ICV	49.7	50	-0.678		01/13/2012 21:37:32
Aroclor 1260	GC23F-823-65	CS600112A	ICV	50.0	50	-0.0159		01/13/2012 22:10:16
Aroclor 1262	GC23F-823-66	CS620112A	ICV	48.2	50	-3.61		01/13/2012 22:42:53
Aroclor 1268	GC23F-823-67	CS680112A	ICV	47.1	50	-5.89		01/13/2012 23:15:30
Aroclor 1248	GC23F-891-3	CS480425A	CCV	50.5	50	1.06		04/25/2012 09:01:40
Aroclor 1254	GC23F-891-11	CS540425A	CCV	48.7	50	-2.60		04/25/2012 13:58:10

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

10

FORM VII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040224
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23F-823-59	CS160112A	ICV	1	7.82	7.74	7.90
		CS160112A	ICV	2	8.21	8.13	8.29
		CS160112A	ICV	3	8.84	8.76	8.92
		CS160112A	ICV	4	9.06	8.98	9.14
		CS160112A	ICV	5	9.20	9.12	9.28
Aroclor 1221	GC23F-823-60	CS210112A	ICV	1	4.78	4.70	4.86
		CS210112A	ICV	2	6.04	5.96	6.12
		CS210112A	ICV	3	6.60	6.52	6.68
		CS210112A	ICV	4	6.79	6.71	6.87
		CS210112A	ICV	5	6.92	6.84	7.00
Aroclor 1232	GC23F-823-61	CS320112A	ICV	1	6.92	6.84	7.00
		CS320112A	ICV	2	8.21	8.13	8.29
		CS320112A	ICV	3	8.85	8.77	8.93
		CS320112A	ICV	4	9.06	8.98	9.14
		CS320112A	ICV	5	9.20	9.12	9.28
Aroclor 1242	GC23F-823-62	CS420112A	ICV	1	7.82	7.74	7.90
		CS420112A	ICV	2	8.20	8.12	8.28
		CS420112A	ICV	3	8.84	8.76	8.92
		CS420112A	ICV	4	9.06	8.98	9.14
		CS420112A	ICV	5	9.20	9.12	9.28
Aroclor 1248	GC23F-823-63	CS480112B	ICV	1	9.78	9.70	9.86
		CS480112B	ICV	2	10.45	10.37	10.53
		CS480112B	ICV	3	11.10	11.02	11.18
		CS480112B	ICV	4	11.27	11.19	11.35
		CS480112B	ICV	5	11.67	11.59	11.75
Aroclor 1254	GC23F-823-64	CS540112D	ICV	1	11.99	11.91	12.07
		CS540112D	ICV	2	12.65	12.57	12.73
		CS540112D	ICV	3	12.94	12.86	13.02
		CS540112D	ICV	4	14.43	14.35	14.51
		CS540112D	ICV	5	15.25	15.17	15.33
Aroclor 1260	GC23F-823-65	CS600112A	ICV	1	15.25	15.17	15.33
		CS600112A	ICV	2	17.50	17.42	17.58
		CS600112A	ICV	3	18.42	18.34	18.50
		CS600112A	ICV	4	19.22	19.14	19.30
		CS600112A	ICV	5	21.48	21.40	21.56
Aroclor 1262	GC23F-823-66	CS620112A	ICV	1	15.25	15.17	15.33
		CS620112A	ICV	2	17.51	17.43	17.59
		CS620112A	ICV	3	18.43	18.35	18.51

FORM VII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040224
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620112A	ICV	4	19.22	19.14	19.30
		CS620112A	ICV	5	21.48	21.40	21.56
Aroclor 1268	GC23F-823-67	CS680112A	ICV	1	19.22	19.14	19.30
		CS680112A	ICV	2	21.49	21.41	21.57
		CS680112A	ICV	3	18.99	18.91	19.07
		CS680112A	ICV	4	20.56	20.48	20.64
		CS680112A	ICV	5	20.94	20.86	21.02

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

10

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040224
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1248	GC23F-891-3	CS480425A	CCV	1	9.77	9.70	9.86
		CS480425A	CCV	2	10.44	10.37	10.53
		CS480425A	CCV	3	11.09	11.02	11.18
		CS480425A	CCV	4	11.25	11.19	11.35
		CS480425A	CCV	5	11.66	11.59	11.75
Aroclor 1254	GC23F-891-11	CS540425A	CCV	1	11.97	11.91	12.07
		CS540425A	CCV	2	12.64	12.57	12.73
		CS540425A	CCV	3	12.92	12.86	13.02
		CS540425A	CCV	4	14.41	14.35	14.51
		CS540425A	CCV	5	15.23	15.17	15.33

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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ANALYTICAL SEQUENCE (GC23B)

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040224

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.54 DCBP RT: 27.48

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	011216A	GC23B-823-13	01/12/2012 17:50:23		
02	A1016 10 PPB	011216B	GC23B-823-14	01/12/2012 18:23:07		
03	A1016 20 PPB	011216C	GC23B-823-15	01/12/2012 18:55:45		
04	A1016 50 PPB	011216D	GC23B-823-16	01/12/2012 19:28:23		
05	A1016 100 PPB	011216E	GC23B-823-17	01/12/2012 20:01:01		
06	A1221 5 PPB	011221A	GC23B-823-18	01/12/2012 20:33:45		
07	A1221 10 PPB	011221B	GC23B-823-19	01/12/2012 21:06:27		
08	A1221 20 PPB	011221C	GC23B-823-20	01/12/2012 21:39:04		
09	A1221 50 PPB	011221D	GC23B-823-21	01/12/2012 22:11:46		
10	A1221 100 PPB	011221E	GC23B-823-22	01/12/2012 22:44:25		
11	A1232 5 PPB	011232A	GC23B-823-23	01/12/2012 23:17:09		
12	A1232 10 PPB	011232B	GC23B-823-24	01/12/2012 23:49:53		
13	A1232 20 PPB	011232C	GC23B-823-25	01/13/2012 00:22:31		
14	A1232 50 PPB	011232D	GC23B-823-26	01/13/2012 00:55:08		
15	A1232 100 PPB	011232E	GC23B-823-27	01/13/2012 01:27:53		
16	A1242 5 PPB	011242A	GC23B-823-28	01/13/2012 02:00:36		
17	A1242 10 PPB	011242B	GC23B-823-29	01/13/2012 02:33:19		
18	A1242 20 PPB	011242C	GC23B-823-30	01/13/2012 03:05:57		
19	A1242 50 PPB	011242D	GC23B-823-31	01/13/2012 03:38:40		
20	A1242 100 PPB	011242E	GC23B-823-32	01/13/2012 04:11:24		
21	A1248 5 PPB	011248A	GC23B-823-33	01/13/2012 04:44:03		
22	A1248 10 PPB	011248B	GC23B-823-34	01/13/2012 05:16:47		
23	A1248 20 PPB	011248C	GC23B-823-35	01/13/2012 05:49:31		
24	A1248 50 PPB	011248D	GC23B-823-36	01/13/2012 06:22:16		
25	A1248 100 PPB	011248E	GC23B-823-37	01/13/2012 06:55:00		
26	A1254 5 PPB	011254A	GC23B-823-38	01/13/2012 07:27:43	6.54	27.49
27	A1254 10 PPB	011254B	GC23B-823-39	01/13/2012 08:00:27	6.54	27.48
28	A1254 20 PPB	011254C	GC23B-823-40	01/13/2012 08:33:05	6.54	27.48
29	A1254 50 PPB	011254D	GC23B-823-41	01/13/2012 09:05:49	6.54	27.47
30	A1254 100 PPB	011254E	GC23B-823-42	01/13/2012 09:38:33	6.54	27.47
31	A1260 5 PPB	011260A	GC23B-823-43	01/13/2012 10:11:18		
32	A1260 10 PPB	011260B	GC23B-823-44	01/13/2012 10:44:02		
33	A1260 20 PPB	011260C	GC23B-823-45	01/13/2012 11:16:41		
34	A1260 50 PPB	011260D	GC23B-823-46	01/13/2012 11:49:18		
35	A1260 100 PPB	011260E	GC23B-823-47	01/13/2012 12:22:01		
36	A1262 5 PPB	011262A	GC23B-823-48	01/13/2012 12:54:43		
37	A1262 10 PPB	011262B	GC23B-823-49	01/13/2012 13:27:27		
38	A1262 20 PPB	011262C	GC23B-823-50	01/13/2012 14:00:05		

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040224

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 01/12/12,01/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.54 DCBP RT: 27.48

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 50 PPB	011262D	GC23B-823-51	01/13/2012 14:32:48		
40	A1262 100 PPB	011262E	GC23B-823-52	01/13/2012 15:05:32		
41	A1268 5 PPB	011268A	GC23B-823-53	01/13/2012 15:38:15		
42	A1268 10 PPB	011268B	GC23B-823-54	01/13/2012 16:11:00		
43	A1268 20 PPB	011268C	GC23B-823-55	01/13/2012 16:43:38		
44	A1268 50 PPB	011268D	GC23B-823-56	01/13/2012 17:16:16		
45	A1268 100 PPB	011268E	GC23B-823-57	01/13/2012 17:49:01		
46	A1016 50 PPB	CS160112A	GC23B-823-59	01/13/2012 18:54:17	6.54	27.45
47	A1221 50 PPB	CS210112A	GC23B-823-60	01/13/2012 19:26:55	6.54	27.46
48	A1232 50 PPB	CS320112A	GC23B-823-61	01/13/2012 19:59:33	6.54	27.46
49	A1242 50 PPB	CS420112A	GC23B-823-62	01/13/2012 20:32:16	6.54	27.45
50	A1248 50 PPB	CS480112B	GC23B-823-63	01/13/2012 21:04:59	6.54	27.46
51	A1254 50 PPB	CS540112D	GC23B-823-64	01/13/2012 21:37:36	6.54	27.46
52	A1260 50 PPB	CS600112A	GC23B-823-65	01/13/2012 22:10:20	6.53	27.45
53	A1262 50 PPB	CS620112A	GC23B-823-66	01/13/2012 22:42:57	6.54	27.46
54	A1268 50 PPB	CS680112A	GC23B-823-67	01/13/2012 23:15:34	6.54	27.46
55	A1248 50 PPB	CS480425A	GC23B-894-3	04/25/2012 09:01:44	6.53	27.39
56	PBLK-46(METHOD BLANK)	AP04865BRR1	GC23B-894-8	04/25/2012 12:20:24	6.53	27.40
57	LCS-46(LAB CONTROL SPIKE)	AP04865LRR1	GC23B-894-9	04/25/2012 12:53:01	6.53	27.40
58	MW31	AP04865RR1	GC23B-894-10	04/25/2012 13:25:37	6.53	27.39
59	A1254 50 PPB	CS540425A	GC23B-894-11	04/25/2012 13:58:14	6.53	27.39

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

INITIAL CALIBRATION DATA (GC23B)

12

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040224
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC23B-823-13	011216A	5.00	264.376		
	GC23B-823-14	011216B	10.0	234.119		
	GC23B-823-15	011216C	20.0	229.051		
	GC23B-823-16	011216D	50.0	223.163		
	GC23B-823-17	011216E	100	216.340	233.410	7.9
Aroclor 1221	GC23B-823-18	011221A	5.00	58.529		
	GC23B-823-19	011221B	10.0	59.862		
	GC23B-823-20	011221C	20.0	59.280		
	GC23B-823-21	011221D	50.0	58.002		
	GC23B-823-22	011221E	100	55.813	58.297	2.7
Aroclor 1232	GC23B-823-23	011232A	5.00	108.994		
	GC23B-823-24	011232B	10.0	124.290		
	GC23B-823-25	011232C	20.0	116.106		
	GC23B-823-26	011232D	50.0	112.669		
	GC23B-823-27	011232E	100	109.289	114.270	5.5
Aroclor 1242	GC23B-823-28	011242A	5.00	196.356		
	GC23B-823-29	011242B	10.0	220.385		
	GC23B-823-30	011242C	20.0	208.880		
	GC23B-823-31	011242D	50.0	199.225		
	GC23B-823-32	011242E	100	207.769	206.523	4.6
Aroclor 1248	GC23B-823-33	011248A	5.00	237.923		
	GC23B-823-34	011248B	10.0	234.148		
	GC23B-823-35	011248C	20.0	214.732		
	GC23B-823-36	011248D	50.0	213.418		
	GC23B-823-37	011248E	100	206.478	221.340	6.3
Aroclor 1254	GC23B-823-38	011254A	5.00	387.329		
	GC23B-823-39	011254B	10.0	376.842		
	GC23B-823-40	011254C	20.0	360.643		
	GC23B-823-41	011254D	50.0	354.772		
	GC23B-823-42	011254E	100	376.848	371.287	3.6
Aroclor 1260	GC23B-823-43	011260A	5.00	570.701		
	GC23B-823-44	011260B	10.0	517.121		
	GC23B-823-45	011260C	20.0	508.429		
	GC23B-823-46	011260D	50.0	513.939		
	GC23B-823-47	011260E	100	502.401	522.518	5.3
Aroclor 1262	GC23B-823-48	011262A	5.00	667.306		
	GC23B-823-49	011262B	10.0	564.776		
	GC23B-823-50	011262C	20.0	585.547		
	GC23B-823-51	011262D	50.0	544.099		
	GC23B-823-52	011262E	100	555.450	583.436	8.4

FORM VI-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040224
ELAP ID No: 11078
Date(s) Analyzed: 01/12/12,01/13/12
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC23B-823-53	011268A	5.00	1056.677		
	GC23B-823-54	011268B	10.0	1107.159		
	GC23B-823-55	011268C	20.0	950.117		
	GC23B-823-56	011268D	50.0	940.271		
	GC23B-823-57	011268E	100	1040.211	1018.890	7.0
TCMX	GC23B-823-38	011254A	1.00	1332.518		
	GC23B-823-39	011254B	2.50	1334.917		
	GC23B-823-40	011254C	4.00	1416.181		
	GC23B-823-41	011254D	5.00	1353.452		
	GC23B-823-42	011254E	8.00	1369.876	1361.390	2.5
DCBP	GC23B-823-38	011254A	10.0	1329.852		
	GC23B-823-39	011254B	25.0	1331.710		
	GC23B-823-40	011254C	40.0	1395.351		
	GC23B-823-41	011254D	50.0	1328.473		
	GC23B-823-42	011254E	80.0	1335.410	1344.160	2.1

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

12

INITIAL/CONTINUING CALIBRATION DATA (GC23B)

13

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12040224

ELAP ID No: 11078

Instrument ID: GC23B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC23B-823-59	CS160112A	ICV	56.0	50	12.0		01/13/2012 18:54:17
Aroclor 1221	GC23B-823-60	CS210112A	ICV	56.4	50	12.8		01/13/2012 19:26:55
Aroclor 1232	GC23B-823-61	CS320112A	ICV	52.1	50	4.10		01/13/2012 19:59:33
Aroclor 1242	GC23B-823-62	CS420112A	ICV	48.4	50	-3.28		01/13/2012 20:32:16
Aroclor 1248	GC23B-823-63	CS480112B	ICV	55.3	50	10.5		01/13/2012 21:04:59
Aroclor 1254	GC23B-823-64	CS540112D	ICV	51.6	50	3.29		01/13/2012 21:37:36
Aroclor 1260	GC23B-823-65	CS600112A	ICV	52.9	50	5.82		01/13/2012 22:10:20
Aroclor 1262	GC23B-823-66	CS620112A	ICV	50.8	50	1.64		01/13/2012 22:42:57
Aroclor 1268	GC23B-823-67	CS680112A	ICV	48.1	50	-3.79		01/13/2012 23:15:34
Aroclor 1248	GC23B-894-3	CS480425A	CCV	51.1	50	2.24		04/25/2012 09:01:44
Aroclor 1254	GC23B-894-11	CS540425A	CCV	50.3	50	0.574		04/25/2012 13:58:14

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

13

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040224
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23B-823-59	CS160112A	ICV	1	8.16	8.08	8.24
		CS160112A	ICV	2	8.57	8.49	8.65
		CS160112A	ICV	3	9.18	9.10	9.26
		CS160112A	ICV	4	9.41	9.33	9.49
		CS160112A	ICV	5	9.59	9.51	9.67
Aroclor 1221	GC23B-823-60	CS210112A	ICV	1	5.34	5.26	5.42
		CS210112A	ICV	2	6.49	6.41	6.57
		CS210112A	ICV	3	6.98	6.90	7.06
		CS210112A	ICV	4	7.18	7.10	7.26
		CS210112A	ICV	5	7.30	7.22	7.38
Aroclor 1232	GC23B-823-61	CS320112A	ICV	1	7.30	7.22	7.38
		CS320112A	ICV	2	8.57	8.49	8.65
		CS320112A	ICV	3	9.18	9.10	9.26
		CS320112A	ICV	4	9.41	9.33	9.49
		CS320112A	ICV	5	9.59	9.51	9.67
Aroclor 1242	GC23B-823-62	CS420112A	ICV	1	8.16	8.08	8.24
		CS420112A	ICV	2	8.57	8.49	8.65
		CS420112A	ICV	3	9.18	9.10	9.26
		CS420112A	ICV	4	9.41	9.33	9.49
		CS420112A	ICV	5	9.59	9.51	9.67
Aroclor 1248	GC23B-823-63	CS480112B	ICV	1	10.11	10.03	10.19
		CS480112B	ICV	2	10.85	10.77	10.93
		CS480112B	ICV	3	11.46	11.38	11.54
		CS480112B	ICV	4	11.66	11.58	11.74
		CS480112B	ICV	5	12.14	12.06	12.22
Aroclor 1254	GC23B-823-64	CS540112D	ICV	1	12.32	12.24	12.40
		CS540112D	ICV	2	13.10	13.02	13.18
		CS540112D	ICV	3	13.39	13.31	13.47
		CS540112D	ICV	4	14.87	14.79	14.95
		CS540112D	ICV	5	15.74	15.66	15.82
Aroclor 1260	GC23B-823-65	CS600112A	ICV	1	15.73	15.65	15.81
		CS600112A	ICV	2	18.01	17.93	18.09
		CS600112A	ICV	3	19.19	19.11	19.27
		CS600112A	ICV	4	19.84	19.76	19.92
		CS600112A	ICV	5	22.48	22.40	22.56
Aroclor 1262	GC23B-823-66	CS620112A	ICV	1	15.73	15.65	15.81
		CS620112A	ICV	2	18.01	17.93	18.09
		CS620112A	ICV	3	19.19	19.11	19.27

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FORM VII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040224
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620112A	ICV	4	19.84	19.76	19.92
		CS620112A	ICV	5	22.48	22.40	22.56
Aroclor 1268	GC23B-823-67	CS680112A	ICV	1	19.83	19.75	19.91
		CS680112A	ICV	2	22.49	22.41	22.57
		CS680112A	ICV	3	19.60	19.52	19.68
		CS680112A	ICV	4	21.27	21.19	21.35
		CS680112A	ICV	5	21.71	21.63	21.79

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040224
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1248	GC23B-894-3	CS480425A	CCV	1	10.10	10.03	10.19
		CS480425A	CCV	2	10.83	10.77	10.93
		CS480425A	CCV	3	11.44	11.38	11.54
		CS480425A	CCV	4	11.65	11.58	11.74
		CS480425A	CCV	5	12.12	12.06	12.22
Aroclor 1254	GC23B-894-11	CS540425A	CCV	1	12.30	12.24	12.40
		CS540425A	CCV	2	13.07	13.02	13.18
		CS540425A	CCV	3	13.37	13.31	13.47
		CS540425A	CCV	4	14.84	14.79	14.95
		CS540425A	CCV	5	15.71	15.66	15.82

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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QC SAMPLE RAW DATA

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1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	LRF ID:	PBLK-46RR1
Matrix:	Water	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP04865BRR1
Percent Moisture:	100	Lab File ID:	GC23F-891-8
Extraction:	Separatory Funnel	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/25/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	LRF ID:	PBLK-46RR1
Matrix:	Water	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP04865BRR1
Percent Moisture:	100	Lab File ID:	GC23B-894-8
Extraction:	Separatory Funnel	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/25/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	LRF ID:	LCS-46RR1
Matrix:	Water	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP04865LRR1
Percent Moisture:	100	Lab File ID:	GC23F-891-9
Extraction:	Separatory Funnel	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/25/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.452	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	LRF ID:	LCS-46RR1
Matrix:	Water	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AP04865LRR1
Percent Moisture:	100	Lab File ID:	GC23B-894-9
Extraction:	Separatory Funnel	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/25/2012
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.465	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	Client ID:	LCS-46(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-46RR1	Lab Sample ID:	AP04865LRR1
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/25/2012 12:52:57 PM	Date Analyzed:	04/25/2012 12:53:01 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-891-9	Lab File ID 2:	GC23B-894-9
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.74	7.90			
		2	8.20	8.13	8.29			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.71	6.87			
		5	NA	6.84	7.00			
	2	1	NA	5.26	5.42			
		2	NA	6.41	6.57			
		3	NA	6.90	7.06			
		4	NA	7.10	7.26			
		5	NA	7.22	7.38			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	8.20	8.13	8.29			
		3	8.83	8.77	8.93			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28			
	2	1	NA	7.22	7.38			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67			
Aroclor 1242	1	1	7.81	7.74	7.90			
		2	8.20	8.12	8.28			
		3	8.83	8.76	8.92			
		4	9.05	8.98	9.14			
		5	9.19	9.12	9.28	0.452		
	2	1	8.15	8.08	8.24			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.33	9.49			
		5	9.58	9.51	9.67	0.465	2.84	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040224
ELAP ID No:	11078	Client ID:	LCS-46(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-46RR1	Lab Sample ID:	AP04865LRR1
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	04/25/2012 12:52:57 PM	Date Analyzed:	04/25/2012 12:53:01 PM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-891-9	Lab File ID 2:	GC23B-894-9
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.70	9.86			
		2	NA	10.37	10.53			
		3	NA	11.02	11.18			
		4	NA	11.19	11.35			
		5	NA	11.59	11.75			
	2	1	NA	10.03	10.19			
		2	NA	10.77	10.93			
		3	NA	11.38	11.54			
		4	NA	11.58	11.74			
		5	NA	12.06	12.22			
Aroclor 1254	1	1	NA	11.91	12.07			
		2	NA	12.57	12.73			
		3	NA	12.86	13.02			
		4	NA	14.35	14.51			
		5	NA	15.17	15.33			
	2	1	NA	12.24	12.40			
		2	NA	13.02	13.18			
		3	NA	13.31	13.47			
		4	NA	14.79	14.95			
		5	NA	15.66	15.82			
Aroclor 1260	1	1	NA	15.17	15.33			
		2	NA	17.42	17.58			
		3	NA	18.34	18.50			
		4	NA	19.14	19.30			
		5	NA	21.40	21.56			
	2	1	NA	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.11	19.27			
		4	NA	19.76	19.92			
		5	NA	22.40	22.56			

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Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

ANALYTICAL REPORT

Lab Number:	L1203309
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	PSWS
Project Number:	115058
Report Date:	03/05/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1203309-01	EAST SEEP	NBHS MECH. RM.	02/27/12 17:20
L1203309-02	WEST SEEP	NBHS MECH. RM.	02/27/12 17:30
L1203309-03	MW-5D	NBHS MECH. RM.	02/27/12 18:05
L1203309-04	MW-28	NBHS MECH. RM.	02/27/12 18:30
L1203309-05	MW-5	NBHS MECH. RM.	02/27/12 18:40
L1203309-06	MW-27R	NBHS MECH. RM.	02/27/12 19:30
L1203309-07	MW-27D	NBHS MECH. RM.	02/27/12 20:30
L1203309-08	MW-32	NBHS MECH. RM.	02/27/12 20:35
L1203309-09	DUP-1	NBHS MECH. RM.	02/27/12 00:00
L1203309-10	TRIP BLANK	NBHS MECH. RM.	02/27/12 00:00

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: PSWS **Lab Number:** L1203309
Project Number: 115058 **Report Date:** 03/05/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Volatile Organics

L1203309-01 has elevated detection limits due to the dilution required by the sample matrix. (foamy)

L1203309-04 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L1203309-06, -07, and -09 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

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Case Narrative (continued)

In reference to question H:
The WG521107-2 LCSD recovery, associated with L1203309-01 through -04, -08, -09, and -10, is below the acceptance criteria for 2-Hexanone (69%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.
The WG521107-4/-5 LCS/LCSD recoveries, associated with L1203309-04, -05, and -07, are below the individual acceptance criteria for Carbon tetrachloride (LCSD at 67%) and Tetrahydrofuran (68%/67%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.
The WG521107-4/-5 LCS/LCSD recoveries, associated with L1203309-04, -05, and -07, are below the acceptance criteria for 4-Methyl-2-pentanone (67%/66%) and 2-Hexanone (68%/66%); however, they have been identified as "difficult" analytes and are within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.
The WG521107-4/-5 LCS/LCSD RPD, associated with L1203309-04, -05, and -07, is above the acceptance criteria for Dichlorodifluoromethane (25%).
The WG521347-1/-2 LCS/LCSD recoveries, associated with L1203309-06, are below the individual acceptance criteria for Carbon tetrachloride (LCSD at 67%) and Tetrahydrofuran (68%/67%), but within the overall method allowances. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for these compounds.
The WG521347-1/-2 LCS/LCSD recoveries, associated with L1203309-06, are below the acceptance criteria for 4-Methyl-2-pentanone (67%/66%) and 2-Hexanone (68%/66%); however, they have been identified as "difficult" analytes and are within the 40-160% acceptance limits. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for these compounds.
The WG521347-4 MS recovery, performed on L1203309-06, was below the acceptance criteria for Carbon tetrachloride (69%). The results of the sample utilized for the MS/MSD are considered to have a potentially low bias for this compound.
The WG521347-4/-5 MS/MSD recoveries, performed on L1203309-06, are below the acceptance criteria for

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Case Narrative (continued)

Vinyl chloride (61%/57%), Trichloroethene (53%/51%), and cis-1,2-Dichloroethene (51%/47%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the sample utilized for the MS/MSD.

The initial calibration, associated with L1203309-01 through -10, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-Dioxane (0.00153), as well as the average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Dibromochloromethane, Bromoform, and Acetone.

The continuing calibration standards, associated with L1203309-01 through -10, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 03/05/12

ORGANICS

VOLATILES

Project Name: PSWS **Lab Number:** L1203309

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SAMPLE RESULTS

Lab ID:	L1203309-01	D	Date Collected:	02/27/12 17:20
Client ID:	EAST SEEP		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	03/01/12 13:48			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	20	--	10
1,1-Dichloroethane	ND		ug/l	10	--	10
Chloroform	ND		ug/l	10	--	10
Carbon tetrachloride	ND		ug/l	10	--	10
1,2-Dichloropropane	ND		ug/l	10	--	10
Dibromochloromethane	ND		ug/l	10	--	10
1,1,2-Trichloroethane	ND		ug/l	10	--	10
Tetrachloroethene	ND		ug/l	10	--	10
Chlorobenzene	ND		ug/l	10	--	10
Trichlorofluoromethane	ND		ug/l	20	--	10
1,2-Dichloroethane	ND		ug/l	10	--	10
1,1,1-Trichloroethane	ND		ug/l	10	--	10
Bromodichloromethane	ND		ug/l	10	--	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	--	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	--	10
1,1-Dichloropropene	ND		ug/l	20	--	10
Bromoform	ND		ug/l	20	--	10
1,1,2,2-Tetrachloroethane	ND		ug/l	10	--	10
Benzene	ND		ug/l	5.0	--	10
Toluene	ND		ug/l	10	--	10
Ethylbenzene	ND		ug/l	10	--	10
Chloromethane	ND		ug/l	20	--	10
Bromomethane	ND		ug/l	20	--	10
Vinyl chloride	ND		ug/l	10	--	10
Chloroethane	ND		ug/l	20	--	10
1,1-Dichloroethene	ND		ug/l	10	--	10
trans-1,2-Dichloroethene	ND		ug/l	10	--	10
Trichloroethene	ND		ug/l	10	--	10
1,2-Dichlorobenzene	ND		ug/l	10	--	10
1,3-Dichlorobenzene	ND		ug/l	10	--	10
1,4-Dichlorobenzene	ND		ug/l	10	--	10

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SAMPLE RESULTS

Lab ID: L1203309-01 D Date Collected: 02/27/12 17:20

Client ID: EAST SEEP Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	20	--	10
p/m-Xylene	ND		ug/l	20	--	10
o-Xylene	ND		ug/l	10	--	10
cis-1,2-Dichloroethene	ND		ug/l	10	--	10
Dibromomethane	ND		ug/l	20	--	10
1,2,3-Trichloropropane	ND		ug/l	20	--	10
Styrene	ND		ug/l	10	--	10
Dichlorodifluoromethane	ND		ug/l	20	--	10
Acetone	ND		ug/l	50	--	10
Carbon disulfide	ND		ug/l	20	--	10
2-Butanone	ND		ug/l	50	--	10
4-Methyl-2-pentanone	ND		ug/l	50	--	10
2-Hexanone	ND		ug/l	50	--	10
Bromochloromethane	ND		ug/l	20	--	10
Tetrahydrofuran	ND		ug/l	50	--	10
2,2-Dichloropropane	ND		ug/l	20	--	10
1,2-Dibromoethane	ND		ug/l	20	--	10
1,3-Dichloropropane	ND		ug/l	20	--	10
1,1,1,2-Tetrachloroethane	ND		ug/l	10	--	10
Bromobenzene	ND		ug/l	20	--	10
n-Butylbenzene	ND		ug/l	20	--	10
sec-Butylbenzene	ND		ug/l	20	--	10
tert-Butylbenzene	ND		ug/l	20	--	10
o-Chlorotoluene	ND		ug/l	20	--	10
p-Chlorotoluene	ND		ug/l	20	--	10
1,2-Dibromo-3-chloropropane	ND		ug/l	20	--	10
Hexachlorobutadiene	ND		ug/l	6.0	--	10
Isopropylbenzene	ND		ug/l	20	--	10
p-Isopropyltoluene	ND		ug/l	20	--	10
Naphthalene	ND		ug/l	20	--	10
n-Propylbenzene	ND		ug/l	20	--	10
1,2,3-Trichlorobenzene	ND		ug/l	20	--	10
1,2,4-Trichlorobenzene	ND		ug/l	20	--	10
1,3,5-Trimethylbenzene	ND		ug/l	20	--	10
1,2,4-Trimethylbenzene	ND		ug/l	20	--	10
Ethyl ether	ND		ug/l	20	--	10
Isopropyl Ether	ND		ug/l	20	--	10
Ethyl-Tert-Butyl-Ether	ND		ug/l	20	--	10
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--	10

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SAMPLE RESULTS

Lab ID:	L1203309-01	D	Date Collected:	02/27/12 17:20
Client ID:	EAST SEEP		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	2500	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

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SAMPLE RESULTS

Lab ID:	L1203309-02	Date Collected:	02/27/12 17:30
Client ID:	WEST SEEP	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/01/12 14:19		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: PSWS **Lab Number:** L1203309

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SAMPLE RESULTS

Lab ID: L1203309-02 Date Collected: 02/27/12 17:30

Client ID: WEST SEEP Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: PSWS **Lab Number:** L1203309

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SAMPLE RESULTS

Lab ID:	L1203309-02	Date Collected:	02/27/12 17:30
Client ID:	WEST SEEP	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

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Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-03	Date Collected:	02/27/12 18:05
Client ID:	MW-5D	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/01/12 14:51		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	7.5		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: PSWS **Lab Number:** L1203309

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SAMPLE RESULTS

Lab ID: L1203309-03 Date Collected: 02/27/12 18:05

Client ID: MW-5D Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	7.4		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-03	Date Collected:	02/27/12 18:05
Client ID:	MW-5D	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-04	Date Collected:	02/27/12 18:30
Client ID:	MW-28	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/01/12 15:22		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	4.2		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	90		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	2.7		ug/l	1.0	--	1
trans-1,2-Dichloroethene	100		ug/l	1.0	--	1
Trichloroethene	190		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	1.0		ug/l	1.0	--	1
1,4-Dichlorobenzene	3.5		ug/l	1.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID: L1203309-04 Date Collected: 02/27/12 18:30

Client ID: MW-28 Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	740	E	ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-04	Date Collected:	02/27/12 18:30
Client ID:	MW-28	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-04	D	Date Collected:	02/27/12 18:30
Client ID:	MW-28		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	03/02/12 11:31			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
cis-1,2-Dichloroethene	680		ug/l	10	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-05	Date Collected:	02/27/12 18:40
Client ID:	MW-5	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/02/12 09:57		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	5.3		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID: L1203309-05 Date Collected: 02/27/12 18:40

Client ID: MW-5 Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	8.3		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-05	Date Collected:	02/27/12 18:40
Client ID:	MW-5	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-06	D	Date Collected:	02/27/12 19:30
Client ID:	MW-27R		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	03/02/12 10:28			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	200	--	100
1,1-Dichloroethane	ND		ug/l	100	--	100
Chloroform	ND		ug/l	100	--	100
Carbon tetrachloride	ND		ug/l	100	--	100
1,2-Dichloropropane	ND		ug/l	100	--	100
Dibromochloromethane	ND		ug/l	100	--	100
1,1,2-Trichloroethane	ND		ug/l	100	--	100
Tetrachloroethene	ND		ug/l	100	--	100
Chlorobenzene	ND		ug/l	100	--	100
Trichlorofluoromethane	ND		ug/l	200	--	100
1,2-Dichloroethane	ND		ug/l	100	--	100
1,1,1-Trichloroethane	ND		ug/l	100	--	100
Bromodichloromethane	ND		ug/l	100	--	100
trans-1,3-Dichloropropene	ND		ug/l	50	--	100
cis-1,3-Dichloropropene	ND		ug/l	50	--	100
1,1-Dichloropropene	ND		ug/l	200	--	100
Bromoform	ND		ug/l	200	--	100
1,1,2,2-Tetrachloroethane	ND		ug/l	100	--	100
Benzene	ND		ug/l	50	--	100
Toluene	ND		ug/l	100	--	100
Ethylbenzene	ND		ug/l	100	--	100
Chloromethane	ND		ug/l	200	--	100
Bromomethane	ND		ug/l	200	--	100
Vinyl chloride	1800		ug/l	100	--	100
Chloroethane	ND		ug/l	200	--	100
1,1-Dichloroethene	ND		ug/l	100	--	100
trans-1,2-Dichloroethene	1700		ug/l	100	--	100
Trichloroethene	4300		ug/l	100	--	100
1,2-Dichlorobenzene	ND		ug/l	100	--	100
1,3-Dichlorobenzene	ND		ug/l	100	--	100
1,4-Dichlorobenzene	ND		ug/l	100	--	100

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID: L1203309-06 D Date Collected: 02/27/12 19:30

Client ID: MW-27R Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	200	--	100
p/m-Xylene	ND		ug/l	200	--	100
o-Xylene	ND		ug/l	100	--	100
cis-1,2-Dichloroethene	8500		ug/l	100	--	100
Dibromomethane	ND		ug/l	200	--	100
1,2,3-Trichloropropane	ND		ug/l	200	--	100
Styrene	ND		ug/l	100	--	100
Dichlorodifluoromethane	ND		ug/l	200	--	100
Acetone	ND		ug/l	500	--	100
Carbon disulfide	ND		ug/l	200	--	100
2-Butanone	ND		ug/l	500	--	100
4-Methyl-2-pentanone	ND		ug/l	500	--	100
2-Hexanone	ND		ug/l	500	--	100
Bromochloromethane	ND		ug/l	200	--	100
Tetrahydrofuran	ND		ug/l	500	--	100
2,2-Dichloropropane	ND		ug/l	200	--	100
1,2-Dibromoethane	ND		ug/l	200	--	100
1,3-Dichloropropane	ND		ug/l	200	--	100
1,1,1,2-Tetrachloroethane	ND		ug/l	100	--	100
Bromobenzene	ND		ug/l	200	--	100
n-Butylbenzene	ND		ug/l	200	--	100
sec-Butylbenzene	ND		ug/l	200	--	100
tert-Butylbenzene	ND		ug/l	200	--	100
o-Chlorotoluene	ND		ug/l	200	--	100
p-Chlorotoluene	ND		ug/l	200	--	100
1,2-Dibromo-3-chloropropane	ND		ug/l	200	--	100
Hexachlorobutadiene	ND		ug/l	60	--	100
Isopropylbenzene	ND		ug/l	200	--	100
p-Isopropyltoluene	ND		ug/l	200	--	100
Naphthalene	ND		ug/l	200	--	100
n-Propylbenzene	ND		ug/l	200	--	100
1,2,3-Trichlorobenzene	ND		ug/l	200	--	100
1,2,4-Trichlorobenzene	ND		ug/l	200	--	100
1,3,5-Trimethylbenzene	ND		ug/l	200	--	100
1,2,4-Trimethylbenzene	ND		ug/l	200	--	100
Ethyl ether	ND		ug/l	200	--	100
Isopropyl Ether	ND		ug/l	200	--	100
Ethyl-Tert-Butyl-Ether	ND		ug/l	200	--	100
Tertiary-Amyl Methyl Ether	ND		ug/l	200	--	100

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-06	D	Date Collected:	02/27/12 19:30
Client ID:	MW-27R		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	25000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-07	D	Date Collected:	02/27/12 20:30
Client ID:	MW-27D		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	03/02/12 11:00			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	4.0	--	2
1,1-Dichloroethane	ND		ug/l	2.0	--	2
Chloroform	ND		ug/l	2.0	--	2
Carbon tetrachloride	ND		ug/l	2.0	--	2
1,2-Dichloropropane	ND		ug/l	2.0	--	2
Dibromochloromethane	ND		ug/l	2.0	--	2
1,1,2-Trichloroethane	ND		ug/l	2.0	--	2
Tetrachloroethene	ND		ug/l	2.0	--	2
Chlorobenzene	ND		ug/l	2.0	--	2
Trichlorofluoromethane	ND		ug/l	4.0	--	2
1,2-Dichloroethane	ND		ug/l	2.0	--	2
1,1,1-Trichloroethane	ND		ug/l	2.0	--	2
Bromodichloromethane	ND		ug/l	2.0	--	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	--	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	--	2
1,1-Dichloropropene	ND		ug/l	4.0	--	2
Bromoform	ND		ug/l	4.0	--	2
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	--	2
Benzene	ND		ug/l	1.0	--	2
Toluene	ND		ug/l	2.0	--	2
Ethylbenzene	ND		ug/l	2.0	--	2
Chloromethane	ND		ug/l	4.0	--	2
Bromomethane	ND		ug/l	4.0	--	2
Vinyl chloride	26		ug/l	2.0	--	2
Chloroethane	ND		ug/l	4.0	--	2
1,1-Dichloroethene	ND		ug/l	2.0	--	2
trans-1,2-Dichloroethene	22		ug/l	2.0	--	2
Trichloroethene	2.9		ug/l	2.0	--	2
1,2-Dichlorobenzene	ND		ug/l	2.0	--	2
1,3-Dichlorobenzene	ND		ug/l	2.0	--	2
1,4-Dichlorobenzene	ND		ug/l	2.0	--	2

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID: L1203309-07 D Date Collected: 02/27/12 20:30

Client ID: MW-27D Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	4.0	--	2
p/m-Xylene	ND		ug/l	4.0	--	2
o-Xylene	ND		ug/l	2.0	--	2
cis-1,2-Dichloroethene	110		ug/l	2.0	--	2
Dibromomethane	ND		ug/l	4.0	--	2
1,2,3-Trichloropropane	ND		ug/l	4.0	--	2
Styrene	ND		ug/l	2.0	--	2
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
Acetone	ND		ug/l	10	--	2
Carbon disulfide	ND		ug/l	4.0	--	2
2-Butanone	ND		ug/l	10	--	2
4-Methyl-2-pentanone	ND		ug/l	10	--	2
2-Hexanone	ND		ug/l	10	--	2
Bromochloromethane	ND		ug/l	4.0	--	2
Tetrahydrofuran	ND		ug/l	10	--	2
2,2-Dichloropropane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
Bromobenzene	ND		ug/l	4.0	--	2
n-Butylbenzene	ND		ug/l	4.0	--	2
sec-Butylbenzene	ND		ug/l	4.0	--	2
tert-Butylbenzene	ND		ug/l	4.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
1,2-Dibromo-3-chloropropane	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
Isopropylbenzene	ND		ug/l	4.0	--	2
p-Isopropyltoluene	ND		ug/l	4.0	--	2
Naphthalene	ND		ug/l	4.0	--	2
n-Propylbenzene	ND		ug/l	4.0	--	2
1,2,3-Trichlorobenzene	ND		ug/l	4.0	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2
1,3,5-Trimethylbenzene	ND		ug/l	4.0	--	2
1,2,4-Trimethylbenzene	ND		ug/l	4.0	--	2
Ethyl ether	ND		ug/l	4.0	--	2
Isopropyl Ether	ND		ug/l	4.0	--	2
Ethyl-Tert-Butyl-Ether	ND		ug/l	4.0	--	2
Tertiary-Amyl Methyl Ether	ND		ug/l	4.0	--	2

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-07	D	Date Collected:	02/27/12 20:30
Client ID:	MW-27D		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	500	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-08	Date Collected:	02/27/12 20:35
Client ID:	MW-32	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/01/12 16:25		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	3.5		ug/l	1.0	--	1
Trichloroethene	110		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID: L1203309-08 Date Collected: 02/27/12 20:35

Client ID: MW-32 Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	50		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-08	Date Collected:	02/27/12 20:35
Client ID:	MW-32	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-09	D	Date Collected:	02/27/12 00:00
Client ID:	DUP-1		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	03/01/12 16:56			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	4.0	--	2
1,1-Dichloroethane	ND		ug/l	2.0	--	2
Chloroform	ND		ug/l	2.0	--	2
Carbon tetrachloride	ND		ug/l	2.0	--	2
1,2-Dichloropropane	ND		ug/l	2.0	--	2
Dibromochloromethane	ND		ug/l	2.0	--	2
1,1,2-Trichloroethane	ND		ug/l	2.0	--	2
Tetrachloroethene	ND		ug/l	2.0	--	2
Chlorobenzene	ND		ug/l	2.0	--	2
Trichlorofluoromethane	ND		ug/l	4.0	--	2
1,2-Dichloroethane	ND		ug/l	2.0	--	2
1,1,1-Trichloroethane	ND		ug/l	2.0	--	2
Bromodichloromethane	ND		ug/l	2.0	--	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	--	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	--	2
1,1-Dichloropropene	ND		ug/l	4.0	--	2
Bromoform	ND		ug/l	4.0	--	2
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	--	2
Benzene	ND		ug/l	1.0	--	2
Toluene	ND		ug/l	2.0	--	2
Ethylbenzene	ND		ug/l	2.0	--	2
Chloromethane	ND		ug/l	4.0	--	2
Bromomethane	ND		ug/l	4.0	--	2
Vinyl chloride	28		ug/l	2.0	--	2
Chloroethane	ND		ug/l	4.0	--	2
1,1-Dichloroethene	ND		ug/l	2.0	--	2
trans-1,2-Dichloroethene	23		ug/l	2.0	--	2
Trichloroethene	3.9		ug/l	2.0	--	2
1,2-Dichlorobenzene	ND		ug/l	2.0	--	2
1,3-Dichlorobenzene	ND		ug/l	2.0	--	2
1,4-Dichlorobenzene	ND		ug/l	2.0	--	2

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID: L1203309-09 D Date Collected: 02/27/12 00:00

Client ID: DUP-1 Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	4.0	--	2
p/m-Xylene	ND		ug/l	4.0	--	2
o-Xylene	ND		ug/l	2.0	--	2
cis-1,2-Dichloroethene	120		ug/l	2.0	--	2
Dibromomethane	ND		ug/l	4.0	--	2
1,2,3-Trichloropropane	ND		ug/l	4.0	--	2
Styrene	ND		ug/l	2.0	--	2
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
Acetone	ND		ug/l	10	--	2
Carbon disulfide	ND		ug/l	4.0	--	2
2-Butanone	ND		ug/l	10	--	2
4-Methyl-2-pentanone	ND		ug/l	10	--	2
2-Hexanone	ND		ug/l	10	--	2
Bromochloromethane	ND		ug/l	4.0	--	2
Tetrahydrofuran	ND		ug/l	10	--	2
2,2-Dichloropropane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
Bromobenzene	ND		ug/l	4.0	--	2
n-Butylbenzene	ND		ug/l	4.0	--	2
sec-Butylbenzene	ND		ug/l	4.0	--	2
tert-Butylbenzene	ND		ug/l	4.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
1,2-Dibromo-3-chloropropane	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
Isopropylbenzene	ND		ug/l	4.0	--	2
p-Isopropyltoluene	ND		ug/l	4.0	--	2
Naphthalene	ND		ug/l	4.0	--	2
n-Propylbenzene	ND		ug/l	4.0	--	2
1,2,3-Trichlorobenzene	ND		ug/l	4.0	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2
1,3,5-Trimethylbenzene	ND		ug/l	4.0	--	2
1,2,4-Trimethylbenzene	ND		ug/l	4.0	--	2
Ethyl ether	ND		ug/l	4.0	--	2
Isopropyl Ether	ND		ug/l	4.0	--	2
Ethyl-Tert-Butyl-Ether	ND		ug/l	4.0	--	2
Tertiary-Amyl Methyl Ether	ND		ug/l	4.0	--	2

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-09	D	Date Collected:	02/27/12 00:00
Client ID:	DUP-1		Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	500	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-10	Date Collected:	02/27/12 00:00
Client ID:	TRIP BLANK	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/01/12 09:05		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID: L1203309-10 Date Collected: 02/27/12 00:00

Client ID: TRIP BLANK Date Received: 02/28/12

Sample Location: NBHS MECH. RM. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

SAMPLE RESULTS

Lab ID:	L1203309-10	Date Collected:	02/27/12 00:00
Client ID:	TRIP BLANK	Date Received:	02/28/12
Sample Location:	NBHS MECH. RM.	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/01/12 08:33
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04,08-10 Batch: WG521107-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/01/12 08:33
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04,08-10 Batch: WG521107-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/01/12 08:33
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04,08-10 Batch: WG521107-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/02/12 07:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04-05,07 Batch: WG521107-6					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/02/12 07:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04-05,07 Batch: WG521107-6					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/02/12 07:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04-05,07 Batch: WG521107-6					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/02/12 07:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 06 Batch: WG521347-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: PSWS **Lab Number:** L1203309
Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/02/12 07:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 06 Batch: WG521347-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: PSWS **Lab Number:** L1203309

Project Number: 115058 **Report Date:** 03/05/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/02/12 07:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 06 Batch: WG521347-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG521107-1 WG521107-2								
Methylene chloride	86		86		70-130	0		20
1,1-Dichloroethane	88		87		70-130	1		20
Chloroform	89		88		70-130	1		20
Carbon tetrachloride	76		70		70-130	8		20
1,2-Dichloropropane	86		86		70-130	0		20
Dibromochloromethane	81		74		70-130	9		20
1,1,2-Trichloroethane	84		82		70-130	2		20
Tetrachloroethene	92		90		70-130	2		20
Chlorobenzene	85		83		70-130	2		20
Trichlorofluoromethane	90		90		70-130	0		20
1,2-Dichloroethane	88		87		70-130	1		20
1,1,1-Trichloroethane	84		80		70-130	5		20
Bromodichloromethane	81		73		70-130	10		20
trans-1,3-Dichloropropene	76		72		70-130	5		20
cis-1,3-Dichloropropene	75		71		70-130	5		20
1,1-Dichloropropene	86		85		70-130	1		20
Bromoform	78		71		70-130	9		20
1,1,2,2-Tetrachloroethane	79		77		70-130	3		20
Benzene	89		89		70-130	0		20
Toluene	88		86		70-130	2		20
Ethylbenzene	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG521107-1 WG521107-2								
Chloromethane	77		78		70-130	1		20
Bromomethane	84		74		70-130	13		20
Vinyl chloride	81		82		70-130	1		20
Chloroethane	81		82		70-130	1		20
1,1-Dichloroethene	84		85		70-130	1		20
trans-1,2-Dichloroethene	89		90		70-130	1		20
Trichloroethene	88		87		70-130	1		20
1,2-Dichlorobenzene	86		84		70-130	2		20
1,3-Dichlorobenzene	88		86		70-130	2		20
1,4-Dichlorobenzene	86		85		70-130	1		20
Methyl tert butyl ether	82		81		70-130	1		20
p/m-Xylene	93		92		70-130	1		20
o-Xylene	88		86		70-130	2		20
cis-1,2-Dichloroethene	89		88		70-130	1		20
Dibromomethane	88		86		70-130	2		20
1,2,3-Trichloropropane	80		77		70-130	4		20
Styrene	88		86		70-130	2		20
Dichlorodifluoromethane	70		72		70-130	3		20
Acetone	102		105		70-130	3		20
Carbon disulfide	78		78		70-130	0		20
2-Butanone	78		77		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG521107-1 WG521107-2								
4-Methyl-2-pentanone	73		70		70-130	4		20
2-Hexanone	71		**69**	Q	70-130	3		20
Bromochloromethane	88		85		70-130	3		20
Tetrahydrofuran	71		71		70-130	0		20
2,2-Dichloropropane	83		82		70-130	1		20
1,2-Dibromoethane	81		78		70-130	4		20
1,3-Dichloropropane	83		82		70-130	1		20
1,1,1,2-Tetrachloroethane	78		74		70-130	5		20
Bromobenzene	86		84		70-130	2		20
n-Butylbenzene	94		95		70-130	1		20
sec-Butylbenzene	94		95		70-130	1		20
tert-Butylbenzene	92		93		70-130	1		20
o-Chlorotoluene	90		88		70-130	2		20
p-Chlorotoluene	88		88		70-130	0		20
1,2-Dibromo-3-chloropropane	92		88		70-130	4		20
Hexachlorobutadiene	92		90		70-130	2		20
Isopropylbenzene	91		90		70-130	1		20
p-Isopropyltoluene	96		97		70-130	1		20
Naphthalene	78		75		70-130	4		20
n-Propylbenzene	93		93		70-130	0		20
1,2,3-Trichlorobenzene	84		81		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04,08-10 Batch: WG521107-1 WG521107-2								
1,2,4-Trichlorobenzene	90		85		70-130	6		20
1,3,5-Trimethylbenzene	92		92		70-130	0		20
1,2,4-Trimethylbenzene	92		91		70-130	1		20
Ethyl ether	80		79		70-130	1		20
Isopropyl Ether	83		83		70-130	0		20
Ethyl-Tert-Butyl-Ether	84		82		70-130	2		20
Tertiary-Amyl Methyl Ether	83		82		70-130	1		20
1,4-Dioxane	95		93		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04-05,07 Batch: WG521107-4 WG521107-5								
Methylene chloride	89		87		70-130	1		20
1,1-Dichloroethane	91		88		70-130	0		20
Chloroform	92		88		70-130	1		20
Carbon tetrachloride	75		**67**	Q	70-130	13		20
1,2-Dichloropropane	89		86		70-130	0		20
Dibromochloromethane	81		74		70-130	9		20
1,1,2-Trichloroethane	88		85		70-130	1		20
Tetrachloroethene	92		90		70-130	2		20
Chlorobenzene	86		85		70-130	0		20
Trichlorofluoromethane	98		96		70-130	6		20
1,2-Dichloroethane	92		87		70-130	1		20
1,1,1-Trichloroethane	84		79		70-130	6		20
Bromodichloromethane	81		73		70-130	10		20
trans-1,3-Dichloropropene	76		71		70-130	7		20
cis-1,3-Dichloropropene	76		70		70-130	7		20
1,1-Dichloropropene	90		88		70-130	2		20
Bromoform	79		70		70-130	11		20
1,1,2,2-Tetrachloroethane	82		79		70-130	0		20
Benzene	92		91		70-130	2		20
Toluene	89		88		70-130	0		20
Ethylbenzene	92		91		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04-05,07 Batch: WG521107-4 WG521107-5								
Chloromethane	86		89		70-130	14		20
Bromomethane	100		98		70-130	15		20
Vinyl chloride	92		89		70-130	9		20
Chloroethane	88		86		70-130	6		20
1,1-Dichloroethene	90		88		70-130	5		20
trans-1,2-Dichloroethene	94		94		70-130	5		20
Trichloroethene	92		87		70-130	1		20
1,2-Dichlorobenzene	89		86		70-130	0		20
1,3-Dichlorobenzene	90		88		70-130	0		20
1,4-Dichlorobenzene	89		86		70-130	0		20
Methyl tert butyl ether	79		76		70-130	8		20
p/m-Xylene	94		92		70-130	1		20
o-Xylene	87		86		70-130	2		20
cis-1,2-Dichloroethene	92		91		70-130	2		20
Dibromomethane	90		87		70-130	1		20
1,2,3-Trichloropropane	83		79		70-130	1		20
Styrene	88		85		70-130	3		20
Dichlorodifluoromethane	90		90		70-130	**25**	Q	20
Acetone	96		96		70-130	6		20
Carbon disulfide	74		71		70-130	9		20
2-Butanone	74		72		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04-05,07 Batch: WG521107-4 WG521107-5								
4-Methyl-2-pentanone	**67**	Q	**66**	Q	70-130	10		20
2-Hexanone	**68**	Q	**66**	Q	70-130	7		20
Bromochloromethane	92		87		70-130	1		20
Tetrahydrofuran	**68**	Q	**67**	Q	70-130	6		20
2,2-Dichloropropane	83		80		70-130	4		20
1,2-Dibromoethane	83		79		70-130	3		20
1,3-Dichloropropane	87		84		70-130	1		20
1,1,1,2-Tetrachloroethane	77		70		70-130	11		20
Bromobenzene	90		87		70-130	1		20
n-Butylbenzene	92		92		70-130	2		20
sec-Butylbenzene	92		93		70-130	1		20
tert-Butylbenzene	92		91		70-130	1		20
o-Chlorotoluene	91		89		70-130	1		20
p-Chlorotoluene	91		88		70-130	0		20
1,2-Dibromo-3-chloropropane	88		87		70-130	6		20
Hexachlorobutadiene	91		89		70-130	3		20
Isopropylbenzene	91		90		70-130	1		20
p-Isopropyltoluene	95		95		70-130	1		20
Naphthalene	78		74		70-130	5		20
n-Propylbenzene	94		93		70-130	0		20
1,2,3-Trichlorobenzene	84		79		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04-05,07 Batch: WG521107-4 WG521107-5								
1,2,4-Trichlorobenzene	88		85		70-130	6		20
1,3,5-Trimethylbenzene	92		92		70-130	0		20
1,2,4-Trimethylbenzene	94		93		70-130	1		20
Ethyl ether	78		78		70-130	3		20
Isopropyl Ether	82		80		70-130	4		20
Ethyl-Tert-Butyl-Ether	80		77		70-130	9		20
Tertiary-Amyl Methyl Ether	79		76		70-130	9		20
1,4-Dioxane	93		87		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	101		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06 Batch: WG521347-1 WG521347-2								
Methylene chloride	89		87		70-130	2		20
1,1-Dichloroethane	91		88		70-130	3		20
Chloroform	92		88		70-130	4		20
Carbon tetrachloride	75		**67**	Q	70-130	11		20
1,2-Dichloropropane	89		86		70-130	3		20
Dibromochloromethane	81		74		70-130	9		20
1,1,2-Trichloroethane	88		85		70-130	3		20
Tetrachloroethene	92		90		70-130	2		20
Chlorobenzene	86		85		70-130	1		20
Trichlorofluoromethane	98		96		70-130	2		20
1,2-Dichloroethane	92		87		70-130	6		20
1,1,1-Trichloroethane	84		79		70-130	6		20
Bromodichloromethane	81		73		70-130	10		20
trans-1,3-Dichloropropene	76		71		70-130	7		20
cis-1,3-Dichloropropene	76		70		70-130	8		20
1,1-Dichloropropene	90		88		70-130	2		20
Bromoform	79		70		70-130	12		20
1,1,2,2-Tetrachloroethane	82		79		70-130	4		20
Benzene	92		91		70-130	1		20
Toluene	89		88		70-130	1		20
Ethylbenzene	92		91		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06 Batch: WG521347-1 WG521347-2								
Chloromethane	86		89		70-130	3		20
Bromomethane	100		98		70-130	2		20
Vinyl chloride	92		89		70-130	3		20
Chloroethane	88		86		70-130	2		20
1,1-Dichloroethene	90		88		70-130	2		20
trans-1,2-Dichloroethene	94		94		70-130	0		20
Trichloroethene	92		87		70-130	6		20
1,2-Dichlorobenzene	89		86		70-130	3		20
1,3-Dichlorobenzene	90		88		70-130	2		20
1,4-Dichlorobenzene	89		86		70-130	3		20
Methyl tert butyl ether	79		76		70-130	4		20
p/m-Xylene	94		92		70-130	2		20
o-Xylene	87		86		70-130	1		20
cis-1,2-Dichloroethene	92		91		70-130	1		20
Dibromomethane	90		87		70-130	3		20
1,2,3-Trichloropropane	83		79		70-130	5		20
Styrene	88		85		70-130	3		20
Dichlorodifluoromethane	90		90		70-130	0		20
Acetone	96		96		70-130	0		20
Carbon disulfide	74		71		70-130	4		20
2-Butanone	74		72		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06 Batch: WG521347-1 WG521347-2								
4-Methyl-2-pentanone	**67**	Q	**66**	Q	70-130	2		20
2-Hexanone	**68**	Q	**66**	Q	70-130	3		20
Bromochloromethane	92		87		70-130	6		20
Tetrahydrofuran	**68**	Q	**67**	Q	70-130	1		20
2,2-Dichloropropane	83		80		70-130	4		20
1,2-Dibromoethane	83		79		70-130	5		20
1,3-Dichloropropane	87		84		70-130	4		20
1,1,1,2-Tetrachloroethane	77		70		70-130	10		20
Bromobenzene	90		87		70-130	3		20
n-Butylbenzene	92		92		70-130	0		20
sec-Butylbenzene	92		93		70-130	1		20
tert-Butylbenzene	92		91		70-130	1		20
o-Chlorotoluene	91		89		70-130	2		20
p-Chlorotoluene	91		88		70-130	3		20
1,2-Dibromo-3-chloropropane	88		87		70-130	1		20
Hexachlorobutadiene	91		89		70-130	2		20
Isopropylbenzene	91		90		70-130	1		20
p-Isopropyltoluene	95		95		70-130	0		20
Naphthalene	78		74		70-130	5		20
n-Propylbenzene	94		93		70-130	1		20
1,2,3-Trichlorobenzene	84		79		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06 Batch: WG521347-1 WG521347-2								
1,2,4-Trichlorobenzene	88		85		70-130	3		20
1,3,5-Trimethylbenzene	92		92		70-130	0		20
1,2,4-Trimethylbenzene	94		93		70-130	1		20
Ethyl ether	78		78		70-130	0		20
Isopropyl Ether	82		80		70-130	2		20
Ethyl-Tert-Butyl-Ether	80		77		70-130	4		20
Tertiary-Amyl Methyl Ether	79		76		70-130	4		20
1,4-Dioxane	93		87		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	101		98		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06 QC Batch ID: WG521347-4 WG521347-5 QC Sample: L1203309-06 Client ID: MW-27R												
Methylene chloride	ND	1000	910	91		900	90		70-130	1		20
1,1-Dichloroethane	ND	1000	930	93		920	92		70-130	1		20
Chloroform	ND	1000	920	92		910	91		70-130	1		20
Carbon tetrachloride	ND	1000	690	**69**	Q	720	72		70-130	4		20
1,2-Dichloropropane	ND	1000	930	93		920	92		70-130	1		20
Dibromochloromethane	ND	1000	790	79		840	84		70-130	6		20
1,1,2-Trichloroethane	ND	1000	900	90		890	89		70-130	1		20
Tetrachloroethene	ND	1000	870	87		870	87		70-130	0		20
Chlorobenzene	ND	1000	850	84		860	86		70-130	1		20
Trichlorofluoromethane	ND	1000	990	99		980	98		70-130	1		20
1,2-Dichloroethane	ND	1000	950	95		940	94		70-130	1		20
1,1,1-Trichloroethane	ND	1000	810	81		820	82		70-130	1		20
Bromodichloromethane	ND	1000	810	81		820	82		70-130	1		20
trans-1,3-Dichloropropene	ND	1000	730	73		750	75		70-130	3		20
cis-1,3-Dichloropropene	ND	1000	740	74		740	75		70-130	0		20
1,1-Dichloropropene	ND	1000	900	90		890	89		70-130	1		20
Bromoform	ND	1000	790	79		820	83		70-130	4		20
1,1,2,2-Tetrachloroethane	ND	1000	890	89		890	89		70-130	0		20
Benzene	ND	1000	920	92		920	92		70-130	0		20
Toluene	ND	1000	870	87		880	88		70-130	1		20
Ethylbenzene	ND	1000	900	88		900	89		70-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06 QC Batch ID: WG521347-4 WG521347-5 QC Sample: L1203309-06 Client ID: MW-27R												
Chloromethane	ND	1000	880	88		890	89		70-130	1		20
Bromomethane	ND	1000	840	84		900	90		70-130	7		20
Vinyl chloride	1800	1000	2400	**61**	Q	2400	**57**	Q	70-130	0		20
Chloroethane	ND	1000	890	89		910	91		70-130	2		20
1,1-Dichloroethene	ND	1000	940	94		910	91		70-130	3		20
trans-1,2-Dichloroethene	1700	1000	2500	79		2500	77		70-130	0		20
Trichloroethene	4300	1000	4800	**53**	Q	4800	**51**	Q	70-130	0		20
1,2-Dichlorobenzene	ND	1000	870	87		890	88		70-130	2		20
1,3-Dichlorobenzene	ND	1000	880	87		900	88		70-130	2		20
1,4-Dichlorobenzene	ND	1000	890	89		900	90		70-130	1		20
Methyl tert butyl ether	ND	1000	920	92		890	89		70-130	3		20
p/m-Xylene	ND	2000	1800	90		1800	90		70-130	0		20
o-Xylene	ND	2000	1800	90		1800	92		70-130	0		20
cis-1,2-Dichloroethene	8500	1000	9000	**51**	Q	8900	**47**	Q	70-130	1		20
Dibromomethane	ND	1000	950	95		920	92		70-130	3		20
1,2,3-Trichloropropane	ND	1000	880	88		890	89		70-130	1		20
Styrene	ND	2000	1800	92		1900	93		70-130	5		20
Dichlorodifluoromethane	ND	1000	880	88		870	87		70-130	1		20
Acetone	ND	1000	1100	106		990	100		70-130	11		20
Carbon disulfide	ND	1000	750	75		760	76		70-130	1		20
2-Butanone	ND	1000	860	82		860	83		70-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06 QC Batch ID: WG521347-4 WG521347-5 QC Sample: L1203309-06 Client ID: MW-27R												
4-Methyl-2-pentanone	ND	1000	780	78		770	77		70-130	1		20
2-Hexanone	ND	1000	760	76		750	75		70-130	1		20
Bromochloromethane	ND	1000	940	94		920	92		70-130	2		20
Tetrahydrofuran	ND	1000	860	86		820	82		70-130	5		20
2,2-Dichloropropane	ND	1000	740	74		750	75		70-130	1		20
1,2-Dibromoethane	ND	1000	850	85		850	85		70-130	0		20
1,3-Dichloropropane	ND	1000	890	89		900	90		70-130	1		20
1,1,1,2-Tetrachloroethane	ND	1000	740	74		760	76		70-130	3		20
Bromobenzene	ND	1000	890	89		890	89		70-130	0		20
n-Butylbenzene	ND	1000	840	84		860	86		70-130	2		20
sec-Butylbenzene	ND	1000	830	83		850	86		70-130	2		20
tert-Butylbenzene	ND	1000	840	84		870	87		70-130	4		20
o-Chlorotoluene	ND	1000	870	87		900	90		70-130	3		20
p-Chlorotoluene	ND	1000	880	88		890	89		70-130	1		20
1,2-Dibromo-3-chloropropane	ND	1000	910	91		910	91		70-130	0		20
Hexachlorobutadiene	ND	1000	790	79		820	82		70-130	4		20
Isopropylbenzene	ND	1000	860	86		860	86		70-130	0		20
p-Isopropyltoluene	ND	1000	860	86		890	89		70-130	3		20
Naphthalene	ND	1000	980	98		820	82		70-130	18		20
n-Propylbenzene	ND	1000	870	87		890	89		70-130	2		20
1,2,3-Trichlorobenzene	ND	1000	860	86		860	85		70-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06 QC Batch ID: WG521347-4 WG521347-5 QC Sample: L1203309-06 Client ID: MW-27R												
1,2,4-Trichlorobenzene	ND	1000	950	95		950	95		70-130	0		20
1,3,5-Trimethylbenzene	ND	1000	880	88		890	89		70-130	1		20
1,2,4-Trimethylbenzene	ND	1000	910	91		910	91		70-130	0		20
Ethyl ether	ND	1000	910	91		900	90		70-130	1		20
Isopropyl Ether	ND	1000	960	96		940	94		70-130	2		20
Ethyl-Tert-Butyl-Ether	ND	1000	930	93		910	91		70-130	2		20
Tertiary-Amyl Methyl Ether	ND	1000	910	91		890	89		70-130	2		20
1,4-Dioxane	ND	100000	120000	124		120000	122		70-130	0		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		99		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	101		100		70-130
Toluene-d8	99		100		70-130

Project Name: PSWS
Project Number: 115058

Lab Number: L1203309
Report Date: 03/05/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1203309-01A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-01B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-02A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-02B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-03A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-03B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-04A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-04B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-05A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-05B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-06A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-06B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-06C	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-06D	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-07A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-07B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-08A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-08B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-09A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-09B	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)
L1203309-10A	Vial HCl preserved	A	N/A	2.7	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	PSWS	**Lab Number:**	L1203309
Project Number:	115058	**Report Date:**	03/05/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	PSWS	**Lab Number:**	L1203309
Project Number:	115058	**Report Date:**	03/05/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: PSWS **Lab Number:** L1203309
Project Number: 115058 **Report Date:** 03/05/12

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

Serial_No:03051216:33

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 2/28/12

ALPHA Job #: L1203309

Client Information

Client: TRC

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978-970-5600

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD@ " " "

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PSWS

Project Location: NBHS MECH. RM.

Project #: 119058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 3/6/12 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #: 42219

Regulatory Requirements/Report Limits

State /Fed Program MCP / RCP Criteria GW-2

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☑ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

SAMPLE HANDLING
Filtration
☐ Done
☑ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs by 8260	Sample Specific Comments	Total # Bottles
03309 1	EAST SEEP	2/27/12	17:20	SW	JF	✓		2
2	WEST SEEP	↓	17:30	SW	JF	✓		2
3	MW-5D	↓	18:05	GW	JR	✓		2
4	MW-28	↓	18:30	GW	JF	✓		2
5	MW-5	↓	18:40	GW	KJ	✓		2
6	MW-27R	↓	19:30	GW	JF	✓		2
7	MW-27D	↓	20:30	GW	JR	✓	+ MS/MSD	4
8	MW-32	↓	20:35	GW	KJ	✓		2
9	DUP-1	↓	-	GW	-	✓	DUP.	2
10	TRIP BLANK	↓	-	DW	-	✓	T.B.	1

Container Type	V
Preservative	B

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	2/28/12	[illegible]	2/28/12 1140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:03051216:33

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 2/28/12

ALPHA Job #: L1203309

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978-770-5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD@ " " "
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PSWS
Project Location: NBHS MECH. RM.
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 3/6/12 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client Info PO #: 42219

Regulatory Requirements/Report Limits

State /Fed Program MCP / EPA Criteria GW-2

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?
☑ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

SAMPLE HANDLING
Filtration ☐ Done ☑ Not needed ☐ Lab to do
Preservation ☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs by 8260	Sample Specific Comments	Total # Bottles
03309-1	EAST SEEP	2/27/12	17:20	SW	JF	✓		2
2	WEST SEEP		17:30	SW	JF	✓		2
3	MW-5D		18:05	GW	JR	✓		2
4	MW-28		18:30	GW	JF	✓		2
5	MW-5		18:40	GW	KJ	✓		2
6	MW-27R		19:30	GW	JF	✓	MS/MSD JF 2/29/12	2
7	MW-27D		20:30	GW	JR	✓	~~+ MS/MSD~~	4
8	MW-32		20:35	GW	KJ	✓		2
9	DUP-1		-	GW	-	✓	DUP.	2
10	TRIP BLANK		-	DW	-	✓	T.B.	1

Container Type	V
Preservative	B

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	2/28/12	[illegible]	2/28 1140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1203309

Instrument ID: Quimby.i Calibration Date: 01-MAR-2012 Time: 07:30

Lab File ID: 0301A02 Init. Calib. Date(s): 28-FEB-2 28-FEB-2

Sample No: 8260 CCAL Init. Calib. Times : 07:53 12:06

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.44495	.31113	.1	30	20	F
chloromethane	.53683	.41216	.1	23	20	F
vinyl chloride	.41072	.33272	.1	19	20	
bromomethane	.23193	.19435	.1	16	20	
chloroethane	.30376	.24656	.1	19	20	
trichlorofluoromethane	.4978	.44778	.1	10	20	
ethyl ether	.19551	.15596	.05	20	20	F
acetone	100	102	.1	-2	20	
1,1,-dichloroethene	.32959	.27739	.1	16	20	
methylene chloride	.35882	.30755	.1	14	20	
carbon disulfide	.95519	.74511	.1	22	20	F
methyl tert butyl ether	.82371	.6776	.1	18	20	
trans-1,2-dichloroethene	.35403	.31545	.1	11	20	
Diisopropyl Ether	1.2605	1.0458	.05	17	20	
1,1-dichloroethane	.70365	.62078	.2	12	20	
Ethyl-Tert-Butyl-Ether	1.1412	.95567	.05	16	20	
2-butanone	.11316	.08787	.1	22	20	F
2,2-dichloropropane	.60535	.50419	.05	17	20	
cis-1,2-dichloroethene	.39143	.34729	.1	11	20	
chloroform	.61483	.54568	.2	11	20	
bromochloromethane	.15782	.13821	.05	12	20	
tetrahydrofuran	.07354	.05194	.05	29	20	F
1,1,1-trichloroethane	.53837	.45013	.1	16	20	
1,1-dichloropropene	.55313	.47309	.05	14	20	
carbontetrachloride	.38026	.28925	.1	24	20	F
Tertiary-Amyl Methyl Ether	.90318	.74581	.05	17	20	
1,2-dichloroethane	.44458	.39098	.1	12	20	
benzene	1.6096	1.4322	.5	11	20	
trichloroethene	.39267	.34383	.2	12	20	
1,2-dichloropropane	.39632	.34297	.1	13	20	
bromodichloromethane	.37652	.30595	.2	19	20	
1,4-dioxane	.00174	.00166	.05	5	20	F
dibromomethane	.17522	.15499	.05	12	20	
4-methyl-2-pentanone	.10497	.07683	.1	27	20	F
cis-1,3-dichloropropene	.59303	.44382	.2	25	20	F
toluene	1.3557	1.1871	.4	12	20	
trans-1,3-dichloropropene	.62754	.47432	.1	24	20	F
1,1,2-trichloroethane	.28608	.23914	.1	16	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1203309

Instrument ID: Quimby.i Calibration Date: 01-MAR-2012 Time: 07:30

Lab File ID: 0301A02 Init. Calib. Date(s): 28-FEB-2 28-FEB-2

Sample No: 8260 CCAL Init. Calib. Times : 07:53 12:06

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
2-hexanone	.22502	.15885	.1	29	20	F
1,3-dichloropropane	.65313	.54279	.05	17	20	
tetrachloroethene	.51235	.4728	.2	8	20	
chlorodibromomethane	100	80.923	.1	19	20	
1,2-dibromoethane	.32118	.26039	.1	19	20	
chlorobenzene	1.4466	1.2276	.5	15	20	
1,1,1,2-tetrachloroethane	.37599	.29442	.05	22	20	F
ethyl benzene	2.6262	2.3833	.1	9	20	
p/m xylene	1.0233	.95227	.1	7	20	
o xylene	1.0056	.88603	.3	12	20	
styrene	1.6856	1.4775	.31	12	20	
isopropylbenzene	2.5426	2.3187	.1	9	20	
bromoform	100	77.651	.1	22	20	F
1,1,2,2,-tetrachloroethane	.70234	.5558	.3	21	20	F
1,2,3-trichloropropane	.60473	.48351	.05	20	20	F
n-propylbenzene	4.9709	4.6369	.05	7	20	
bromobenzene	.99801	.86325	.05	14	20	
1,3,5-trimethybenzene	3.5845	3.2959	.05	8	20	
2-chlorotoluene	3.3939	3.0363	.05	11	20	
4-chorotoluene	3.2939	2.9140	.05	12	20	
tert-butylbenzene	2.8147	2.6018	.05	8	20	
1,2,4-trimethylbenzene	3.6325	3.3548	.05	8	20	
sec-butylbenzene	3.9528	3.7211	.05	6	20	
p-isopropyltoluene	3.1537	3.0438	.05	3	20	
1,3-dichlorobenzene	1.9495	1.7119	.6	12	20	
1,4-dichlorobenzene	2.0053	1.7205	.5	14	20	
n-butylbenzene	3.2472	3.0549	.05	6	20	
1,2-dichlorobenzene	1.823	1.5634	.4	14	20	
1,2-dibromo-3-chloropropane	.16334	.15069	.05	8	20	
1,2,4-trichlorobenzene	.8337	.74864	.2	10	20	
hexachlorobutadiene	.27531	.25474	.05	7	20	
naphthalene	1.8722	1.4689	.05	22	20	F
1,2,3-trichlorobenzene	.70945	.59284	.05	16	20	
dibromofluoromethane	.21449	.21335	.05	1	20	
1,2-dichloroethane-d4	.24903	.24446	.05	2	20	
toluene-d8	1.2727	1.2887	.05	-1	20	
4-bromofluorobenzene	.96705	.96277	.05	0	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1203309

Instrument ID: Quimby.i Calibration Date: 02-MAR-2012 Time: 06:49

Lab File ID: 0302A02 Init. Calib. Date(s): 28-FEB-2 28-FEB-2

Sample No: 8260 CCAL Init. Calib. Times : 07:53 12:06

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.44495	.39899	.1	10	20	
chloromethane	.53683	.46198	.1	14	20	
vinyl chloride	.41072	.37647	.1	8	20	
bromomethane	.23193	.23184	.1	0	20	
chloroethane	.30376	.26794	.1	12	20	
trichlorofluoromethane	.4978	.49022	.1	2	20	
ethyl ether	.19551	.15351	.05	21	20	F
acetone	100	95.995	.1	4	20	
1,1,-dichloroethene	.32959	.29656	.1	10	20	
methylene chloride	.35882	.31845	.1	11	20	
carbon disulfide	.95519	.70312	.1	26	20	F
methyl tert butyl ether	.82371	.64988	.1	21	20	F
trans-1,2-dichloroethene	.35403	.3314	.1	6	20	
Diisopropyl Ether	1.2605	1.0346	.05	18	20	
1,1-dichloroethane	.70365	.63873	.2	9	20	
Ethyl-Tert-Butyl-Ether	1.1412	.90754	.05	20	20	F
2-butanone	.11316	.08417	.1	26	20	F
2,2-dichloropropane	.60535	.50289	.05	17	20	
cis-1,2-dichloroethene	.39143	.36076	.1	8	20	
chloroform	.61483	.56351	.2	8	20	
bromochloromethane	.15782	.1448	.05	8	20	
tetrahydrofuran	.07354	.05031	.05	32	20	F
1,1,1-trichloroethane	.53837	.45265	.1	16	20	
1,1-dichloropropene	.55313	.49604	.05	10	20	
carbontetrachloride	.38026	.28672	.1	25	20	F
Tertiary-Amyl Methyl Ether	.90318	.71043	.05	21	20	F
1,2-dichloroethane	.44458	.40823	.1	8	20	
benzene	1.6096	1.4774	.5	8	20	
trichloroethene	.39267	.36004	.2	8	20	
1,2-dichloropropane	.39632	.35391	.1	11	20	
bromodichloromethane	.37652	.30492	.2	19	20	
1,4-dioxane	.00174	.00162	.05	7	20	F
dibromomethane	.17522	.15715	.05	10	20	
4-methyl-2-pentanone	.10497	.07071	.1	33	20	F
cis-1,3-dichloropropene	.59303	.45037	.2	24	20	F
toluene	1.3557	1.2034	.4	11	20	
trans-1,3-dichloropropene	.62754	.47705	.1	24	20	F
1,1,2-trichloroethane	.28608	.2526	.1	12	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1203309

Instrument ID: Quimby.i Calibration Date: 02-MAR-2012 Time: 06:49

Lab File ID: 0302A02 Init. Calib. Date(s): 28-FEB-2 28-FEB-2

Sample No: 8260 CCAL Init. Calib. Times : 07:53 12:06

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
2-hexanone	.22502	.15377	.1	32	20	F
1,3-dichloropropane	.65313	.57065	.05	13	20	
tetrachloroethene	.51235	.47185	.2	8	20	
chlorodibromomethane	100	81.319	.1	19	20	
1,2-dibromoethane	.32118	.26786	.1	17	20	
chlorobenzene	1.4466	1.2506	.5	14	20	
1,1,1,2-tetrachloroethane	.37599	.2882	.05	23	20	F
ethyl benzene	2.6262	2.4108	.1	8	20	
p/m xylene	1.0233	.96455	.1	6	20	
o xylene	1.0056	.87859	.3	13	20	
styrene	1.6856	1.4852	.31	12	20	
isopropylbenzene	2.5426	2.3056	.1	9	20	
bromoform	100	78.557	.1	21	20	F
1,1,2,2,-tetrachloroethane	.70234	.57722	.3	18	20	
1,2,3-trichloropropane	.60473	.50303	.05	17	20	
n-propylbenzene	4.9709	4.6614	.05	6	20	
bromobenzene	.99801	.89555	.05	10	20	
1,3,5-trimethybenzene	3.5845	3.3108	.05	8	20	
2-chlorotoluene	3.3939	3.0819	.05	9	20	
4-chorotoluene	3.2939	3.0078	.05	9	20	
tert-butylbenzene	2.8147	2.5863	.05	8	20	
1,2,4-trimethylbenzene	3.6325	3.4194	.05	6	20	
sec-butylbenzene	3.9528	3.6454	.05	8	20	
p-isopropyltoluene	3.1537	2.9947	.05	5	20	
1,3-dichlorobenzene	1.9495	1.7479	.6	10	20	
1,4-dichlorobenzene	2.0053	1.7772	.5	11	20	
n-butylbenzene	3.2472	2.9855	.05	8	20	
1,2-dichlorobenzene	1.823	1.6147	.4	11	20	
1,2-dibromo-3-chloropropane	.16334	.14338	.05	12	20	
1,2,4-trichlorobenzene	.8337	.73563	.2	12	20	
hexachlorobutadiene	.27531	.25141	.05	9	20	
naphthalene	1.8722	1.4636	.05	22	20	F
1,2,3-trichlorobenzene	.70945	.59305	.05	16	20	
dibromofluoromethane	.21449	.21574	.05	-1	20	
1,2-dichloroethane-d4	.24903	.24251	.05	3	20	
toluene-d8	1.2727	1.2706	.05	0	20	
4-bromofluorobenzene	.96705	.95909	.05	1	20	

FORM VII MCP-8260-10

ANALYTICAL REPORT

Lab Number:	L1206397
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS
Project Number:	115058
Report Date:	04/26/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1206397-01	MW-5D	NEW BEDFORD	04/10/12 17:35
L1206397-02	MW-5	NEW BEDFORD	04/10/12 17:55
L1206397-03	MW-18	NEW BEDFORD	04/10/12 19:25
L1206397-04	MW-29	NEW BEDFORD	04/10/12 20:10
L1206397-05	MW-31	NEW BEDFORD	04/10/12 21:10
L1206397-06	MW-33	NEW BEDFORD	04/11/12 16:55
L1206397-07	MW-28	NEW BEDFORD	04/11/12 17:15
L1206397-08	MW-27D	NEW BEDFORD	04/11/12 19:20
L1206397-09	MW-32	NEW BEDFORD	04/11/12 20:20
L1206397-10	DUP-1	NEW BEDFORD	04/11/12 00:00
L1206397-11	TRIP BLANK	NEW BEDFORD	04/06/12 00:00

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS **Lab Number:** L1206397
Project Number: 115058 **Report Date:** 04/26/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

MCP Related Narratives

Volatile Organics

L1206397-07 and -09 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

L1206397-07 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The

Project Name: NBHS **Lab Number:** L1206397
Project Number: 115058 **Report Date:** 04/26/12

Case Narrative (continued)

result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

In reference to question G:

L1206397-01 through -06, -08, -10, and -11: Tetrahydrofuran did not achieve the requested CAM reporting limit.

L1206397-07: None of the target analytes achieved the requested CAM reporting limits.

L1206397-09: The following target analytes did not achieve the requested CAM reporting limits: Methylene chloride, Trichlorofluoromethane, 1,1-Dichloropropene, Bromoform, Chloromethane, Bromomethane, Chloroethane, Methyl tert butyl ether, p/m-Xylene, Dibromomethane, 1,2,3-Trichloropropane, Dichlorodifluoromethane, Carbon disulfide, Bromochloromethane, Tetrahydrofuran, 2,2-Dichloropropane, 1,2-Dibromoethane, 1,3-Dichloropropane, Bromobenzene, n-Butylbenzene, sec-Butylbenzene, tert-Butylbenzene, o-Chlorotoluene, p-Chlorotoluene, 1,2-Dibromo-3-chloropropane, Isopropylbenzene, p-Isopropyltoluene, Naphthalene, n-Propylbenzene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Ethyl ether, Isopropyl ether, Ethyl-Tert-Butyl-Ether, and Tertiary-Amyl Methyl Ether.

In reference to question H:

The WG530229-4/-5 MS/MSD recoveries, performed on L1206397-01, were above the acceptance criteria for Carbon tetrachloride (138%/148%), 1,2-Dibromo-3-chloropropane (MSD at 144%), and 1,4-Dioxane (134%/142%); however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/MSD are considered to have a potentially high bias for these compounds.

The initial calibration, associated with L1206397-01 through -11, did not meet the method required minimum response factors on the lowest calibration standards for 4-Methyl-2-pentanone (0.09279) and 1,4-Dioxane (0.00225), as well as the average response factor for 2-Butanone, 4-Methyl-2-pentanone, and 1,4-Dioxane. In addition, a quadratic fit was utilized for Acetone and 1,2-Dibromo-3-chloropropane.

The continuing calibration standards, associated with L1206397-01 through -11, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 04/26/12

ORGANICS

VOLATILES

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-01	Date Collected:	04/10/12 17:35
Client ID:	MW-5D	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 11:07		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	5.9		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-01 Date Collected: 04/10/12 17:35

Client ID: MW-5D Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	5.7		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-01	Date Collected:	04/10/12 17:35
Client ID:	MW-5D	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-02	Date Collected:	04/10/12 17:55
Client ID:	MW-5	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 11:39		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	2.9		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-02 Date Collected: 04/10/12 17:55

Client ID: MW-5 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	4.0		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-02	Date Collected:	04/10/12 17:55
Client ID:	MW-5	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-03	Date Collected:	04/10/12 19:25
Client ID:	MW-18	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 12:11		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-03 Date Collected: 04/10/12 19:25

Client ID: MW-18 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	2.3		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-03	Date Collected:	04/10/12 19:25
Client ID:	MW-18	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-04	Date Collected:	04/10/12 20:10
Client ID:	MW-29	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 12:44		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-04 Date Collected: 04/10/12 20:10

Client ID: MW-29 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-04	Date Collected:	04/10/12 20:10
Client ID:	MW-29	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-05	Date Collected:	04/10/12 21:10
Client ID:	MW-31	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 13:16		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-05 Date Collected: 04/10/12 21:10

Client ID: MW-31 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-05	Date Collected:	04/10/12 21:10
Client ID:	MW-31	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	102		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-06	Date Collected:	04/11/12 16:55
Client ID:	MW-33	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 13:48		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-06 Date Collected: 04/11/12 16:55

Client ID: MW-33 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-06	Date Collected:	04/11/12 16:55
Client ID:	MW-33	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-07	D2	Date Collected:	04/11/12 17:15
Client ID:	MW-28		Date Received:	04/12/12
Sample Location:	NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	04/19/12 09:27			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
cis-1,2-Dichloroethene	660		ug/l	10	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-07	D	Date Collected:	04/11/12 17:15
Client ID:	MW-28		Date Received:	04/12/12
Sample Location:	NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	04/17/12 15:24			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	10	--	5
1,1-Dichloroethane	ND		ug/l	5.0	--	5
Chloroform	ND		ug/l	5.0	--	5
Carbon tetrachloride	ND		ug/l	5.0	--	5
1,2-Dichloropropane	ND		ug/l	5.0	--	5
Dibromochloromethane	ND		ug/l	5.0	--	5
1,1,2-Trichloroethane	ND		ug/l	5.0	--	5
Tetrachloroethene	ND		ug/l	5.0	--	5
Chlorobenzene	11		ug/l	5.0	--	5
Trichlorofluoromethane	ND		ug/l	10	--	5
1,2-Dichloroethane	ND		ug/l	5.0	--	5
1,1,1-Trichloroethane	ND		ug/l	5.0	--	5
Bromodichloromethane	ND		ug/l	5.0	--	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	--	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	--	5
1,1-Dichloropropene	ND		ug/l	10	--	5
Bromoform	ND		ug/l	10	--	5
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	--	5
Benzene	ND		ug/l	2.5	--	5
Toluene	ND		ug/l	5.0	--	5
Ethylbenzene	ND		ug/l	5.0	--	5
Chloromethane	ND		ug/l	10	--	5
Bromomethane	ND		ug/l	10	--	5
Vinyl chloride	130		ug/l	5.0	--	5
Chloroethane	ND		ug/l	10	--	5
1,1-Dichloroethene	ND		ug/l	5.0	--	5
trans-1,2-Dichloroethene	95		ug/l	5.0	--	5
Trichloroethene	180		ug/l	5.0	--	5
1,2-Dichlorobenzene	ND		ug/l	5.0	--	5
1,3-Dichlorobenzene	ND		ug/l	5.0	--	5
1,4-Dichlorobenzene	9.3		ug/l	5.0	--	5

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-07 D Date Collected: 04/11/12 17:15

Client ID: MW-28 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	10	--	5
p/m-Xylene	ND		ug/l	10	--	5
o-Xylene	ND		ug/l	5.0	--	5
cis-1,2-Dichloroethene	700	E	ug/l	5.0	--	5
Dibromomethane	ND		ug/l	10	--	5
1,2,3-Trichloropropane	ND		ug/l	10	--	5
Styrene	ND		ug/l	5.0	--	5
Dichlorodifluoromethane	ND		ug/l	10	--	5
Acetone	ND		ug/l	25	--	5
Carbon disulfide	ND		ug/l	10	--	5
2-Butanone	ND		ug/l	25	--	5
4-Methyl-2-pentanone	ND		ug/l	25	--	5
2-Hexanone	ND		ug/l	25	--	5
Bromochloromethane	ND		ug/l	10	--	5
Tetrahydrofuran	ND		ug/l	25	--	5
2,2-Dichloropropane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
Bromobenzene	ND		ug/l	10	--	5
n-Butylbenzene	ND		ug/l	10	--	5
sec-Butylbenzene	ND		ug/l	10	--	5
tert-Butylbenzene	ND		ug/l	10	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
1,2-Dibromo-3-chloropropane	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
Isopropylbenzene	ND		ug/l	10	--	5
p-Isopropyltoluene	ND		ug/l	10	--	5
Naphthalene	ND		ug/l	10	--	5
n-Propylbenzene	ND		ug/l	10	--	5
1,2,3-Trichlorobenzene	ND		ug/l	10	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5
1,3,5-Trimethylbenzene	ND		ug/l	10	--	5
1,2,4-Trimethylbenzene	ND		ug/l	10	--	5
Ethyl ether	ND		ug/l	10	--	5
Isopropyl Ether	ND		ug/l	10	--	5
Ethyl-Tert-Butyl-Ether	ND		ug/l	10	--	5
Tertiary-Amyl Methyl Ether	ND		ug/l	10	--	5

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-07 D Date Collected: 04/11/12 17:15

Client ID: MW-28 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	1200	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	107		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-08	Date Collected:	04/11/12 19:20
Client ID:	MW-27D	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 14:20		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-08 Date Collected: 04/11/12 19:20

Client ID: MW-27D Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-08	Date Collected:	04/11/12 19:20
Client ID:	MW-27D	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-09	D	Date Collected:	04/11/12 20:20
Client ID:	MW-32		Date Received:	04/12/12
Sample Location:	NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	04/17/12 15:56			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	4.0	--	2
1,1-Dichloroethane	ND		ug/l	2.0	--	2
Chloroform	ND		ug/l	2.0	--	2
Carbon tetrachloride	ND		ug/l	2.0	--	2
1,2-Dichloropropane	ND		ug/l	2.0	--	2
Dibromochloromethane	ND		ug/l	2.0	--	2
1,1,2-Trichloroethane	ND		ug/l	2.0	--	2
Tetrachloroethene	ND		ug/l	2.0	--	2
Chlorobenzene	ND		ug/l	2.0	--	2
Trichlorofluoromethane	ND		ug/l	4.0	--	2
1,2-Dichloroethane	ND		ug/l	2.0	--	2
1,1,1-Trichloroethane	ND		ug/l	2.0	--	2
Bromodichloromethane	ND		ug/l	2.0	--	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	--	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	--	2
1,1-Dichloropropene	ND		ug/l	4.0	--	2
Bromoform	ND		ug/l	4.0	--	2
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	--	2
Benzene	ND		ug/l	1.0	--	2
Toluene	ND		ug/l	2.0	--	2
Ethylbenzene	ND		ug/l	2.0	--	2
Chloromethane	ND		ug/l	4.0	--	2
Bromomethane	ND		ug/l	4.0	--	2
Vinyl chloride	2.0		ug/l	2.0	--	2
Chloroethane	ND		ug/l	4.0	--	2
1,1-Dichloroethene	ND		ug/l	2.0	--	2
trans-1,2-Dichloroethene	6.5		ug/l	2.0	--	2
Trichloroethene	170		ug/l	2.0	--	2
1,2-Dichlorobenzene	ND		ug/l	2.0	--	2
1,3-Dichlorobenzene	ND		ug/l	2.0	--	2
1,4-Dichlorobenzene	ND		ug/l	2.0	--	2

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-09 D Date Collected: 04/11/12 20:20

Client ID: MW-32 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	4.0	--	2
p/m-Xylene	ND		ug/l	4.0	--	2
o-Xylene	ND		ug/l	2.0	--	2
cis-1,2-Dichloroethene	190		ug/l	2.0	--	2
Dibromomethane	ND		ug/l	4.0	--	2
1,2,3-Trichloropropane	ND		ug/l	4.0	--	2
Styrene	ND		ug/l	2.0	--	2
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
Acetone	ND		ug/l	10	--	2
Carbon disulfide	ND		ug/l	4.0	--	2
2-Butanone	ND		ug/l	10	--	2
4-Methyl-2-pentanone	ND		ug/l	10	--	2
2-Hexanone	ND		ug/l	10	--	2
Bromochloromethane	ND		ug/l	4.0	--	2
Tetrahydrofuran	ND		ug/l	10	--	2
2,2-Dichloropropane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
Bromobenzene	ND		ug/l	4.0	--	2
n-Butylbenzene	ND		ug/l	4.0	--	2
sec-Butylbenzene	ND		ug/l	4.0	--	2
tert-Butylbenzene	ND		ug/l	4.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
1,2-Dibromo-3-chloropropane	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
Isopropylbenzene	ND		ug/l	4.0	--	2
p-Isopropyltoluene	ND		ug/l	4.0	--	2
Naphthalene	ND		ug/l	4.0	--	2
n-Propylbenzene	ND		ug/l	4.0	--	2
1,2,3-Trichlorobenzene	ND		ug/l	4.0	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2
1,3,5-Trimethylbenzene	ND		ug/l	4.0	--	2
1,2,4-Trimethylbenzene	ND		ug/l	4.0	--	2
Ethyl ether	ND		ug/l	4.0	--	2
Isopropyl Ether	ND		ug/l	4.0	--	2
Ethyl-Tert-Butyl-Ether	ND		ug/l	4.0	--	2
Tertiary-Amyl Methyl Ether	ND		ug/l	4.0	--	2

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-09 D Date Collected: 04/11/12 20:20

Client ID: MW-32 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	500	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-10	Date Collected:	04/11/12 00:00
Client ID:	DUP-1	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 14:52		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-10 Date Collected: 04/11/12 00:00

Client ID: DUP-1 Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-10	Date Collected:	04/11/12 00:00
Client ID:	DUP-1	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-11	Date Collected:	04/06/12 00:00
Client ID:	TRIP BLANK	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 10:03		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID: L1206397-11 Date Collected: 04/06/12 00:00

Client ID: TRIP BLANK Date Received: 04/12/12

Sample Location: NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

SAMPLE RESULTS

Lab ID:	L1206397-11	Date Collected:	04/06/12 00:00
Client ID:	TRIP BLANK	Date Received:	04/12/12
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/17/12 09:31
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-11 Batch: WG530229-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/17/12 09:31
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-11 Batch: WG530229-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/17/12 09:31
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-11 Batch: WG530229-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/19/12 08:56
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 07 Batch: WG530229-8					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/19/12 08:56
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 07 Batch: WG530229-8					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS **Lab Number:** L1206397

Project Number: 115058 **Report Date:** 04/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/19/12 08:56
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 07 Batch: WG530229-8					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-11 Batch: WG530229-1 WG530229-2								
Methylene chloride	99		98		70-130	1		20
1,1-Dichloroethane	96		94		70-130	2		20
Chloroform	93		93		70-130	0		20
Carbon tetrachloride	101		112		70-130	10		20
1,2-Dichloropropane	92		91		70-130	1		20
Dibromochloromethane	87		99		70-130	13		20
1,1,2-Trichloroethane	92		94		70-130	2		20
Tetrachloroethene	98		96		70-130	2		20
Chlorobenzene	90		91		70-130	1		20
Trichlorofluoromethane	98		100		70-130	2		20
1,2-Dichloroethane	96		97		70-130	1		20
1,1,1-Trichloroethane	92		95		70-130	3		20
Bromodichloromethane	84		89		70-130	6		20
trans-1,3-Dichloropropene	87		94		70-130	8		20
cis-1,3-Dichloropropene	88		92		70-130	4		20
1,1-Dichloropropene	96		93		70-130	3		20
Bromoform	87		98		70-130	12		20
1,1,2,2-Tetrachloroethane	87		87		70-130	0		20
Benzene	95		94		70-130	1		20
Toluene	94		94		70-130	0		20
Ethylbenzene	97		96		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-11 Batch: WG530229-1 WG530229-2								
Chloromethane	105		102		70-130	3		20
Bromomethane	106		105		70-130	1		20
Vinyl chloride	101		100		70-130	1		20
Chloroethane	99		96		70-130	3		20
1,1-Dichloroethene	96		95		70-130	1		20
trans-1,2-Dichloroethene	92		90		70-130	2		20
Trichloroethene	92		92		70-130	0		20
1,2-Dichlorobenzene	95		96		70-130	1		20
1,3-Dichlorobenzene	94		97		70-130	3		20
1,4-Dichlorobenzene	95		95		70-130	0		20
Methyl tert butyl ether	91		93		70-130	2		20
p/m-Xylene	98		98		70-130	0		20
o-Xylene	99		98		70-130	1		20
cis-1,2-Dichloroethene	92		90		70-130	2		20
Dibromomethane	90		93		70-130	3		20
1,2,3-Trichloropropane	92		92		70-130	0		20
Styrene	96		97		70-130	1		20
Dichlorodifluoromethane	106		108		70-130	2		20
Acetone	108		106		70-130	2		20
Carbon disulfide	96		93		70-130	3		20
2-Butanone	100		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-11 Batch: WG530229-1 WG530229-2								
4-Methyl-2-pentanone	87		89		70-130	2		20
2-Hexanone	93		100		70-130	7		20
Bromochloromethane	92		96		70-130	4		20
Tetrahydrofuran	92		91		70-130	1		20
2,2-Dichloropropane	101		107		70-130	6		20
1,2-Dibromoethane	86		90		70-130	5		20
1,3-Dichloropropane	92		93		70-130	1		20
1,1,1,2-Tetrachloroethane	90		102		70-130	13		20
Bromobenzene	89		89		70-130	0		20
n-Butylbenzene	92		90		70-130	2		20
sec-Butylbenzene	98		94		70-130	4		20
tert-Butylbenzene	96		93		70-130	3		20
o-Chlorotoluene	95		94		70-130	1		20
p-Chlorotoluene	92		92		70-130	0		20
1,2-Dibromo-3-chloropropane	98		109		70-130	11		20
Hexachlorobutadiene	94		90		70-130	4		20
Isopropylbenzene	99		96		70-130	3		20
p-Isopropyltoluene	97		94		70-130	3		20
Naphthalene	74		77		70-130	4		20
n-Propylbenzene	97		95		70-130	2		20
1,2,3-Trichlorobenzene	86		86		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-11 Batch: WG530229-1 WG530229-2								
1,2,4-Trichlorobenzene	85		85		70-130	0		20
1,3,5-Trimethylbenzene	97		96		70-130	1		20
1,2,4-Trimethylbenzene	92		92		70-130	0		20
Ethyl ether	89		91		70-130	2		20
Isopropyl Ether	93		94		70-130	1		20
Ethyl-Tert-Butyl-Ether	104		106		70-130	2		20
Tertiary-Amyl Methyl Ether	94		96		70-130	2		20
1,4-Dioxane	101		102		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	100		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 07 Batch: WG530229-6 WG530229-7								
Methylene chloride	97		97		70-130	0		20
1,1-Dichloroethane	97		95		70-130	2		20
Chloroform	94		93		70-130	1		20
Carbon tetrachloride	118		123		70-130	4		20
1,2-Dichloropropane	90		90		70-130	0		20
Dibromochloromethane	100		102		70-130	2		20
1,1,2-Trichloroethane	90		88		70-130	2		20
Tetrachloroethene	96		94		70-130	2		20
Chlorobenzene	87		88		70-130	1		20
Trichlorofluoromethane	99		97		70-130	2		20
1,2-Dichloroethane	98		96		70-130	2		20
1,1,1-Trichloroethane	103		100		70-130	3		20
Bromodichloromethane	92		92		70-130	0		20
trans-1,3-Dichloropropene	98		98		70-130	0		20
cis-1,3-Dichloropropene	95		95		70-130	0		20
1,1-Dichloropropene	94		94		70-130	0		20
Bromoform	102		109		70-130	7		20
1,1,2,2-Tetrachloroethane	90		91		70-130	1		20
Benzene	95		93		70-130	2		20
Toluene	92		92		70-130	0		20
Ethylbenzene	95		93		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 07 Batch: WG530229-6 WG530229-7								
Chloromethane	104		102		70-130	2		20
Bromomethane	109		106		70-130	3		20
Vinyl chloride	99		100		70-130	1		20
Chloroethane	101		96		70-130	5		20
1,1-Dichloroethene	94		95		70-130	1		20
trans-1,2-Dichloroethene	93		90		70-130	3		20
Trichloroethene	89		86		70-130	3		20
1,2-Dichlorobenzene	95		95		70-130	0		20
1,3-Dichlorobenzene	95		96		70-130	1		20
1,4-Dichlorobenzene	94		96		70-130	2		20
Methyl tert butyl ether	94		92		70-130	2		20
p/m-Xylene	97		95		70-130	2		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	91		91		70-130	0		20
Dibromomethane	93		90		70-130	3		20
1,2,3-Trichloropropane	91		93		70-130	2		20
Styrene	93		93		70-130	0		20
Dichlorodifluoromethane	102		100		70-130	2		20
Acetone	113		114		70-130	1		20
Carbon disulfide	97		94		70-130	3		20
2-Butanone	99		99		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 07 Batch: WG530229-6 WG530229-7								
4-Methyl-2-pentanone	89		84		70-130	6		20
2-Hexanone	94		92		70-130	2		20
Bromochloromethane	93		92		70-130	1		20
Tetrahydrofuran	96		89		70-130	8		20
2,2-Dichloropropane	116		118		70-130	2		20
1,2-Dibromoethane	91		91		70-130	0		20
1,3-Dichloropropane	90		89		70-130	1		20
1,1,1,2-Tetrachloroethane	101		104		70-130	3		20
Bromobenzene	88		89		70-130	1		20
n-Butylbenzene	92		90		70-130	2		20
sec-Butylbenzene	99		96		70-130	3		20
tert-Butylbenzene	96		94		70-130	2		20
o-Chlorotoluene	94		94		70-130	0		20
p-Chlorotoluene	91		92		70-130	1		20
1,2-Dibromo-3-chloropropane	111		114		70-130	3		20
Hexachlorobutadiene	94		90		70-130	4		20
Isopropylbenzene	95		94		70-130	1		20
p-Isopropyltoluene	97		95		70-130	2		20
Naphthalene	77		74		70-130	4		20
n-Propylbenzene	97		95		70-130	2		20
1,2,3-Trichlorobenzene	88		86		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 07 Batch: WG530229-6 WG530229-7								
1,2,4-Trichlorobenzene	87		85		70-130	2		20
1,3,5-Trimethylbenzene	97		96		70-130	1		20
1,2,4-Trimethylbenzene	92		91		70-130	1		20
Ethyl ether	95		91		70-130	4		20
Isopropyl Ether	94		94		70-130	0		20
Ethyl-Tert-Butyl-Ether	108		104		70-130	4		20
Tertiary-Amyl Methyl Ether	98		97		70-130	1		20
1,4-Dioxane	97		86		70-130	12		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	103		99		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG530229-4 WG530229-5 QC Sample: L1206397-01 Client ID: MW-5D												
Methylene chloride	ND	10	11	108		10	105		70-130	10		20
1,1-Dichloroethane	ND	10	10	106		10	104		70-130	0		20
Chloroform	ND	10	10	102		10	100		70-130	0		20
Carbon tetrachloride	ND	10	14	**138**	Q	15	**148**	Q	70-130	7		20
1,2-Dichloropropane	ND	10	10	100		9.8	98		70-130	2		20
Dibromochloromethane	ND	10	12	117		12	125		70-130	0		20
1,1,2-Trichloroethane	ND	10	10	102		10	102		70-130	0		20
Tetrachloroethene	ND	10	10	105		10	106		70-130	0		20
Chlorobenzene	ND	10	9.4	94		9.6	96		70-130	2		20
Trichlorofluoromethane	ND	10	12	117		11	114		70-130	9		20
1,2-Dichloroethane	ND	10	11	109		11	107		70-130	0		20
1,1,1-Trichloroethane	ND	10	11	110		11	113		70-130	0		20
Bromodichloromethane	ND	10	10	105		10	105		70-130	0		20
trans-1,3-Dichloropropene	ND	10	10	101		11	106		70-130	10		20
cis-1,3-Dichloropropene	ND	10	9.9	99		10	102		70-130	1		20
1,1-Dichloropropene	ND	10	11	108		11	106		70-130	0		20
Bromoform	ND	10	12	121		13	129		70-130	8		20
1,1,2,2-Tetrachloroethane	ND	10	10	104		10	103		70-130	0		20
Benzene	ND	10	10	103		10	101		70-130	0		20
Toluene	ND	10	10	100		10	100		70-130	0		20
Ethylbenzene	ND	10	10	101		10	102		70-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG530229-4 WG530229-5 QC Sample: L1206397-01 Client ID: MW-5D												
Chloromethane	ND	10	12	117		11	115		70-130	9		20
Bromomethane	ND	10	11	108		11	112		70-130	0		20
Vinyl chloride	ND	10	12	117		11	114		70-130	9		20
Chloroethane	ND	10	11	112		11	110		70-130	0		20
1,1-Dichloroethene	ND	10	11	110		11	106		70-130	0		20
trans-1,2-Dichloroethene	ND	10	10	105		10	104		70-130	0		20
Trichloroethene	5.9	10	17	113		15	95		70-130	13		20
1,2-Dichlorobenzene	ND	10	9.5	96		9.8	98		70-130	3		20
1,3-Dichlorobenzene	ND	10	9.4	94		9.6	96		70-130	2		20
1,4-Dichlorobenzene	ND	10	9.6	96		9.7	97		70-130	1		20
Methyl tert butyl ether	ND	10	10	103		10	104		70-130	0		20
p/m-Xylene	ND	20	21	103		21	104		70-130	0		20
o-Xylene	ND	20	21	104		21	104		70-130	0		20
cis-1,2-Dichloroethene	5.7	10	18	120		16	100		70-130	12		20
Dibromomethane	ND	10	10	105		10	103		70-130	0		20
1,2,3-Trichloropropane	ND	10	10	102		10	102		70-130	0		20
Styrene	ND	20	19	97		19	97		70-130	0		20
Dichlorodifluoromethane	ND	10	13	129		12	123		70-130	8		20
Acetone	ND	10	13	127		12	120		70-130	8		20
Carbon disulfide	ND	10	11	107		11	107		70-130	0		20
2-Butanone	ND	10	12	116		11	114		70-130	9		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058
Lab Number: L1206397
Report Date: 04/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG530229-4 WG530229-5 QC Sample: L1206397-01 Client ID: MW-5D												
4-Methyl-2-pentanone	ND	10	9.9	99		10	102		70-130	1		20
2-Hexanone	ND	10	11	109		11	110		70-130	0		20
Bromochloromethane	ND	10	10	105		10	103		70-130	0		20
Tetrahydrofuran	ND	10	12	115		12	116		70-130	0		20
2,2-Dichloropropane	ND	10	9.8	98		10	103		70-130	2		20
1,2-Dibromoethane	ND	10	10	103		10	105		70-130	0		20
1,3-Dichloropropane	ND	10	10	102		10	101		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	11	114		12	123		70-130	9		20
Bromobenzene	ND	10	9.0	90		9.0	91		70-130	0		20
n-Butylbenzene	ND	10	8.8	88		9.0	90		70-130	2		20
sec-Butylbenzene	ND	10	9.8	98		9.9	99		70-130	1		20
tert-Butylbenzene	ND	10	9.8	98		9.8	98		70-130	0		20
o-Chlorotoluene	ND	10	9.6	96		9.6	96		70-130	0		20
p-Chlorotoluene	ND	10	9.1	91		9.3	93		70-130	2		20
1,2-Dibromo-3-chloropropane	ND	10	13	130		14	**144**	Q	70-130	7		20
Hexachlorobutadiene	ND	10	8.6	86		9.0	90		70-130	5		20
Isopropylbenzene	ND	10	10	103		10	105		70-130	0		20
p-Isopropyltoluene	ND	10	9.6	96		9.6	96		70-130	0		20
Naphthalene	ND	10	7.7	77		7.8	78		70-130	1		20
n-Propylbenzene	ND	10	9.7	97		9.9	99		70-130	2		20
1,2,3-Trichlorobenzene	ND	10	8.6	86		8.6	86		70-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG530229-4 WG530229-5 QC Sample: L1206397-01 Client ID: MW-5D												
1,2,4-Trichlorobenzene	ND	10	8.3	83		8.5	85		70-130	2		20
1,3,5-Trimethylbenzene	ND	10	9.9	99		9.8	98		70-130	1		20
1,2,4-Trimethylbenzene	ND	10	9.3	93		9.2	92		70-130	1		20
Ethyl ether	ND	10	11	107		10	104		70-130	10		20
Isopropyl Ether	ND	10	10	104		10	103		70-130	0		20
Ethyl-Tert-Butyl-Ether	ND	10	10	102		11	108		70-130	10		20
Tertiary-Amyl Methyl Ether	ND	10	10	100		10	102		70-130	0		20
1,4-Dioxane	ND	1000	1300	**134**	Q	1400	**142**	Q	70-130	7		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		109		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	106		103		70-130
Toluene-d8	99		101		70-130

Project Name: NBHS
Project Number: 115058

Lab Number: L1206397
Report Date: 04/26/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1206397-01A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-01B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-01C	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-01D	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-01E	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-01F	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-02A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-02B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-03A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-03B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-04A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-04B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-05A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-05B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-06A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-06B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-07A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-07B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-08A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-08B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-09A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-09B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-10A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-10B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-11A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1206397-11B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	NBHS	**Lab Number:**	L1206397
Project Number:	115058	**Report Date:**	04/26/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS	**Lab Number:**	L1206397
Project Number:	115058	**Report Date:**	04/26/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS **Lab Number:** L1206397
Project Number: 115058 **Report Date:** 04/26/12

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 21 OF 21 EW 4/11/12

Date Rec'd in Lab: 04/12/12

ALPHA Job #: L1206397

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC Environmental
Address: 650 Suffolk St. Lowell MA 01854
Phone: 978-970-5600
Fax: 978-453-1995
Email: aleonard dsullivan @trcsolutions.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS
Project Location: New Bedford
Project #: 115058
Project Manager: Dave Sullivan
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 26TH APRIL, 2012 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: 43667

Regulatory Requirements/Report Limits

State /Fed Program: MCP Criteria: GW-2

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

Analyze trip Blanks for VOCs

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260B)	Sample Specific Comments	TOTAL # BOTTLES
06397-01	MW-5D	4/10/12	1735	GW	JR	X	* MS/MSD here	6
-02	MW-5	4/10/12	1755	GW	EW	X		2
-03	MW-18	4/10/12	1925	GW	JR	X		2
-04	MW-29	4/10/12	2010	GW	EW	X		2
-05	MW-31	4/10/12	2110	GW	JR	X		2
-06	MW-33	4/11/12	1655	GW	JR	X		2
-07	MW-28	4/11/12	1715	GW	EW	X		2
-08	MW-27D	4/11/12	1920	GW	EW	X		2
-09	MW-32	4/11/12	2020	GW	JR	X		2
-10	DUP-1	4/11/12	—	GW	—	X		2
					Container Type	V		
					Preservative	B		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Emilio Lopez	4/12/12 1200	Lee Lamm	4/12/12
Lee Lamm	4/12/12 1700	[illegible]	04/12/12 1243

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

12:15

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:04261212:58

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206397

Instrument ID: Quimby.i Calibration Date: 17-APR-2012 Time: 07:56

Lab File ID: 0417A02 Init. Calib. Date(s): 11-APR-2 11-APR-2

Sample No: Init. Calib. Times : 07:58 13:31

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.44196	.46907	.1	-6	20	
chloromethane	.45393	.47686	.1	-5	20	
vinyl chloride	.37872	.38201	.1	-1	20	
bromomethane	.24001	.25512	.1	-6	20	
chloroethane	.3237	.32015	.1	1	20	
trichlorofluoromethane	.55376	.5407	.1	2	20	
ethyl ether	.18769	.16698	.05	11	20	
acetone	100	108	.1	-8	20	
1,1,-dichloroethene	.33484	.32033	.1	4	20	
methylene chloride	.37326	.37002	.1	1	20	
carbon disulfide	.90053	.86287	.1	4	20	
methyl tert butyl ether	.72772	.66363	.1	9	20	
trans-1,2-dichloroethene	.36983	.33854	.1	8	20	
Diisopropyl Ether	1.2937	1.2074	.05	7	20	
1,1-dichloroethane	.70843	.67768	.2	4	20	
Ethyl-Tert-Butyl-Ether	.87357	.9125	.05	-4	20	
2-butanone	.08812	.08806	.1	0	20	F
2,2-dichloropropane	.28988	.29356	.05	-1	20	
cis-1,2-dichloroethene	.40182	.36796	.1	8	20	
chloroform	.64416	.59929	.2	7	20	
bromochloromethane	.15456	.1427	.05	8	20	
tetrahydrofuran	.06054	.05587	.05	8	20	
1,1,1-trichloroethane	.42346	.39128	.1	8	20	
1,1-dichloropropene	.55268	.53102	.05	4	20	
carbontetrachloride	.21839	.21995	.1	-1	20	
Tertiary-Amyl Methyl Ether	.68277	.6452	.05	6	20	
1,2-dichloroethane	.46383	.44679	.1	4	20	
benzene	1.6249	1.5471	.5	5	20	
trichloroethene	.40442	.37144	.2	8	20	
1,2-dichloropropane	.4055	.37197	.1	8	20	
bromodichloromethane	.37418	.31246	.2	16	20	
1,4-dioxane	.00194	.00196	.05	-1	20	F
dibromomethane	.16556	.14812	.05	11	20	
4-methyl-2-pentanone	.08494	.07382	.1	13	20	F
cis-1,3-dichloropropene	.41533	.36351	.2	12	20	
toluene	1.3384	1.2569	.4	6	20	
trans-1,3-dichloropropene	.35718	.31143	.1	13	20	
1,1,2-trichloroethane	.26942	.24845	.1	8	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206397

Instrument ID: Quimby.i Calibration Date: 17-APR-2012 Time: 07:56

Lab File ID: 0417A02 Init. Calib. Date(s): 11-APR-2 11-APR-2

Sample No: Init. Calib. Times : 07:58 13:31

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
2-hexanone	.17176	.15981	.1	7	20	
1,3-dichloropropane	.61526	.56769	.05	8	20	
tetrachloroethene	.52172	.51158	.2	2	20	
chlorodibromomethane	.20553	.17893	.1	13	20	
1,2-dibromoethane	.27635	.23781	.1	14	20	
chlorobenzene	1.421	1.2838	.5	10	20	
1,1,1,2-tetrachloroethane	.23619	.2125	.05	10	20	
ethyl benzene	2.6223	2.5434	.1	3	20	
p/m xylene	1.0638	1.0447	.1	2	20	
o xylene	1.0034	.99426	.3	1	20	
styrene	1.6887	1.6245	.31	4	20	
isopropylbenzene	2.5847	2.5593	.1	1	20	
bromoform	.13638	.11898	.1	13	20	
1,1,2,2,-tetrachloroethane	.55495	.48163	.3	13	20	
1,2,3-trichloropropane	.44941	.41472	.05	8	20	
n-propylbenzene	4.5143	4.3603	.05	3	20	
bromobenzene	.92706	.82793	.05	11	20	
1,3,5-trimethybenzene	3.5245	3.4260	.05	3	20	
2-chlorotoluene	3.2552	3.0811	.05	5	20	
4-chorotoluene	3.1382	2.8803	.05	8	20	
tert-butylbenzene	2.6745	2.5619	.05	4	20	
1,2,4-trimethylbenzene	3.5347	3.2409	.05	8	20	
sec-butylbenzene	3.8425	3.7651	.05	2	20	
p-isopropyltoluene	3.0895	3.0001	.05	3	20	
1,3-dichlorobenzene	1.7599	1.6612	.6	6	20	
1,4-dichlorobenzene	1.7991	1.7048	.5	5	20	
n-butylbenzene	3.3032	3.0536	.05	8	20	
1,2-dichlorobenzene	1.6153	1.5360	.4	5	20	
1,2-dibromo-3-chloropropane	100	98.296	.05	2	20	
1,2,4-trichlorobenzene	.85401	.72612	.2	15	20	
hexachlorobutadiene	.32349	.30258	.05	6	20	
naphthalene	1.5928	1.1701	.05	27	20	F
1,2,3-trichlorobenzene	.72591	.62758	.05	14	20	
dibromofluoromethane	.21111	.21059	.05	0	20	
1,2-dichloroethane-d4	.24628	.25569	.05	-4	20	
toluene-d8	1.3061	1.336	.05	-2	20	
4-bromofluorobenzene	.91859	.89197	.05	3	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206397

Instrument ID: Quimby.i Calibration Date: 19-APR-2012 Time: 07:21

Lab File ID: 0419A02 Init. Calib. Date(s): 11-APR-2 11-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:58 13:31

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.44196	.45061	.1	-2	20	
chloromethane	.45393	.47082	.1	-4	20	
vinyl chloride	.37872	.37666	.1	1	20	
bromomethane	.24001	.26204	.1	-9	20	
chloroethane	.3237	.32647	.1	-1	20	
trichlorofluoromethane	.55376	.54648	.1	1	20	
ethyl ether	.18769	.17792	.05	5	20	
acetone	100	113	.1	-13	20	
1,1,-dichloroethene	.33484	.31572	.1	6	20	
methylene chloride	.37326	.3618	.1	3	20	
carbon disulfide	.90053	.87141	.1	3	20	
methyl tert butyl ether	.72772	.68594	.1	6	20	
trans-1,2-dichloroethene	.36983	.34523	.1	7	20	
Diisopropyl Ether	1.2937	1.2187	.05	6	20	
1,1-dichloroethane	.70843	.69007	.2	3	20	
Ethyl-Tert-Butyl-Ether	.87357	.94182	.05	-8	20	
2-butanone	.08812	.08741	.1	1	20	F
2,2-dichloropropane	.28988	.33725	.05	-16	20	
cis-1,2-dichloroethene	.40182	.36649	.1	9	20	
chloroform	.64416	.60761	.2	6	20	
bromochloromethane	.15456	.14368	.05	7	20	
tetrahydrofuran	.06054	.05803	.05	4	20	
1,1,1-trichloroethane	.42346	.43461	.1	-3	20	
1,1-dichloropropene	.55268	.52109	.05	6	20	
carbontetrachloride	.21839	.25765	.1	-18	20	
Tertiary-Amyl Methyl Ether	.68277	.66778	.05	2	20	
1,2-dichloroethane	.46383	.45205	.1	3	20	
benzene	1.6249	1.5373	.5	5	20	
trichloroethene	.40442	.35912	.2	11	20	
1,2-dichloropropane	.4055	.36384	.1	10	20	
bromodichloromethane	.37418	.34289	.2	8	20	
1,4-dioxane	.00194	.00187	.05	3	20	F
dibromomethane	.16556	.15339	.05	7	20	
4-methyl-2-pentanone	.08494	.07558	.1	11	20	F
cis-1,3-dichloropropene	.41533	.39356	.2	5	20	
toluene	1.3384	1.2325	.4	8	20	
trans-1,3-dichloropropene	.35718	.35108	.1	2	20	
1,1,2-trichloroethane	.26942	.24236	.1	10	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206397

Instrument ID: Quimby.i Calibration Date: 19-APR-2012 Time: 07:21

Lab File ID: 0419A02 Init. Calib. Date(s): 11-APR-2 11-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:58 13:31

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
2-hexanone	.17176	.1608	.1	6	20	
1,3-dichloropropane	.61526	.55111	.05	10	20	
tetrachloroethene	.52172	.50157	.2	4	20	
chlorodibromomethane	.20553	.2056	.1	0	20	
1,2-dibromoethane	.27635	.25035	.1	9	20	
chlorobenzene	1.421	1.2391	.5	13	20	
1,1,1,2-tetrachloroethane	.23619	.23952	.05	-1	20	
ethyl benzene	2.6223	2.4811	.1	5	20	
p/m xylene	1.0638	1.0319	.1	3	20	
o xylene	1.0034	.95282	.3	5	20	
styrene	1.6887	1.5636	.31	7	20	
isopropylbenzene	2.5847	2.4614	.1	5	20	
bromoform	.13638	.13866	.1	-2	20	
1,1,2,2,-tetrachloroethane	.55495	.50068	.3	10	20	
1,2,3-trichloropropane	.44941	.40903	.05	9	20	
n-propylbenzene	4.5143	4.3707	.05	3	20	
bromobenzene	.92706	.81695	.05	12	20	
1,3,5-trimethybenzene	3.5245	3.4073	.05	3	20	
2-chlorotoluene	3.2552	3.0583	.05	6	20	
4-chorotoluene	3.1382	2.8480	.05	9	20	
tert-butylbenzene	2.6745	2.5692	.05	4	20	
1,2,4-trimethylbenzene	3.5347	3.2465	.05	8	20	
sec-butylbenzene	3.8425	3.8024	.05	1	20	
p-isopropyltoluene	3.0895	2.9883	.05	3	20	
1,3-dichlorobenzene	1.7599	1.678	.6	5	20	
1,4-dichlorobenzene	1.7991	1.6962	.5	6	20	
n-butylbenzene	3.3032	3.0412	.05	8	20	
1,2-dichlorobenzene	1.6153	1.5392	.4	5	20	
1,2-dibromo-3-chloropropane	100	111	.05	-11	20	
1,2,4-trichlorobenzene	.85401	.73983	.2	13	20	
hexachlorobutadiene	.32349	.3047	.05	6	20	
naphthalene	1.5928	1.2228	.05	23	20	F
1,2,3-trichlorobenzene	.72591	.63621	.05	12	20	
dibromofluoromethane	.21111	.21652	.05	-3	20	
1,2-dichloroethane-d4	.24628	.22974	.05	7	20	
toluene-d8	1.3061	1.3008	.05	0	20	
4-bromofluorobenzene	.91859	.91665	.05	0	20	

FORM VII MCP-8260-10

System Monitoring
(Aqueous Phase)

ANALYTICAL REPORT

Lab Number:	L1204720
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	Al Leonard
Phone:	(978) 656-3689
Project Name:	PSWS
Project Number:	115058
Report Date:	03/23/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1204720-01	INFLUENT	NBHS	03/20/12 15:20
L1204720-02	POST BAG FILTER	NBHS	03/20/12 15:30
L1204720-03	EFFLUENT	NBHS	03/20/12 15:40
L1204720-04	TRIP BLANK	NBHS	03/20/12 00:00

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: PSWS **Lab Number:** L1204720
Project Number: 115058 **Report Date:** 03/23/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

MCP Related Narratives

Volatile Organics

L1204720-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

L1204720-03 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

Project Name: PSWS **Lab Number:** L1204720
Project Number: 115058 **Report Date:** 03/23/12

Case Narrative (continued)

In reference to question G:
L1204720-01 and -02: The requested CAM reporting limits were not achieved for all analytes, with the exception of Vinyl chloride, trans-1,2-Dichloroethene, Trichloroethene and cis-1,2-Dichloroethene.
L1204720-03 and -04: The requested CAM reporting limit was not achieved for Tetrahydrofuran.
In reference to question H:
The WG524494-1/-2 LCS/LCSD RPD, associated with L1204720-01 and -02, is above the acceptance criteria for 1,2-Dibromo-3-chloropropane (22%).
The WG524505-1 LCS recovery, associated with L1204720-04, is above the acceptance criteria for Acetone (139%), but within the overall method allowances. The results of the associated sample are reported; however, all positive detects are considered to have a potentially high bias for this compound.
The WG524505-1/-2 LCS/LCSD RPD, associated with L1204720-04, is above the acceptance criteria for 1,2,3-Trichlorobenzene (22%).
The WG524563-1 LCS recovery, associated with L1204720-03, is above the acceptance criteria for Acetone (139%), but within the overall method allowances. The results of the associated sample are reported; however, all positive detects are considered to have a potentially high bias for this compound.
The WG524563-1/-2 LCS/LCSD RPD, associated with L1204720-03, is above the acceptance criteria for 1,2,3-Trichlorobenzene (22%).
The WG524563-5 LCSD recovery, associated with L1204720-03, is below the individual acceptance criteria for Naphthalene (68%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.
The WG524563-4/-5 LCS/LCSD RPDs, associated with L1204720-03, are above the acceptance criteria for Acetone (42%), 2-Butanone (38%), 4-Methyl-2-pentanone (22%), 2-Hexanone (25%), Tetrahydrofuran (26%) and Hexachlorobutadiene (22%).
The initial calibration, associated with L1204720-01, -02 and -03, did not meet the method required minimum response factors on the lowest calibration standards for 1,4-Dioxane (0.00345), as well as the average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Acetone.
The initial calibration, associated with L1204720-03 and -04, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-Dioxane (0.00342), as well as the average response

Project Name: PSWS **Lab Number:** L1204720
Project Number: 115058 **Report Date:** 03/23/12

Case Narrative (continued)

factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Acetone, 1,2,Dibromo-3-chloropropane, Naphthalene, 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene.
The continuing calibration standards, associated with L1204720-01 through -04, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as addenda to this report.

PCBs
L1204720-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.
In reference to question G:
L1204720-01 and -02: The requested CAM reporting limits were not achieved for all analytes, with the exception of Aroclor 1254.
In reference to question H:
The surrogate recoveries for L1204720-01 and -02 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 03/23/12

ORGANICS

VOLATILES

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-01	D	Date Collected:	03/20/12 15:20
Client ID:	INFLUENT		Date Received:	03/20/12
Sample Location:	NBHS		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	03/21/12 17:51			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	400	--	200
1,1-Dichloroethane	ND		ug/l	200	--	200
Chloroform	ND		ug/l	200	--	200
Carbon tetrachloride	ND		ug/l	200	--	200
1,2-Dichloropropane	ND		ug/l	200	--	200
Dibromochloromethane	ND		ug/l	200	--	200
1,1,2-Trichloroethane	ND		ug/l	200	--	200
Tetrachloroethene	ND		ug/l	200	--	200
Chlorobenzene	ND		ug/l	200	--	200
Trichlorofluoromethane	ND		ug/l	400	--	200
1,2-Dichloroethane	ND		ug/l	200	--	200
1,1,1-Trichloroethane	ND		ug/l	200	--	200
Bromodichloromethane	ND		ug/l	200	--	200
trans-1,3-Dichloropropene	ND		ug/l	100	--	200
cis-1,3-Dichloropropene	ND		ug/l	100	--	200
1,1-Dichloropropene	ND		ug/l	400	--	200
Bromoform	ND		ug/l	400	--	200
1,1,2,2-Tetrachloroethane	ND		ug/l	200	--	200
Benzene	ND		ug/l	100	--	200
Toluene	ND		ug/l	200	--	200
Ethylbenzene	ND		ug/l	200	--	200
Chloromethane	ND		ug/l	400	--	200
Bromomethane	ND		ug/l	400	--	200
Vinyl chloride	350		ug/l	200	--	200
Chloroethane	ND		ug/l	400	--	200
1,1-Dichloroethene	ND		ug/l	200	--	200
trans-1,2-Dichloroethene	1100		ug/l	200	--	200
Trichloroethene	19000		ug/l	200	--	200
1,2-Dichlorobenzene	ND		ug/l	200	--	200
1,3-Dichlorobenzene	ND		ug/l	200	--	200
1,4-Dichlorobenzene	ND		ug/l	200	--	200

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID: L1204720-01 D Date Collected: 03/20/12 15:20

Client ID: INFLUENT Date Received: 03/20/12

Sample Location: NBHS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	400	--	200
p/m-Xylene	ND		ug/l	400	--	200
o-Xylene	ND		ug/l	200	--	200
cis-1,2-Dichloroethene	3300		ug/l	200	--	200
Dibromomethane	ND		ug/l	400	--	200
1,2,3-Trichloropropane	ND		ug/l	400	--	200
Styrene	ND		ug/l	200	--	200
Dichlorodifluoromethane	ND		ug/l	400	--	200
Acetone	ND		ug/l	1000	--	200
Carbon disulfide	ND		ug/l	400	--	200
2-Butanone	ND		ug/l	1000	--	200
4-Methyl-2-pentanone	ND		ug/l	1000	--	200
2-Hexanone	ND		ug/l	1000	--	200
Bromochloromethane	ND		ug/l	400	--	200
Tetrahydrofuran	ND		ug/l	1000	--	200
2,2-Dichloropropane	ND		ug/l	400	--	200
1,2-Dibromoethane	ND		ug/l	400	--	200
1,3-Dichloropropane	ND		ug/l	400	--	200
1,1,1,2-Tetrachloroethane	ND		ug/l	200	--	200
Bromobenzene	ND		ug/l	400	--	200
n-Butylbenzene	ND		ug/l	400	--	200
sec-Butylbenzene	ND		ug/l	400	--	200
tert-Butylbenzene	ND		ug/l	400	--	200
o-Chlorotoluene	ND		ug/l	400	--	200
p-Chlorotoluene	ND		ug/l	400	--	200
1,2-Dibromo-3-chloropropane	ND		ug/l	400	--	200
Hexachlorobutadiene	ND		ug/l	120	--	200
Isopropylbenzene	ND		ug/l	400	--	200
p-Isopropyltoluene	ND		ug/l	400	--	200
Naphthalene	ND		ug/l	400	--	200
n-Propylbenzene	ND		ug/l	400	--	200
1,2,3-Trichlorobenzene	ND		ug/l	400	--	200
1,2,4-Trichlorobenzene	ND		ug/l	400	--	200
1,3,5-Trimethylbenzene	ND		ug/l	400	--	200
1,2,4-Trimethylbenzene	ND		ug/l	400	--	200
Ethyl ether	ND		ug/l	400	--	200
Isopropyl Ether	ND		ug/l	400	--	200
Ethyl-Tert-Butyl-Ether	ND		ug/l	400	--	200
Tertiary-Amyl Methyl Ether	ND		ug/l	400	--	200

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-01	D	Date Collected:	03/20/12 15:20
Client ID:	INFLUENT		Date Received:	03/20/12
Sample Location:	NBHS		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	50000	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-02	D	Date Collected:	03/20/12 15:30
Client ID:	POST BAG FILTER		Date Received:	03/20/12
Sample Location:	NBHS		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	03/21/12 18:24			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	400	--	200
1,1-Dichloroethane	ND		ug/l	200	--	200
Chloroform	ND		ug/l	200	--	200
Carbon tetrachloride	ND		ug/l	200	--	200
1,2-Dichloropropane	ND		ug/l	200	--	200
Dibromochloromethane	ND		ug/l	200	--	200
1,1,2-Trichloroethane	ND		ug/l	200	--	200
Tetrachloroethene	ND		ug/l	200	--	200
Chlorobenzene	ND		ug/l	200	--	200
Trichlorofluoromethane	ND		ug/l	400	--	200
1,2-Dichloroethane	ND		ug/l	200	--	200
1,1,1-Trichloroethane	ND		ug/l	200	--	200
Bromodichloromethane	ND		ug/l	200	--	200
trans-1,3-Dichloropropene	ND		ug/l	100	--	200
cis-1,3-Dichloropropene	ND		ug/l	100	--	200
1,1-Dichloropropene	ND		ug/l	400	--	200
Bromoform	ND		ug/l	400	--	200
1,1,2,2-Tetrachloroethane	ND		ug/l	200	--	200
Benzene	ND		ug/l	100	--	200
Toluene	ND		ug/l	200	--	200
Ethylbenzene	ND		ug/l	200	--	200
Chloromethane	ND		ug/l	400	--	200
Bromomethane	ND		ug/l	400	--	200
Vinyl chloride	280		ug/l	200	--	200
Chloroethane	ND		ug/l	400	--	200
1,1-Dichloroethene	ND		ug/l	200	--	200
trans-1,2-Dichloroethene	810		ug/l	200	--	200
Trichloroethene	15000		ug/l	200	--	200
1,2-Dichlorobenzene	ND		ug/l	200	--	200
1,3-Dichlorobenzene	ND		ug/l	200	--	200
1,4-Dichlorobenzene	ND		ug/l	200	--	200

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID: L1204720-02 D Date Collected: 03/20/12 15:30

Client ID: POST BAG FILTER Date Received: 03/20/12

Sample Location: NBHS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	400	--	200
p/m-Xylene	ND		ug/l	400	--	200
o-Xylene	ND		ug/l	200	--	200
cis-1,2-Dichloroethene	3000		ug/l	200	--	200
Dibromomethane	ND		ug/l	400	--	200
1,2,3-Trichloropropane	ND		ug/l	400	--	200
Styrene	ND		ug/l	200	--	200
Dichlorodifluoromethane	ND		ug/l	400	--	200
Acetone	ND		ug/l	1000	--	200
Carbon disulfide	ND		ug/l	400	--	200
2-Butanone	ND		ug/l	1000	--	200
4-Methyl-2-pentanone	ND		ug/l	1000	--	200
2-Hexanone	ND		ug/l	1000	--	200
Bromochloromethane	ND		ug/l	400	--	200
Tetrahydrofuran	ND		ug/l	1000	--	200
2,2-Dichloropropane	ND		ug/l	400	--	200
1,2-Dibromoethane	ND		ug/l	400	--	200
1,3-Dichloropropane	ND		ug/l	400	--	200
1,1,1,2-Tetrachloroethane	ND		ug/l	200	--	200
Bromobenzene	ND		ug/l	400	--	200
n-Butylbenzene	ND		ug/l	400	--	200
sec-Butylbenzene	ND		ug/l	400	--	200
tert-Butylbenzene	ND		ug/l	400	--	200
o-Chlorotoluene	ND		ug/l	400	--	200
p-Chlorotoluene	ND		ug/l	400	--	200
1,2-Dibromo-3-chloropropane	ND		ug/l	400	--	200
Hexachlorobutadiene	ND		ug/l	120	--	200
Isopropylbenzene	ND		ug/l	400	--	200
p-Isopropyltoluene	ND		ug/l	400	--	200
Naphthalene	ND		ug/l	400	--	200
n-Propylbenzene	ND		ug/l	400	--	200
1,2,3-Trichlorobenzene	ND		ug/l	400	--	200
1,2,4-Trichlorobenzene	ND		ug/l	400	--	200
1,3,5-Trimethylbenzene	ND		ug/l	400	--	200
1,2,4-Trimethylbenzene	ND		ug/l	400	--	200
Ethyl ether	ND		ug/l	400	--	200
Isopropyl Ether	ND		ug/l	400	--	200
Ethyl-Tert-Butyl-Ether	ND		ug/l	400	--	200
Tertiary-Amyl Methyl Ether	ND		ug/l	400	--	200

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID: L1204720-02 D Date Collected: 03/20/12 15:30

Client ID: POST BAG FILTER Date Received: 03/20/12

Sample Location: NBHS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	50000	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	107		70-130

Project Name: PSWS
Project Number: 115058
Lab Number: L1204720
Report Date: 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-03	Date Collected:	03/20/12 15:40
Client ID:	EFFLUENT	Date Received:	03/20/12
Sample Location:	NBHS	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/21/12 18:40		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID: L1204720-03 Date Collected: 03/20/12 15:40

Client ID: EFFLUENT Date Received: 03/20/12

Sample Location: NBHS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	120	E	ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	6.8		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	11		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-03	Date Collected:	03/20/12 15:40
Client ID:	EFFLUENT	Date Received:	03/20/12
Sample Location:	NBHS	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	115		70-130

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-03	D	Date Collected:	03/20/12 15:40
Client ID:	EFFLUENT		Date Received:	03/20/12
Sample Location:	NBHS		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	03/22/12 09:35			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Acetone	98		ug/l	25	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-04	Date Collected:	03/20/12 00:00
Client ID:	TRIP BLANK	Date Received:	03/20/12
Sample Location:	NBHS	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/21/12 09:26		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID: L1204720-04 Date Collected: 03/20/12 00:00

Client ID: TRIP BLANK Date Received: 03/20/12

Sample Location: NBHS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-04	Date Collected:	03/20/12 00:00
Client ID:	TRIP BLANK	Date Received:	03/20/12
Sample Location:	NBHS	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	112		70-130

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 09:10
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG524494-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 09:10
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG524494-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 09:10
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG524494-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 08:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04 Batch: WG524505-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 08:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04 Batch: WG524505-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 08:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04 Batch: WG524505-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	109		70-130

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 08:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03 Batch: WG524563-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 08:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03 Batch: WG524563-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/21/12 08:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03 Batch: WG524563-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	109		70-130

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/22/12 08:30
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03 Batch: WG524563-6					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/22/12 08:30
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03 Batch: WG524563-6					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/22/12 08:30
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03 Batch: WG524563-6					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG524494-1 WG524494-2								
Methylene chloride	103		109		70-130	6		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	101		104		70-130	3		20
Carbon tetrachloride	105		105		70-130	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	99		110		70-130	11		20
1,1,2-Trichloroethane	98		107		70-130	9		20
Tetrachloroethene	103		101		70-130	2		20
Chlorobenzene	95		102		70-130	7		20
Trichlorofluoromethane	94		94		70-130	0		20
1,2-Dichloroethane	98		102		70-130	4		20
1,1,1-Trichloroethane	101		100		70-130	1		20
Bromodichloromethane	100		106		70-130	6		20
trans-1,3-Dichloropropene	92		100		70-130	8		20
cis-1,3-Dichloropropene	96		100		70-130	4		20
1,1-Dichloropropene	103		102		70-130	1		20
Bromoform	86		99		70-130	14		20
1,1,2,2-Tetrachloroethane	95		101		70-130	6		20
Benzene	103		103		70-130	0		20
Toluene	96		97		70-130	1		20
Ethylbenzene	98		103		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG524494-1 WG524494-2								
Chloromethane	82		84		70-130	2		20
Bromomethane	88		87		70-130	1		20
Vinyl chloride	92		93		70-130	1		20
Chloroethane	96		94		70-130	2		20
1,1-Dichloroethene	89		90		70-130	1		20
trans-1,2-Dichloroethene	104		102		70-130	2		20
Trichloroethene	101		102		70-130	1		20
1,2-Dichlorobenzene	95		104		70-130	9		20
1,3-Dichlorobenzene	94		106		70-130	12		20
1,4-Dichlorobenzene	94		103		70-130	9		20
Methyl tert butyl ether	84		88		70-130	5		20
p/m-Xylene	99		105		70-130	6		20
o-Xylene	96		101		70-130	5		20
cis-1,2-Dichloroethene	102		104		70-130	2		20
Dibromomethane	108		113		70-130	5		20
1,2,3-Trichloropropane	92		103		70-130	11		20
Styrene	96		99		70-130	3		20
Dichlorodifluoromethane	82		81		70-130	1		20
Acetone	104		120		70-130	14		20
Carbon disulfide	86		87		70-130	1		20
2-Butanone	90		103		70-130	13		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG524494-1 WG524494-2								
4-Methyl-2-pentanone	92		99		70-130	7		20
2-Hexanone	84		92		70-130	9		20
Bromochloromethane	106		107		70-130	1		20
Tetrahydrofuran	84		92		70-130	9		20
2,2-Dichloropropane	99		100		70-130	1		20
1,2-Dibromoethane	96		110		70-130	14		20
1,3-Dichloropropane	96		105		70-130	9		20
1,1,1,2-Tetrachloroethane	97		104		70-130	7		20
Bromobenzene	95		107		70-130	12		20
n-Butylbenzene	95		103		70-130	8		20
sec-Butylbenzene	92		100		70-130	8		20
tert-Butylbenzene	93		100		70-130	7		20
o-Chlorotoluene	90		98		70-130	9		20
p-Chlorotoluene	93		103		70-130	10		20
1,2-Dibromo-3-chloropropane	86		107		70-130	**22**	Q	20
Hexachlorobutadiene	102		114		70-130	11		20
Isopropylbenzene	98		103		70-130	5		20
p-Isopropyltoluene	96		105		70-130	9		20
Naphthalene	84		98		70-130	15		20
n-Propylbenzene	94		103		70-130	9		20
1,2,3-Trichlorobenzene	88		103		70-130	16		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG524494-1 WG524494-2								
1,2,4-Trichlorobenzene	91		104		70-130	13		20
1,3,5-Trimethylbenzene	93		101		70-130	8		20
1,2,4-Trimethylbenzene	96		104		70-130	8		20
Ethyl ether	82		85		70-130	4		20
Isopropyl Ether	89		88		70-130	1		20
Ethyl-Tert-Butyl-Ether	90		90		70-130	0		20
Tertiary-Amyl Methyl Ether	88		91		70-130	3		20
1,4-Dioxane	102		109		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		95		70-130
Toluene-d8	98		95		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04 Batch: WG524505-1 WG524505-2								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	98		93		70-130	5		20
Chloroform	100		98		70-130	2		20
Carbon tetrachloride	97		98		70-130	1		20
1,2-Dichloropropane	95		96		70-130	1		20
Dibromochloromethane	89		93		70-130	4		20
1,1,2-Trichloroethane	91		96		70-130	5		20
Tetrachloroethene	102		98		70-130	4		20
Chlorobenzene	92		93		70-130	1		20
Trichlorofluoromethane	85		86		70-130	1		20
1,2-Dichloroethane	102		98		70-130	4		20
1,1,1-Trichloroethane	95		95		70-130	0		20
Bromodichloromethane	96		97		70-130	1		20
trans-1,3-Dichloropropene	84		88		70-130	5		20
cis-1,3-Dichloropropene	90		88		70-130	2		20
1,1-Dichloropropene	94		94		70-130	0		20
Bromoform	82		87		70-130	6		20
1,1,2,2-Tetrachloroethane	102		106		70-130	4		20
Benzene	99		96		70-130	3		20
Toluene	92		94		70-130	2		20
Ethylbenzene	95		94		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04 Batch: WG524505-1 WG524505-2								
Chloromethane	85		81		70-130	5		20
Bromomethane	94		97		70-130	3		20
Vinyl chloride	83		83		70-130	0		20
Chloroethane	82		82		70-130	0		20
1,1-Dichloroethene	80		81		70-130	1		20
trans-1,2-Dichloroethene	101		95		70-130	6		20
Trichloroethene	99		94		70-130	5		20
1,2-Dichlorobenzene	96		102		70-130	6		20
1,3-Dichlorobenzene	95		100		70-130	5		20
1,4-Dichlorobenzene	93		100		70-130	7		20
Methyl tert butyl ether	88		84		70-130	5		20
p/m-Xylene	98		96		70-130	2		20
o-Xylene	93		95		70-130	2		20
cis-1,2-Dichloroethene	102		98		70-130	4		20
Dibromomethane	110		106		70-130	4		20
1,2,3-Trichloropropane	99		100		70-130	1		20
Styrene	93		94		70-130	1		20
Dichlorodifluoromethane	78		76		70-130	3		20
Acetone	**139**	Q	117		70-130	17		20
Carbon disulfide	76		80		70-130	5		20
2-Butanone	114		97		70-130	16		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04 Batch: WG524505-1 WG524505-2								
4-Methyl-2-pentanone	97		93		70-130	4		20
2-Hexanone	90		81		70-130	11		20
Bromochloromethane	110		105		70-130	5		20
Tetrahydrofuran	95		85		70-130	11		20
2,2-Dichloropropane	96		94		70-130	2		20
1,2-Dibromoethane	94		95		70-130	1		20
1,3-Dichloropropane	93		93		70-130	0		20
1,1,1,2-Tetrachloroethane	91		97		70-130	6		20
Bromobenzene	95		104		70-130	9		20
n-Butylbenzene	98		97		70-130	1		20
sec-Butylbenzene	96		96		70-130	0		20
tert-Butylbenzene	96		97		70-130	1		20
o-Chlorotoluene	89		95		70-130	7		20
p-Chlorotoluene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	93		105		70-130	12		20
Hexachlorobutadiene	96		114		70-130	17		20
Isopropylbenzene	97		92		70-130	5		20
p-Isopropyltoluene	99		98		70-130	1		20
Naphthalene	83		100		70-130	19		20
n-Propylbenzene	97		97		70-130	0		20
1,2,3-Trichlorobenzene	87		109		70-130	**22**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04 Batch: WG524505-1 WG524505-2								
1,2,4-Trichlorobenzene	92		104		70-130	12		20
1,3,5-Trimethylbenzene	93		96		70-130	3		20
1,2,4-Trimethylbenzene	95		101		70-130	6		20
Ethyl ether	83		79		70-130	5		20
Isopropyl Ether	84		83		70-130	1		20
Ethyl-Tert-Butyl-Ether	86		86		70-130	0		20
Tertiary-Amyl Methyl Ether	88		85		70-130	3		20
1,4-Dioxane	102		98		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		92		70-130
Toluene-d8	94		97		70-130
4-Bromofluorobenzene	93		104		70-130
Dibromofluoromethane	105		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG524563-1 WG524563-2								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	98		93		70-130	5		20
Chloroform	100		98		70-130	2		20
Carbon tetrachloride	97		98		70-130	1		20
1,2-Dichloropropane	95		96		70-130	1		20
Dibromochloromethane	89		93		70-130	4		20
1,1,2-Trichloroethane	91		96		70-130	5		20
Tetrachloroethene	102		98		70-130	4		20
Chlorobenzene	92		93		70-130	1		20
Trichlorofluoromethane	85		86		70-130	1		20
1,2-Dichloroethane	102		98		70-130	4		20
1,1,1-Trichloroethane	95		95		70-130	0		20
Bromodichloromethane	96		97		70-130	1		20
trans-1,3-Dichloropropene	84		88		70-130	5		20
cis-1,3-Dichloropropene	90		88		70-130	2		20
1,1-Dichloropropene	94		94		70-130	0		20
Bromoform	82		87		70-130	6		20
1,1,2,2-Tetrachloroethane	102		106		70-130	4		20
Benzene	99		96		70-130	3		20
Toluene	92		94		70-130	2		20
Ethylbenzene	95		94		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG524563-1 WG524563-2								
Chloromethane	85		81		70-130	5		20
Bromomethane	94		97		70-130	3		20
Vinyl chloride	83		83		70-130	0		20
Chloroethane	82		82		70-130	0		20
1,1-Dichloroethene	80		81		70-130	1		20
trans-1,2-Dichloroethene	101		95		70-130	6		20
Trichloroethene	99		94		70-130	5		20
1,2-Dichlorobenzene	96		102		70-130	6		20
1,3-Dichlorobenzene	95		100		70-130	5		20
1,4-Dichlorobenzene	93		100		70-130	7		20
Methyl tert butyl ether	88		84		70-130	5		20
p/m-Xylene	98		96		70-130	2		20
o-Xylene	93		95		70-130	2		20
cis-1,2-Dichloroethene	102		98		70-130	4		20
Dibromomethane	110		106		70-130	4		20
1,2,3-Trichloropropane	99		100		70-130	1		20
Styrene	93		94		70-130	1		20
Dichlorodifluoromethane	78		76		70-130	3		20
Acetone	**139**	Q	117		70-130	17		20
Carbon disulfide	76		80		70-130	5		20
2-Butanone	114		97		70-130	16		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG524563-1 WG524563-2								
4-Methyl-2-pentanone	97		93		70-130	4		20
2-Hexanone	90		81		70-130	11		20
Bromochloromethane	110		105		70-130	5		20
Tetrahydrofuran	95		85		70-130	11		20
2,2-Dichloropropane	96		94		70-130	2		20
1,2-Dibromoethane	94		95		70-130	1		20
1,3-Dichloropropane	93		93		70-130	0		20
1,1,1,2-Tetrachloroethane	91		97		70-130	6		20
Bromobenzene	95		104		70-130	9		20
n-Butylbenzene	98		97		70-130	1		20
sec-Butylbenzene	96		96		70-130	0		20
tert-Butylbenzene	96		97		70-130	1		20
o-Chlorotoluene	89		95		70-130	7		20
p-Chlorotoluene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	93		105		70-130	12		20
Hexachlorobutadiene	96		114		70-130	17		20
Isopropylbenzene	97		92		70-130	5		20
p-Isopropyltoluene	99		98		70-130	1		20
Naphthalene	83		100		70-130	19		20
n-Propylbenzene	97		97		70-130	0		20
1,2,3-Trichlorobenzene	87		109		70-130	**22**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG524563-1 WG524563-2								
1,2,4-Trichlorobenzene	92		104		70-130	12		20
1,3,5-Trimethylbenzene	93		96		70-130	3		20
1,2,4-Trimethylbenzene	95		101		70-130	6		20
Ethyl ether	83		79		70-130	5		20
Isopropyl Ether	84		83		70-130	1		20
Ethyl-Tert-Butyl-Ether	86		86		70-130	0		20
Tertiary-Amyl Methyl Ether	88		85		70-130	3		20
1,4-Dioxane	102		98		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		92		70-130
Toluene-d8	94		97		70-130
4-Bromofluorobenzene	93		104		70-130
Dibromofluoromethane	105		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG524563-4 WG524563-5								
Methylene chloride	99		95		70-130	4		20
1,1-Dichloroethane	96		93		70-130	5		20
Chloroform	100		91		70-130	9		20
Carbon tetrachloride	97		91		70-130	6		20
1,2-Dichloropropane	100		92		70-130	3		20
Dibromochloromethane	109		85		70-130	5		20
1,1,2-Trichloroethane	105		88		70-130	3		20
Tetrachloroethene	95		88		70-130	15		20
Chlorobenzene	97		90		70-130	2		20
Trichlorofluoromethane	87		84		70-130	1		20
1,2-Dichloroethane	101		90		70-130	13		20
1,1,1-Trichloroethane	97		91		70-130	4		20
Bromodichloromethane	102		87		70-130	10		20
trans-1,3-Dichloropropene	97		80		70-130	5		20
cis-1,3-Dichloropropene	95		84		70-130	7		20
1,1-Dichloropropene	96		92		70-130	2		20
Bromoform	94		82		70-130	0		20
1,1,2,2-Tetrachloroethane	107		91		70-130	11		20
Benzene	98		95		70-130	4		20
Toluene	94		86		70-130	7		20
Ethylbenzene	98		89		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG524563-4 WG524563-5								
Chloromethane	81		79		70-130	7		20
Bromomethane	87		87		70-130	8		20
Vinyl chloride	89		86		70-130	4		20
Chloroethane	90		85		70-130	4		20
1,1-Dichloroethene	84		80		70-130	0		20
trans-1,2-Dichloroethene	99		94		70-130	7		20
Trichloroethene	102		92		70-130	7		20
1,2-Dichlorobenzene	102		96		70-130	0		20
1,3-Dichlorobenzene	102		100		70-130	5		20
1,4-Dichlorobenzene	101		95		70-130	2		20
Methyl tert butyl ether	88		79		70-130	11		20
p/m-Xylene	96		88		70-130	11		20
o-Xylene	99		92		70-130	1		20
cis-1,2-Dichloroethene	102		94		70-130	8		20
Dibromomethane	106		99		70-130	11		20
1,2,3-Trichloropropane	104		94		70-130	5		20
Styrene	99		92		70-130	1		20
Dichlorodifluoromethane	81		79		70-130	1		20
Acetone	103		91		70-130	**42**	Q	20
Carbon disulfide	79		75		70-130	1		20
2-Butanone	98		78		70-130	**38**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG524563-4 WG524563-5								
4-Methyl-2-pentanone	91		78		70-130	**22**	Q	20
2-Hexanone	86		70		70-130	**25**	Q	20
Bromochloromethane	104		98		70-130	12		20
Tetrahydrofuran	94		73		70-130	**26**	Q	20
2,2-Dichloropropane	92		88		70-130	9		20
1,2-Dibromoethane	103		86		70-130	9		20
1,3-Dichloropropane	103		87		70-130	7		20
1,1,1,2-Tetrachloroethane	103		86		70-130	6		20
Bromobenzene	104		99		70-130	4		20
n-Butylbenzene	96		97		70-130	1		20
sec-Butylbenzene	90		91		70-130	5		20
tert-Butylbenzene	93		93		70-130	3		20
o-Chlorotoluene	95		96		70-130	8		20
p-Chlorotoluene	100		96		70-130	3		20
1,2-Dibromo-3-chloropropane	104		84		70-130	10		20
Hexachlorobutadiene	93		120		70-130	**22**	Q	20
Isopropylbenzene	95		86		70-130	12		20
p-Isopropyltoluene	96		98		70-130	1		20
Naphthalene	85		**68**	Q	70-130	20		20
n-Propylbenzene	97		94		70-130	3		20
1,2,3-Trichlorobenzene	89		79		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG524563-4 WG524563-5								
1,2,4-Trichlorobenzene	93		84		70-130	9		20
1,3,5-Trimethylbenzene	96		94		70-130	1		20
1,2,4-Trimethylbenzene	99		99		70-130	4		20
Ethyl ether	84		75		70-130	10		20
Isopropyl Ether	90		88		70-130	5		20
Ethyl-Tert-Butyl-Ether	91		86		70-130	0		20
Tertiary-Amyl Methyl Ether	93		83		70-130	6		20
1,4-Dioxane	98		93		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		90		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	103		106		70-130
Dibromofluoromethane	105		104		70-130

PCBS

Project Name: PSWS
Project Number: 115058
Lab Number: L1204720
Report Date: 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-01	D	Date Collected:	03/20/12 15:20
Client ID:	INFLUENT		Date Received:	03/20/12
Sample Location:	NBHS		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	97,8082		Extraction Date:	03/21/12 00:33
Analytical Date:	03/22/12 23:50		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	03/21/12
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	03/21/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	250	--	1000
Aroclor 1221	ND		ug/l	250	--	1000
Aroclor 1232	ND		ug/l	250	--	1000
Aroclor 1242	ND		ug/l	250	--	1000
Aroclor 1248	ND		ug/l	250	--	1000
Aroclor 1254	5120		ug/l	250	--	1000
Aroclor 1260	ND		ug/l	250	--	1000
Aroclor 1262	ND		ug/l	250	--	1000
Aroclor 1268	ND		ug/l	250	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-02	D	Date Collected:	03/20/12 15:30
Client ID:	POST BAG FILTER		Date Received:	03/20/12
Sample Location:	NBHS		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	97,8082		Extraction Date:	03/21/12 00:33
Analytical Date:	03/22/12 23:32		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	03/21/12
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	03/21/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	12.5	--	50
Aroclor 1221	ND		ug/l	12.5	--	50
Aroclor 1232	ND		ug/l	12.5	--	50
Aroclor 1242	ND		ug/l	12.5	--	50
Aroclor 1248	ND		ug/l	12.5	--	50
Aroclor 1260	ND		ug/l	12.5	--	50
Aroclor 1262	ND		ug/l	12.5	--	50
Aroclor 1268	ND		ug/l	12.5	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: PSWS **Lab Number:** L1204720

Project Number: 115058 **Report Date:** 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-02	D	Date Collected:	03/20/12 15:30
Client ID:	POST BAG FILTER		Date Received:	03/20/12
Sample Location:	NBHS		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	97,8082		Extraction Date:	03/21/12 00:33
Analytical Date:	03/22/12 23:32		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	03/21/12
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	03/21/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	165		ug/l	12.5	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

SAMPLE RESULTS

Lab ID:	L1204720-03	Date Collected:	03/20/12 15:40
Client ID:	EFFLUENT	Date Received:	03/20/12
Sample Location:	NBHS	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	03/21/12 00:33
Analytical Date:	03/22/12 00:25	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	03/21/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	03/21/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	91		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	81		30-150

Project Name: PSWS

Project Number: 115058

Lab Number: L1204720

Report Date: 03/23/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 03/22/12 00:38
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 03/21/12 00:33
Cleanup Method1: EPA 3665A
Cleanup Date1: 03/21/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 03/21/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-03 Batch: WG524193-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--
Aroclor 1262	ND		ug/l	0.250	--
Aroclor 1268	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	113		30-150
2,4,5,6-Tetrachloro-m-xylene	87		30-150
Decachlorobiphenyl	95		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: PSWS

Project Number: 115058

Lab Number: L1204720

Report Date: 03/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-03 Batch: WG524193-2 WG524193-3								
Aroclor 1016	75		76		40-140	0		20
Aroclor 1260	81		77		40-140	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		70		30-150
Decachlorobiphenyl	101		100		30-150
2,4,5,6-Tetrachloro-m-xylene	82		77		30-150
Decachlorobiphenyl	85		86		30-150

Project Name: PSWS
Project Number: 115058

Lab Number: L1204720
Report Date: 03/23/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1204720-01A	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1204720-01B	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1204720-01C	Amber 1000ml unpreserved	A	7	3.0	Y	Absent	MCP-8082-10(365)
L1204720-01D	Amber 1000ml unpreserved	A	7	3.0	Y	Absent	MCP-8082-10(365)
L1204720-02A	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1204720-02B	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1204720-02C	Amber 1000ml unpreserved	A	7	3.0	Y	Absent	MCP-8082-10(365)
L1204720-02D	Amber 1000ml unpreserved	A	7	3.0	Y	Absent	MCP-8082-10(365)
L1204720-03A	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1204720-03B	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1204720-03C	Amber 1000ml unpreserved	A	7	3.0	Y	Absent	MCP-8082-10(365)
L1204720-03D	Amber 1000ml unpreserved	A	7	3.0	Y	Absent	MCP-8082-10(365)
L1204720-04A	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	PSWS	**Lab Number:**	L1204720
Project Number:	115058	**Report Date:**	03/23/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	PSWS	**Lab Number:**	L1204720
Project Number:	115058	**Report Date:**	03/23/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: PSWS **Lab Number:** L1204720
Project Number: 115058 **Report Date:** 03/23/12

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 3/20/12

ALPHA Job #: L1204720

Client Information

Client: TRC

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978 970 5600

Fax:

Email: ALEONARD@TRCSOLUTIONS.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PSWS

Project Location: NBHS

Project #: 115058

Project Manager: DAVID SULLIVAN AL LEONARD

ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!)

Date Due: 3/23 Time: 17:00

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	PCBs	Sample Specific Comments	TOTAL # BOTTLES
4720 -01	INFLUENT	3/20	15:20	I	JF	✓	✓	PID 300-500	4
-02	POST BAG FILTER	3/20	15:30	X1	JF	✓	✓	PID 300-500	4
-03	EFFLUENT	3/20	15:40	E	JF	✓	✓	PID ND	4
-04	TRIP BLANK	—	—			✓			1

Container Type	✓	A
Preservative	B	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	3/20/12 17:	[illegible]	3/20/12 17:10
[illegible]	3/20/12 17:15	[illegible]	3/20/12 17:15
[illegible]	3/20/12 1850	[illegible]	3/20/12 1850

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:03231215:33

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 21-MAR-2012 Time: 07:17

Lab File ID: 0321A02 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:40 16:56

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.75774	.58854	.1	22	20	F
chloromethane	.981	.83014	.1	15	20	
vinyl chloride	.86792	.721	.1	17	20	
bromomethane	.40127	.37585	.1	6	20	
chloroethane	.57121	.46981	.1	18	20	
trichlorofluoromethane	1.2511	1.0596	.1	15	20	
ethyl ether	.36627	.30411	.05	17	20	
1,1,-dichloroethene	.75203	.60288	.1	20	20	
carbon disulfide	1.7267	1.3178	.1	24	20	F
freon-113	.74913	.61289	.1	18	20	
iodomethane	100	76.253	.05	24	20	F
acrolien	.08615	.05073	.05	41	20	F
methylene chloride	.68284	.67534	.1	1	20	
acetone	100	139	.1	-39	20	F
trans-1,2-dichloroethene	.68986	.69828	.1	-1	20	
methyl acetate	.39168	.39712	.1	-1	20	
methyl tert butyl ether	1.3895	1.2183	.1	12	20	
Diisopropyl Ether	2.1622	1.8077	.01	16	20	
tert butyl alcohol	.04152	.03751	.05	10	20	F
1,1-dichloroethane	1.2404	1.2109	.2	2	20	
Halothane	.50217	.49358	.05	2	20	
Ethyl-Tert-Butyl-Ether	1.6927	1.4501	.05	14	20	
vinyl acetate	.95642	1.0555	.05	-10	20	
acrylonitrile	.17795	.16705	.05	6	20	
cis-1,2-dichloroethene	.72607	.73747	.1	-2	20	
2,2-dichloropropane	.95864	.91703	.05	4	20	
bromochloromethane	.32785	.3603	.05	-10	20	
chloroform	1.1843	1.1878	.2	0	20	
carbontetrachloride	.88538	.86192	.1	3	20	
ethyl acetate	.48627	.45025	.05	7	20	
tetrahydrofuran	.17983	.17008	.05	5	20	
1,1,1-trichloroethane	1.0883	1.0354	.1	5	20	
1,1-dichloropropene	.88631	.83706	.05	6	20	
2-butanone	.20461	.2326	.1	-14	20	
benzene	2.5092	2.4796	.5	1	20	
Tertiary-Amyl Methyl Ether	1.3127	1.1495	.05	12	20	
1,2-dichloroethane	.83175	.84477	.1	-2	20	
trichloroethene	.68277	.67611	.2	1	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 21-MAR-2012 Time: 07:17

Lab File ID: 0321A02 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:40 16:56

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dibromomethane	.35912	.39511	.05	-10	20	
1,2-dichloropropane	.62131	.59104	.1	5	20	
bromodichloromethane	.76389	.73395	.2	4	20	
1,4-dioxane	.00295	.00302	.05	-2	20	F
cis-1,3-dichloropropene	.86757	.78262	.2	10	20	
toluene	2.0239	1.8718	.4	8	20	
2-chloroethylvinyl ether	.27501	.26545	.05	3	20	
tetrachloroethene	.83742	.85785	.2	-2	20	
4-methyl-2-pentanone	.1365	.13272	.1	3	20	
trans-1,3-dichloropropene	.84023	.7072	.1	16	20	
1,1,2-trichloroethane	.44897	.40805	.1	9	20	
chlorodibromomethane	.61439	.54631	.1	11	20	
1,3-dichloropropane	.93	.86234	.05	7	20	
1,2-dibromoethane	.54039	.50966	.1	6	20	
2-hexanone	.32337	.2908	.1	10	20	
chlorobenzene	2.2109	2.0302	.5	8	20	
ethyl benzene	3.6441	3.4510	.1	5	20	
1,1,1,2-tetrachloroethane	.66429	.60525	.05	9	20	
p/m xylene	1.5281	1.4945	.1	2	20	
o xylene	1.4766	1.3683	.3	7	20	
bromoform	.60817	.49573	.1	18	20	
styrene	2.4262	2.2457	.3	7	20	
isopropylbenzene	3.4848	3.3956	.1	3	20	
bromobenzene	1.6170	1.5340	.05	5	20	
n-propylbenzene	6.5933	6.3950	.05	3	20	
1,1,2,2,-tetrachloroethane	.9847	1.0061	.3	-2	20	
4-ethyltoluene	5.7871	4.8071	.05	17	20	
2-chlorotoluene	4.8622	4.3264	.05	11	20	
1,2,3-trichloropropane	.85584	.84379	.05	1	20	
1,3,5-trimethybenzene	4.9455	4.5802	.05	7	20	
trans-1,4-dichloro-2-butene	.31656	.23578	.05	26	20	F
4-chorotoluene	4.3776	4.0745	.05	7	20	
tert-butylbenzene	3.9095	3.7392	.05	4	20	
1,2,4-trimethylbenzene	4.9242	4.6852	.05	5	20	
sec-butylbenzene	5.2772	5.0600	.01	4	20	
p-isopropyltoluene	4.4814	4.4470	.05	1	20	
1,3-dichlorobenzene	2.9267	2.7933	.6	5	20	
1,4-dichlorobenzene	2.9709	2.7659	.5	7	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 21-MAR-2012 Time: 07:17

Lab File ID: 0321A02 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:40 16:56

Compound	RRF	RRF	MIN RRF	%D	MAX %D
p-diethylbenzene	2.5255	2.1232	.05	16	20
n-butylbenzene	3.4107	3.3577	.05	2	20
1,2-dichlorobenzene	2.6387	2.5415	.4	4	20
1,2,4,5-tetramethylbenzene	3.6084	2.9137	.05	19	20
1,2-dibromo-3-chloropropane	100	93.239	.05	7	20
1,3,5-trichlorobenzene	.67226	.63173	.05	6	20
1,2,4-trichlorobenzene	100	91.545	.2	8	20
hexachlorobutadiene	.44433	.42607	.05	4	20
naphthalene	100	83.122	.05	17	20
1,2,3-trichlorobenzene	100	87.337	.05	13	20
dibromofluoromethane	.27371	.28666	.05	-5	20
1,2-dichloroethane-d4	.29757	.28801	.05	3	20
toluene-d8	1.2500	1.1799	.01	6	20
4-bromofluorobenzene	.85006	.79204	.05	7	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 22-MAR-2012 Time: 06:53

Lab File ID: 0322A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.67235	.54507	.1	19	20	
chloromethane	.81628	.6627	.1	19	20	
vinyl chloride	.75023	.67023	.1	11	20	
bromomethane	.42326	.3685	.1	13	20	
chloroethane	.47256	.42778	.1	9	20	
trichlorofluoromethane	1.1038	.95766	.1	13	20	
ethyl ether	.35236	.29556	.05	16	20	
1,1,-dichloroethene	.66272	.55578	.1	16	20	
carbon disulfide	1.4976	1.1818	.1	21	20	F
methylene chloride	.63572	.63171	.1	1	20	
acetone	100	103	.1	-3	20	
trans-1,2-dichloroethene	.63223	.62468	.1	1	20	
methyl tert butyl ether	1.5212	1.3328	.1	12	20	
Diisopropyl Ether	2.3850	2.1410	.01	10	20	
1,1-dichloroethane	1.1494	1.1065	.2	4	20	
Halothane	.47799	.47819	.05	0	20	
Ethyl-Tert-Butyl-Ether	1.9424	1.7647	.05	9	20	
vinyl acetate	1.1540	1.2367	.05	-7	20	
cis-1,2-dichloroethene	.677	.68822	.1	-2	20	
2,2-dichloropropane	.90978	.84026	.05	8	20	
bromochloromethane	.3184	.33285	.05	-5	20	
chloroform	1.1139	1.1096	.2	0	20	
carbontetrachloride	.82818	.8065	.1	3	20	
tetrahydrofuran	.19128	.18046	.05	6	20	
1,1,1-trichloroethane	1.0199	.98663	.1	3	20	
1,1-dichloropropene	.88498	.84571	.05	4	20	
2-butanone	.22584	.22159	.1	2	20	
benzene	2.5798	2.5317	.5	2	20	
Tertiary-Amyl Methyl Ether	1.5282	1.4217	.05	7	20	
1,2-dichloroethane	.80808	.81366	.1	-1	20	
trichloroethene	.69645	.7134	.2	-2	20	
dibromomethane	.31577	.33633	.05	-7	20	
1,2-dichloropropane	.64211	.64265	.1	0	20	
bromodichloromethane	.75952	.77165	.2	-2	20	
1,4-dioxane	.0035	.00341	.05	3	20	F
2-chloroethylvinyl ether	.34182	.30631	.05	10	20	
cis-1,3-dichloropropene	.92073	.87886	.2	5	20	
toluene	2.1136	1.9899	.4	6	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 22-MAR-2012 Time: 06:53

Lab File ID: 0322A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D
tetrachloroethene	.88878	.84775	.2	5	20
4-methyl-2-pentanone	.16538	.15047	.1	9	20
trans-1,3-dichloropropene	.93189	.90695	.1	3	20
1,1,2-trichloroethane	.48873	.51299	.1	-5	20
chlorodibromomethane	.63071	.6855	.1	-9	20
1,3-dichloropropane	1.0199	1.0492	.05	-3	20
1,2-dibromoethane	.59853	.61691	.1	-3	20
2-hexanone	.40068	.34516	.1	14	20
chlorobenzene	2.2806	2.2163	.5	3	20
ethyl benzene	3.7380	3.6791	.1	2	20
1,1,1,2-tetrachloroethane	.75205	.77795	.05	-3	20
p/m xylene	1.5508	1.4935	.1	4	20
o xylene	1.4966	1.4859	.3	1	20
styrene	2.4820	2.4621	.3	1	20
bromoform	.69352	.65009	.1	6	20
isopropylbenzene	3.5110	3.3479	.1	5	20
bromobenzene	1.7120	1.7755	.05	-4	20
n-propylbenzene	6.6982	6.4682	.05	3	20
1,1,2,2,-tetrachloroethane	1.1880	1.2684	.3	-7	20
2-chlorotoluene	4.9745	4.7425	.05	5	20
1,2,3-trichloropropane	.9793	1.0222	.05	-4	20
1,3,5-trimethybenzene	4.8855	4.7149	.05	3	20
4-chorotoluene	4.4701	4.4875	.05	0	20
tert-butylbenzene	3.9586	3.6847	.05	7	20
1,2,4-trimethylbenzene	4.9164	4.8837	.05	1	20
sec-butylbenzene	5.2118	4.7168	.01	9	20
p-isopropyltoluene	4.3474	4.1882	.05	4	20
1,3-dichlorobenzene	2.9126	2.9674	.6	-2	20
1,4-dichlorobenzene	2.9892	3.0134	.5	-1	20
n-butylbenzene	3.2747	3.1344	.05	4	20
1,2-dichlorobenzene	2.7074	2.7535	.4	-2	20
1,2-dibromo-3-chloropropane	.13443	.13971	.05	-4	20
hexachlorobutadiene	.40073	.37199	.05	7	20
1,2,4-trichlorobenzene	.9608	.89632	.2	7	20
naphthalene	1.8668	1.5829	.05	15	20
1,2,3-trichlorobenzene	.62003	.55127	.05	11	20
dibromofluoromethane	.24783	.25986	.05	-5	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 22-MAR-2012 Time: 06:53

Lab File ID: 0322A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
1,2-dichloroethane-d4	.27528	.26039	.05	5	20
toluene-d8	1.2495	1.1969	.01	4	20
4-bromofluorobenzene	.86036	.88328	.05	-3	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 21-MAR-2012 Time: 07:33

Lab File ID: 0321A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.67235	.55014	.1	18	20	
chloromethane	.81628	.67259	.1	18	20	
vinyl chloride	.75023	.69134	.1	8	20	
bromomethane	.42326	.37249	.1	12	20	
chloroethane	.47256	.45236	.1	4	20	
trichlorofluoromethane	1.1038	1.0341	.1	6	20	
ethyl ether	.35236	.28801	.05	18	20	
1,1,-dichloroethene	.66272	.59014	.1	11	20	
carbon disulfide	1.4976	1.2912	.1	14	20	
methylene chloride	.63572	.65323	.1	-3	20	
acetone	100	104	.1	-4	20	
trans-1,2-dichloroethene	.63223	.65952	.1	-4	20	
methyl tert butyl ether	1.5212	1.2758	.1	16	20	
Diisopropyl Ether	2.3850	2.1168	.01	11	20	
1,1-dichloroethane	1.1494	1.1475	.2	0	20	
Halothane	.47799	.50181	.05	-5	20	
Ethyl-Tert-Butyl-Ether	1.9424	1.7528	.05	10	20	
vinyl acetate	1.1540	1.2409	.05	-8	20	
cis-1,2-dichloroethene	.677	.69275	.1	-2	20	
2,2-dichloropropane	.90978	.89793	.05	1	20	
bromochloromethane	.3184	.33874	.05	-6	20	
chloroform	1.1139	1.1251	.2	-1	20	
carbontetrachloride	.82818	.8725	.1	-5	20	
tetrahydrofuran	.19128	.1609	.05	16	20	
1,1,1-trichloroethane	1.0199	1.0309	.1	-1	20	
1,1-dichloropropene	.88498	.9093	.05	-3	20	
2-butanone	.22584	.20229	.1	10	20	
benzene	2.5798	2.6508	.5	-3	20	
Tertiary-Amyl Methyl Ether	1.5282	1.3516	.05	12	20	
1,2-dichloroethane	.80808	.79235	.1	2	20	
trichloroethene	.69645	.70577	.2	-1	20	
dibromomethane	.31577	.3415	.05	-8	20	
1,2-dichloropropane	.64211	.64201	.1	0	20	
bromodichloromethane	.75952	.75802	.2	0	20	
1,4-dioxane	.0035	.00356	.05	-2	20	F
2-chloroethylvinyl ether	.34182	.31911	.05	7	20	
cis-1,3-dichloropropene	.92073	.88073	.2	4	20	
toluene	2.1136	2.0285	.4	4	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 21-MAR-2012 Time: 07:33

Lab File ID: 0321A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
tetrachloroethene	.88878	.91882	.2	-3	20
4-methyl-2-pentanone	.16538	.15208	.1	8	20
trans-1,3-dichloropropene	.93189	.85821	.1	8	20
1,1,2-trichloroethane	.48873	.48056	.1	2	20
chlorodibromomethane	.63071	.62648	.1	1	20
1,3-dichloropropane	1.0199	.97527	.05	4	20
1,2-dibromoethane	.59853	.57291	.1	4	20
2-hexanone	.40068	.33465	.1	16	20
chlorobenzene	2.2806	2.1757	.5	5	20
ethyl benzene	3.7380	3.6776	.1	2	20
1,1,1,2-tetrachloroethane	.75205	.72994	.05	3	20
p/m xylene	1.5508	1.5286	.1	1	20
o xylene	1.4966	1.4369	.3	4	20
styrene	2.4820	2.3828	.3	4	20
bromoform	.69352	.59867	.1	14	20
isopropylbenzene	3.5110	3.4505	.1	2	20
bromobenzene	1.7120	1.6291	.05	5	20
n-propylbenzene	6.6982	6.3102	.05	6	20
1,1,2,2,-tetrachloroethane	1.1880	1.1258	.3	5	20
2-chlorotoluene	4.9745	4.4692	.05	10	20
1,2,3-trichloropropane	.9793	.90343	.05	8	20
1,3,5-trimethybenzene	4.8855	4.5411	.05	7	20
4-chorotoluene	4.4701	4.1743	.05	7	20
tert-butylbenzene	3.9586	3.6943	.05	7	20
1,2,4-trimethylbenzene	4.9164	4.7091	.05	4	20
sec-butylbenzene	5.2118	4.8110	.01	8	20
p-isopropyltoluene	4.3474	4.1916	.05	4	20
1,3-dichlorobenzene	2.9126	2.7536	.6	5	20
1,4-dichlorobenzene	2.9892	2.8230	.5	6	20
n-butylbenzene	3.2747	3.1047	.05	5	20
1,2-dichlorobenzene	2.7074	2.5629	.4	5	20
1,2-dibromo-3-chloropropane	.13443	.11617	.05	14	20
hexachlorobutadiene	.40073	.40743	.05	-2	20
1,2,4-trichlorobenzene	.9608	.87409	.2	9	20
naphthalene	1.8668	1.5646	.05	16	20
1,2,3-trichlorobenzene	.62003	.5482	.05	12	20
dibromofluoromethane	.24783	.25152	.05	-1	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204720

Instrument ID: Jack.i Calibration Date: 21-MAR-2012 Time: 07:33

Lab File ID: 0321A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
1,2-dichloroethane-d4	.27528	.26906	.05	2	20
toluene-d8	1.2495	1.2187	.01	2	20
4-bromofluorobenzene	.86036	.82724	.05	4	20

FORM VII MCP-8260-10

ANALYTICAL REPORT

Lab Number:	L1205257
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	04/04/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205257
Report Date: 04/04/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1205257-01	INFLUENT	NEW BEDFORD, MA	03/27/12 14:00
L1205257-02	PRE BAG FILTER	NEW BEDFORD, MA	03/27/12 15:45
L1205257-03	POST CLAY BED	NEW BEDFORD, MA	03/27/12 15:50
L1205257-04	INTRA CARBON BED	NEW BEDFORD, MA	03/27/12 15:55
L1205257-05	EFFLUENT	NEW BEDFORD, MA	03/27/12 16:00
L1205257-06	TRIP BLANK	NEW BEDFORD, MA	03/27/12 00:00

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205257
Report Date: 04/04/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

MCP Related Narratives

Volatile Organics

L1205257-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Project Name: NBHS IRA **Lab Number:** L1205257
Project Number: 115058 **Report Date:** 04/04/12

Case Narrative (continued)

In reference to question G:
L1205257-01: The requested CAM reporting limits were not achieved for all compounds, with the exception of Vinyl chloride, trans-1,2-Dichloroethene, Trichloroethene and cis-1,2-Dichloroethene.
L1205257-04, -05 and -06: The requested CAM reporting limit was not achieved for Tetrahydrofuran.
In reference to question H:
The WG526481-1/-2 LCS/LCSD recoveries, associated with L1205257-01, -04, -05 and -06, are outside the individual acceptance criteria for several compounds, but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially high bias for Hexachlorobutadiene (LCSD at 131%) and a potentially low bias for Chloroethane (LCS at 68%), Carbon disulfide (56%/57%) and Ethyl ether (67%/67%).
The initial calibration, associated with L1205257-01, -04, -05 and -06, did not meet the method required minimum response factors on the lowest calibration standards for 1,4-Dioxane (0.00345), as well as the average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Acetone.
The continuing calibration standard, associated with L1205257-01, -04, -05 and -06, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

PCBs
L1205257-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.
In reference to question G:
L1205257-01 and -02: The requested CAM reporting limits were not achieved for all analytes, with the exception of Aroclor 1254.
In reference to question H:
The surrogate recoveries for L1205257-01 and -02 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 04/04/12

ORGANICS

VOLATILES

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-01 D	Date Collected:	03/27/12 14:00
Client ID:	INFLUENT	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/30/12 16:06		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	500	--	250
1,1-Dichloroethane	ND		ug/l	250	--	250
Chloroform	ND		ug/l	250	--	250
Carbon tetrachloride	ND		ug/l	250	--	250
1,2-Dichloropropane	ND		ug/l	250	--	250
Dibromochloromethane	ND		ug/l	250	--	250
1,1,2-Trichloroethane	ND		ug/l	250	--	250
Tetrachloroethene	ND		ug/l	250	--	250
Chlorobenzene	ND		ug/l	250	--	250
Trichlorofluoromethane	ND		ug/l	500	--	250
1,2-Dichloroethane	ND		ug/l	250	--	250
1,1,1-Trichloroethane	ND		ug/l	250	--	250
Bromodichloromethane	ND		ug/l	250	--	250
trans-1,3-Dichloropropene	ND		ug/l	120	--	250
cis-1,3-Dichloropropene	ND		ug/l	120	--	250
1,1-Dichloropropene	ND		ug/l	500	--	250
Bromoform	ND		ug/l	500	--	250
1,1,2,2-Tetrachloroethane	ND		ug/l	250	--	250
Benzene	ND		ug/l	120	--	250
Toluene	ND		ug/l	250	--	250
Ethylbenzene	ND		ug/l	250	--	250
Chloromethane	ND		ug/l	500	--	250
Bromomethane	ND		ug/l	500	--	250
Vinyl chloride	320		ug/l	250	--	250
Chloroethane	ND		ug/l	500	--	250
1,1-Dichloroethene	ND		ug/l	250	--	250
trans-1,2-Dichloroethene	460		ug/l	250	--	250
Trichloroethene	24000		ug/l	250	--	250
1,2-Dichlorobenzene	ND		ug/l	250	--	250
1,3-Dichlorobenzene	ND		ug/l	250	--	250
1,4-Dichlorobenzene	ND		ug/l	250	--	250

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID: L1205257-01 D Date Collected: 03/27/12 14:00

Client ID: INFLUENT Date Received: 03/28/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	500	--	250
p/m-Xylene	ND		ug/l	500	--	250
o-Xylene	ND		ug/l	250	--	250
cis-1,2-Dichloroethene	1600		ug/l	250	--	250
Dibromomethane	ND		ug/l	500	--	250
1,2,3-Trichloropropane	ND		ug/l	500	--	250
Styrene	ND		ug/l	250	--	250
Dichlorodifluoromethane	ND		ug/l	500	--	250
Acetone	ND		ug/l	1200	--	250
Carbon disulfide	ND		ug/l	500	--	250
2-Butanone	ND		ug/l	1200	--	250
4-Methyl-2-pentanone	ND		ug/l	1200	--	250
2-Hexanone	ND		ug/l	1200	--	250
Bromochloromethane	ND		ug/l	500	--	250
Tetrahydrofuran	ND		ug/l	1200	--	250
2,2-Dichloropropane	ND		ug/l	500	--	250
1,2-Dibromoethane	ND		ug/l	500	--	250
1,3-Dichloropropane	ND		ug/l	500	--	250
1,1,1,2-Tetrachloroethane	ND		ug/l	250	--	250
Bromobenzene	ND		ug/l	500	--	250
n-Butylbenzene	ND		ug/l	500	--	250
sec-Butylbenzene	ND		ug/l	500	--	250
tert-Butylbenzene	ND		ug/l	500	--	250
o-Chlorotoluene	ND		ug/l	500	--	250
p-Chlorotoluene	ND		ug/l	500	--	250
1,2-Dibromo-3-chloropropane	ND		ug/l	500	--	250
Hexachlorobutadiene	ND		ug/l	150	--	250
Isopropylbenzene	ND		ug/l	500	--	250
p-Isopropyltoluene	ND		ug/l	500	--	250
Naphthalene	ND		ug/l	500	--	250
n-Propylbenzene	ND		ug/l	500	--	250
1,2,3-Trichlorobenzene	ND		ug/l	500	--	250
1,2,4-Trichlorobenzene	ND		ug/l	500	--	250
1,3,5-Trimethylbenzene	ND		ug/l	500	--	250
1,2,4-Trimethylbenzene	ND		ug/l	500	--	250
Ethyl ether	ND		ug/l	500	--	250
Isopropyl Ether	ND		ug/l	500	--	250
Ethyl-Tert-Butyl-Ether	ND		ug/l	500	--	250
Tertiary-Amyl Methyl Ether	ND		ug/l	500	--	250

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID: L1205257-01 D Date Collected: 03/27/12 14:00

Client ID: INFLUENT Date Received: 03/28/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	62000	--	250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	102		70-130

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-04	Date Collected:	03/27/12 15:55
Client ID:	INTRA CARBON BED	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/30/12 15:33		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID: L1205257-04 Date Collected: 03/27/12 15:55

Client ID: INTRA CARBON BED Date Received: 03/28/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	8.2		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-04	Date Collected:	03/27/12 15:55
Client ID:	INTRA CARBON BED	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	97		70-130

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-05	Date Collected:	03/27/12 16:00
Client ID:	EFFLUENT	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/30/12 15:01		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID: L1205257-05 Date Collected: 03/27/12 16:00

Client ID: EFFLUENT Date Received: 03/28/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	17		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	14		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-05	Date Collected:	03/27/12 16:00
Client ID:	EFFLUENT	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205257
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-06	Date Collected:	03/27/12 00:00
Client ID:	TRIP BLANK	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	03/30/12 14:28		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID: L1205257-06 Date Collected: 03/27/12 00:00

Client ID: TRIP BLANK Date Received: 03/28/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-06	Date Collected:	03/27/12 00:00
Client ID:	TRIP BLANK	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/30/12 09:36
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,04-06 Batch: WG526481-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/30/12 09:36
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,04-06 Batch: WG526481-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205257
Report Date: 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 03/30/12 09:36
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,04-06 Batch: WG526481-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205257
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,04-06 Batch: WG526481-1 WG526481-2								
Methylene chloride	107		111		70-130	4		20
1,1-Dichloroethane	107		108		70-130	1		20
Chloroform	108		113		70-130	5		20
Carbon tetrachloride	106		107		70-130	1		20
1,2-Dichloropropane	111		114		70-130	3		20
Dibromochloromethane	104		110		70-130	6		20
1,1,2-Trichloroethane	104		112		70-130	7		20
Tetrachloroethene	104		107		70-130	3		20
Chlorobenzene	101		105		70-130	4		20
Trichlorofluoromethane	71		73		70-130	3		20
1,2-Dichloroethane	102		105		70-130	3		20
1,1,1-Trichloroethane	104		106		70-130	2		20
Bromodichloromethane	109		112		70-130	3		20
trans-1,3-Dichloropropene	101		109		70-130	8		20
cis-1,3-Dichloropropene	108		112		70-130	4		20
1,1-Dichloropropene	106		109		70-130	3		20
Bromoform	90		103		70-130	13		20
1,1,2,2-Tetrachloroethane	94		102		70-130	8		20
Benzene	110		112		70-130	2		20
Toluene	99		104		70-130	5		20
Ethylbenzene	101		106		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205257
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,04-06 Batch: WG526481-1 WG526481-2								
Chloromethane	96		97		70-130	1		20
Bromomethane	85		72		70-130	17		20
Vinyl chloride	87		89		70-130	2		20
Chloroethane	**68**	Q	70		70-130	3		20
1,1-Dichloroethene	74		74		70-130	0		20
trans-1,2-Dichloroethene	107		112		70-130	5		20
Trichloroethene	109		110		70-130	1		20
1,2-Dichlorobenzene	98		108		70-130	10		20
1,3-Dichlorobenzene	99		108		70-130	9		20
1,4-Dichlorobenzene	97		106		70-130	9		20
Methyl tert butyl ether	92		97		70-130	5		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	96		100		70-130	4		20
cis-1,2-Dichloroethene	113		113		70-130	0		20
Dibromomethane	112		118		70-130	5		20
1,2,3-Trichloropropane	95		103		70-130	8		20
Styrene	93		98		70-130	5		20
Dichlorodifluoromethane	87		90		70-130	3		20
Acetone	98		104		70-130	6		20
Carbon disulfide	**56**	Q	**57**	Q	70-130	2		20
2-Butanone	92		91		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205257
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,04-06 Batch: WG526481-1 WG526481-2								
4-Methyl-2-pentanone	95		96		70-130	1		20
2-Hexanone	85		90		70-130	6		20
Bromochloromethane	112		113		70-130	1		20
Tetrahydrofuran	91		94		70-130	3		20
2,2-Dichloropropane	104		104		70-130	0		20
1,2-Dibromoethane	103		109		70-130	6		20
1,3-Dichloropropane	104		108		70-130	4		20
1,1,1,2-Tetrachloroethane	101		108		70-130	7		20
Bromobenzene	103		112		70-130	8		20
n-Butylbenzene	97		100		70-130	3		20
sec-Butylbenzene	92		99		70-130	7		20
tert-Butylbenzene	94		101		70-130	7		20
o-Chlorotoluene	94		103		70-130	9		20
p-Chlorotoluene	97		105		70-130	8		20
1,2-Dibromo-3-chloropropane	94		101		70-130	7		20
Hexachlorobutadiene	118		**131**	Q	70-130	10		20
Isopropylbenzene	94		96		70-130	2		20
p-Isopropyltoluene	98		105		70-130	7		20
Naphthalene	82		99		70-130	19		20
n-Propylbenzene	94		103		70-130	9		20
1,2,3-Trichlorobenzene	93		113		70-130	19		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205257
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,04-06 Batch: WG526481-1 WG526481-2								
1,2,4-Trichlorobenzene	102		108		70-130	6		20
1,3,5-Trimethylbenzene	96		103		70-130	7		20
1,2,4-Trimethylbenzene	100		107		70-130	7		20
Ethyl ether	**67**	Q	**67**	Q	70-130	0		20
Isopropyl Ether	95		99		70-130	4		20
Ethyl-Tert-Butyl-Ether	96		98		70-130	2		20
Tertiary-Amyl Methyl Ether	97		99		70-130	2		20
1,4-Dioxane	91		95		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		85		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	98		109		70-130
Dibromofluoromethane	99		98		70-130

PCBS

Project Name: NBHS IRA **Lab Number:** L1205257

Project Number: 115058 **Report Date:** 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-01	D	Date Collected:	03/27/12 14:00
Client ID:	INFLUENT		Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	97,8082		Extraction Date:	03/30/12 08:56
Analytical Date:	04/03/12 14:17		Cleanup Method1:	EPA 3665A
Analyst:	SS		Cleanup Date1:	03/31/12
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	03/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	5.00	--	20
Aroclor 1221	ND		ug/l	5.00	--	20
Aroclor 1232	ND		ug/l	5.00	--	20
Aroclor 1242	ND		ug/l	5.00	--	20
Aroclor 1248	ND		ug/l	5.00	--	20
Aroclor 1254	75.9		ug/l	5.00	--	20
Aroclor 1260	ND		ug/l	5.00	--	20
Aroclor 1262	ND		ug/l	5.00	--	20
Aroclor 1268	ND		ug/l	5.00	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205257
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-02 D	Date Collected:	03/27/12 15:45
Client ID:	PRE BAG FILTER	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	03/30/12 08:56
Analytical Date:	04/03/12 14:31	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	03/31/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	03/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	12.5	--	50
Aroclor 1221	ND		ug/l	12.5	--	50
Aroclor 1232	ND		ug/l	12.5	--	50
Aroclor 1242	ND		ug/l	12.5	--	50
Aroclor 1248	ND		ug/l	12.5	--	50
Aroclor 1254	278		ug/l	12.5	--	50
Aroclor 1260	ND		ug/l	12.5	--	50
Aroclor 1262	ND		ug/l	12.5	--	50
Aroclor 1268	ND		ug/l	12.5	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205257
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-03	Date Collected:	03/27/12 15:50
Client ID:	POST CLAY BED	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	03/30/12 08:56
Analytical Date:	04/01/12 21:21	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	03/31/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	03/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	2.80		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	48		30-150
Decachlorobiphenyl	41		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	45		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205257
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID:	L1205257-05	Date Collected:	03/27/12 16:00
Client ID:	EFFLUENT	Date Received:	03/28/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	03/30/12 08:56
Analytical Date:	04/01/12 21:33	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	03/31/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	03/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	42		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	43		30-150

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1205257

Report Date: 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 04/01/12 20:20
Analyst: SS

Extraction Method: EPA 3510C
Extraction Date: 03/30/12 08:56
Cleanup Method1: EPA 3665A
Cleanup Date1: 03/31/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 03/31/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-03,05 Batch: WG526114-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--
Aroclor 1262	ND		ug/l	0.250	--
Aroclor 1268	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	39		30-150
2,4,5,6-Tetrachloro-m-xylene	54		30-150
Decachlorobiphenyl	45		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1205257

Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-03,05 Batch: WG526114-2 WG526114-3								
Aroclor 1016	74		78		40-140	6		20
Aroclor 1260	64		71		40-140	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		58		30-150
Decachlorobiphenyl	45		45		30-150
2,4,5,6-Tetrachloro-m-xylene	53		50		30-150
Decachlorobiphenyl	49		50		30-150

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205257
Report Date: 04/04/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1205257-01A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1205257-01B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1205257-01C	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	MCP-8082-10(365)
L1205257-01D	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	MCP-8082-10(365)
L1205257-02A	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	MCP-8082-10(365)
L1205257-02B	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	MCP-8082-10(365)
L1205257-03A	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	MCP-8082-10(365)
L1205257-03B	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	MCP-8082-10(365)
L1205257-04A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1205257-04B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1205257-05A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1205257-05B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1205257-05C	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	MCP-8082-10(365)
L1205257-05D	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	MCP-8082-10(365)
L1205257-06A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1205257
Project Number:	115058	**Report Date:**	04/04/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS IRA	**Lab Number:**	L1205257
Project Number:	115058	**Report Date:**	04/04/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205257
Report Date: 04/04/12

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 3/28/12

ALPHA Job #: L1205257

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978 970 5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM
ALGONARD@ " " " "

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD MA
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/4/12 Time: COB.

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	PCBs	Sample Specific Comments	Total # Bottles
05257.1	INFLUENT	3/27/12	14:00	L	JT	✓	✓	1453 ppm PID.	4
2	PRE BAG FILTER	3/27/12	15:45	WW	JT		✓	~1000 ppm PID	2
3	POST CLAY BED	3/27/12	15:50	WW	JT		✓		2
4	INTRA CARBON BED	3/27/12	15:55	WW	JT	✓			2
5	EFFLUENT	3/27/12	16:00	E	JT	✓	✓	0 ppm PID	4
6	TRIP BLANK	—	—			✓			1

Container Type	V	A
Preservative	B	A

Relinquished By:	Date/Time	Received By:	Date/Time
Jason C. Fiero	3/28/12	P. Gilbert	3/28/12 1010
P. Gilbert	3/28/12	[signature]	3/28/12 14:55
[signature]	3/28/12 17:50	[signature]	3/28/12 1750

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

Serial_No:04041214:30

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205257

Instrument ID: Jack.i Calibration Date: 30-MAR-2012 Time: 07:58

Lab File ID: 0330A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.67235	.5859	.1	13	20	
chloromethane	.81628	.78409	.1	4	20	
vinyl chloride	.75023	.65083	.1	13	20	
bromomethane	.42326	.35806	.1	15	20	
chloroethane	.47256	.32315	.1	32	20	F
trichlorofluoromethane	1.1038	.78744	.1	29	20	F
ethyl ether	.35236	.23521	.05	33	20	F
1,1,-dichloroethene	.66272	.48905	.1	26	20	F
carbon disulfide	1.4976	.83654	.1	44	20	F
methylene chloride	.63572	.68029	.1	-7	20	
acetone	100	98.083	.1	2	20	
trans-1,2-dichloroethene	.63223	.67949	.1	-7	20	
methyl tert butyl ether	1.5212	1.3996	.1	8	20	
Ethyl-Tert-Butyl-Ether	1.9424	1.8642	.05	4	20	
Diisopropyl Ether	2.3850	2.2720	.01	5	20	
1,1-dichloroethane	1.1494	1.2258	.2	-7	20	
cis-1,2-dichloroethene	.677	.76471	.1	-13	20	
2,2-dichloropropane	.90978	.95099	.05	-5	20	
bromochloromethane	.3184	.357	.05	-12	20	
chloroform	1.1139	1.1976	.2	-8	20	
carbontetrachloride	.82818	.88143	.1	-6	20	
tetrahydrofuran	.19128	.17353	.05	9	20	
1,1,1-trichloroethane	1.0199	1.0622	.1	-4	20	
Tertiary-Amyl Methyl Ether	1.5282	1.4781	.05	3	20	
1,1-dichloropropene	.88498	.93899	.05	-6	20	
2-butanone	.22584	.20856	.1	8	20	
benzene	2.5798	2.8317	.5	-10	20	
1,2-dichloroethane	.80808	.8263	.1	-2	20	
trichloroethene	.69645	.75944	.2	-9	20	
dibromomethane	.31577	.35452	.05	-12	20	
1,2-dichloropropane	.64211	.71425	.1	-11	20	
bromodichloromethane	.75952	.82835	.2	-9	20	
1,4-dioxane	.0035	.0032	.05	9	20	F
cis-1,3-dichloropropene	.92073	.99768	.2	-8	20	
toluene	2.1136	2.0901	.4	1	20	
tetrachloroethene	.88878	.92078	.2	-4	20	
4-methyl-2-pentanone	.16538	.15662	.1	5	20	
trans-1,3-dichloropropene	.93189	.93762	.1	-1	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205257

Instrument ID: Jack.i Calibration Date: 30-MAR-2012 Time: 07:58

Lab File ID: 0330A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.48873	.5079	.1	-4	20
chlorodibromomethane	.63071	.65297	.1	-4	20
1,3-dichloropropane	1.0199	1.0653	.05	-4	20
1,2-dibromoethane	.59853	.61733	.1	-3	20
2-hexanone	.40068	.34049	.1	15	20
chlorobenzene	2.2806	2.3057	.5	-1	20
ethyl benzene	3.7380	3.7786	.1	-1	20
1,1,1,2-tetrachloroethane	.75205	.75727	.05	-1	20
p/m xylene	1.5508	1.4716	.1	5	20
o xylene	1.4966	1.4319	.3	4	20
styrene	2.4820	2.2979	.3	7	20
bromoform	.69352	.62391	.1	10	20
isopropylbenzene	3.5110	3.2864	.1	6	20
bromobenzene	1.7120	1.7575	.05	-3	20
n-propylbenzene	6.6982	6.3294	.05	6	20
1,1,2,2,-tetrachloroethane	1.1880	1.1176	.3	6	20
2-chlorotoluene	4.9745	4.6527	.05	6	20
1,2,3-trichloropropane	.9793	.9344	.05	5	20
1,3,5-trimethybenzene	4.8855	4.6969	.05	4	20
4-chorotoluene	4.4701	4.3167	.05	3	20
tert-butylbenzene	3.9586	3.7341	.05	6	20
1,2,4-trimethylbenzene	4.9164	4.8903	.05	1	20
sec-butylbenzene	5.2118	4.8153	.01	8	20
p-isopropyltoluene	4.3474	4.2581	.05	2	20
1,3-dichlorobenzene	2.9126	2.8804	.6	1	20
1,4-dichlorobenzene	2.9892	2.8914	.5	3	20
n-butylbenzene	3.2747	3.1726	.05	3	20
1,2-dichlorobenzene	2.7074	2.6653	.4	2	20
1,2-dibromo-3-chloropropane	.13443	.12639	.05	6	20
hexachlorobutadiene	.40073	.47142	.05	-18	20
1,2,4-trichlorobenzene	.9608	.98144	.2	-2	20
naphthalene	1.8668	1.5249	.05	18	20
1,2,3-trichlorobenzene	.62003	.57624	.05	7	20
dibromofluoromethane	.24783	.24517	.05	1	20
1,2-dichloroethane-d4	.27528	.23641	.05	14	20
toluene-d8	1.2495	1.1767	.01	6	20
4-bromofluorobenzene	.86036	.84743	.05	2	20

FORM VII MCP-8260-10

ANALYTICAL REPORT

Lab Number:	L1205671
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	04/11/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1205671-01	INFLUENT	NEW BEDFORD, MA	04/03/12 14:35
L1205671-02	PRE CARBON	NEW BEDFORD, MA	04/03/12 15:20
L1205671-03	INTRA-CARBON	NEW BEDFORD, MA	04/03/12 15:30
L1205671-04	EFFLUENT	NEW BEDFORD, MA	04/03/12 15:35
L1205671-05	TRIP BLANK	NEW BEDFORD, MA	04/03/12 00:00

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA **Lab Number:** L1205671
Project Number: 115058 **Report Date:** 04/11/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

MCP Related Narratives

Volatile Organics

L1205671-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L1205671-05: The Trip Blank has a result for Methylene Chloride present above the reporting limit. The

Case Narrative (continued)

sample vial was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

In reference to question G:

L1205671-01: None of the target analytes achieved the requested CAM reporting limits.

L1205671-05: The requested CAM reporting limit was not achieved for Tetrahydrofuran.

In reference to question H:

The WG527908-1/-2 LCS/LCSD recoveries, associated with L1205671-03 and -04, are below the acceptance criteria for Carbon disulfide (66%/69%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

The WG528084-7/-8 LCS/LCSD recoveries, associated with L1205671-01, are outside the individual acceptance criteria for two compounds, but within the overall method allowances. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for Chloroethane (68%/68%) and a potentially high bias for Hexachlorobutadiene (LCS at 135%).

The WG528084-7/-8 LCS/LCSD recoveries, associated with L1205671-01, are below the acceptance criteria for Carbon disulfide (64%/67%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

The WG528172-2 LCSD recovery, associated with L1205671-05, is below the acceptance criteria for Carbon disulfide (69%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

The WG528172-1/-2 LCS/LCSD recoveries, associated with L1205671-05, are below the individual acceptance criteria for Naphthalene (LCS at 64%) and Ethyl ether (66%/67%), but within the overall method allowances. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for these compounds.

The initial calibration, associated with L1205671-01, -03, -04 and -05, did not meet the method required minimum response factors on the lowest calibration standards for 1,4-Dioxane (0.00345), as well as the

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Case Narrative (continued)

average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Acetone.
The continuing calibration standards, associated with L1205671-01, -03, -04 and -05, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

PCBs
L1205671-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.
In reference to question G:
L1205671-01: None of the target analytes achieved the requested CAM reporting limits.
In reference to question H:
The surrogate recoveries for L1205671-01 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 04/11/12

ORGANICS

VOLATILES

Project Name: NBHS IRA **Lab Number:** L1205671

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SAMPLE RESULTS

Lab ID:	L1205671-01 D	Date Collected:	04/03/12 14:35
Client ID:	INFLUENT	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/11/12 08:36		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	200	--	100
1,1-Dichloroethane	ND		ug/l	100	--	100
Chloroform	ND		ug/l	100	--	100
Carbon tetrachloride	ND		ug/l	100	--	100
1,2-Dichloropropane	ND		ug/l	100	--	100
Dibromochloromethane	ND		ug/l	100	--	100
1,1,2-Trichloroethane	ND		ug/l	100	--	100
Tetrachloroethene	ND		ug/l	100	--	100
Chlorobenzene	ND		ug/l	100	--	100
Trichlorofluoromethane	ND		ug/l	200	--	100
1,2-Dichloroethane	ND		ug/l	100	--	100
1,1,1-Trichloroethane	ND		ug/l	100	--	100
Bromodichloromethane	ND		ug/l	100	--	100
trans-1,3-Dichloropropene	ND		ug/l	50	--	100
cis-1,3-Dichloropropene	ND		ug/l	50	--	100
1,1-Dichloropropene	ND		ug/l	200	--	100
Bromoform	ND		ug/l	200	--	100
1,1,2,2-Tetrachloroethane	ND		ug/l	100	--	100
Benzene	ND		ug/l	50	--	100
Toluene	ND		ug/l	100	--	100
Ethylbenzene	ND		ug/l	100	--	100
Chloromethane	ND		ug/l	200	--	100
Bromomethane	ND		ug/l	200	--	100
Vinyl chloride	400		ug/l	100	--	100
Chloroethane	ND		ug/l	200	--	100
1,1-Dichloroethene	ND		ug/l	100	--	100
trans-1,2-Dichloroethene	490		ug/l	100	--	100
Trichloroethene	8900		ug/l	100	--	100
1,2-Dichlorobenzene	ND		ug/l	100	--	100
1,3-Dichlorobenzene	ND		ug/l	100	--	100
1,4-Dichlorobenzene	ND		ug/l	100	--	100

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SAMPLE RESULTS

Lab ID: L1205671-01 D Date Collected: 04/03/12 14:35

Client ID: INFLUENT Date Received: 04/04/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	200	--	100
p/m-Xylene	ND		ug/l	200	--	100
o-Xylene	ND		ug/l	100	--	100
cis-1,2-Dichloroethene	1900		ug/l	100	--	100
Dibromomethane	ND		ug/l	200	--	100
1,2,3-Trichloropropane	ND		ug/l	200	--	100
Styrene	ND		ug/l	100	--	100
Dichlorodifluoromethane	ND		ug/l	200	--	100
Acetone	ND		ug/l	500	--	100
Carbon disulfide	ND		ug/l	200	--	100
2-Butanone	ND		ug/l	500	--	100
4-Methyl-2-pentanone	ND		ug/l	500	--	100
2-Hexanone	ND		ug/l	500	--	100
Bromochloromethane	ND		ug/l	200	--	100
Tetrahydrofuran	ND		ug/l	500	--	100
2,2-Dichloropropane	ND		ug/l	200	--	100
1,2-Dibromoethane	ND		ug/l	200	--	100
1,3-Dichloropropane	ND		ug/l	200	--	100
1,1,1,2-Tetrachloroethane	ND		ug/l	100	--	100
Bromobenzene	ND		ug/l	200	--	100
n-Butylbenzene	ND		ug/l	200	--	100
sec-Butylbenzene	ND		ug/l	200	--	100
tert-Butylbenzene	ND		ug/l	200	--	100
o-Chlorotoluene	ND		ug/l	200	--	100
p-Chlorotoluene	ND		ug/l	200	--	100
1,2-Dibromo-3-chloropropane	ND		ug/l	200	--	100
Hexachlorobutadiene	ND		ug/l	60	--	100
Isopropylbenzene	ND		ug/l	200	--	100
p-Isopropyltoluene	ND		ug/l	200	--	100
Naphthalene	ND		ug/l	200	--	100
n-Propylbenzene	ND		ug/l	200	--	100
1,2,3-Trichlorobenzene	ND		ug/l	200	--	100
1,2,4-Trichlorobenzene	ND		ug/l	200	--	100
1,3,5-Trimethylbenzene	ND		ug/l	200	--	100
1,2,4-Trimethylbenzene	ND		ug/l	200	--	100
Ethyl ether	ND		ug/l	200	--	100
Isopropyl Ether	ND		ug/l	200	--	100
Ethyl-Tert-Butyl-Ether	ND		ug/l	200	--	100
Tertiary-Amyl Methyl Ether	ND		ug/l	200	--	100

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SAMPLE RESULTS

Lab ID:	L1205671-01	D	Date Collected:	04/03/12 14:35
Client ID:	INFLUENT		Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	25000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

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SAMPLE RESULTS

Lab ID:	L1205671-03	Date Collected:	04/03/12 15:30
Client ID:	INTRA-CARBON	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/06/12 17:28		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

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SAMPLE RESULTS

Lab ID: L1205671-03 Date Collected: 04/03/12 15:30

Client ID: INTRA-CARBON Date Received: 04/04/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	8.2		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

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SAMPLE RESULTS

Lab ID:	L1205671-03	Date Collected:	04/03/12 15:30
Client ID:	INTRA-CARBON	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	95		70-130

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SAMPLE RESULTS

Lab ID:	L1205671-04	Date Collected:	04/03/12 15:35
Client ID:	EFFLUENT	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/06/12 18:01		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

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SAMPLE RESULTS

Lab ID: L1205671-04 Date Collected: 04/03/12 15:35

Client ID: EFFLUENT Date Received: 04/04/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	14		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

SAMPLE RESULTS

Lab ID:	L1205671-04	Date Collected:	04/03/12 15:35
Client ID:	EFFLUENT	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

SAMPLE RESULTS

Lab ID:	L1205671-05	Date Collected:	04/03/12 00:00
Client ID:	TRIP BLANK	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/10/12 10:07		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	8.2		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

SAMPLE RESULTS

Lab ID: L1205671-05 Date Collected: 04/03/12 00:00

Client ID: TRIP BLANK Date Received: 04/04/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

SAMPLE RESULTS

Lab ID:	L1205671-05	Date Collected:	04/03/12 00:00
Client ID:	TRIP BLANK	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	96		70-130

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/06/12 09:19
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03-04 Batch: WG527908-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/06/12 09:19
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03-04 Batch: WG527908-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/06/12 09:19
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03-04 Batch: WG527908-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/11/12 08:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG528084-9					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/11/12 08:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG528084-9					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/11/12 08:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG528084-9					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	95		70-130

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/10/12 09:35
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG528172-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/10/12 09:35
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG528172-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/10/12 09:35
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG528172-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03-04 Batch: WG527908-1 WG527908-2								
Methylene chloride	115		115		70-130	0		20
1,1-Dichloroethane	110		114		70-130	4		20
Chloroform	111		111		70-130	0		20
Carbon tetrachloride	117		117		70-130	0		20
1,2-Dichloropropane	114		113		70-130	1		20
Dibromochloromethane	104		101		70-130	3		20
1,1,2-Trichloroethane	106		103		70-130	3		20
Tetrachloroethene	120		119		70-130	1		20
Chlorobenzene	101		101		70-130	0		20
Trichlorofluoromethane	87		86		70-130	1		20
1,2-Dichloroethane	107		105		70-130	2		20
1,1,1-Trichloroethane	111		113		70-130	2		20
Bromodichloromethane	113		115		70-130	2		20
trans-1,3-Dichloropropene	101		103		70-130	2		20
cis-1,3-Dichloropropene	114		117		70-130	3		20
1,1-Dichloropropene	115		112		70-130	3		20
Bromoform	88		90		70-130	2		20
1,1,2,2-Tetrachloroethane	89		82		70-130	8		20
Benzene	114		116		70-130	2		20
Toluene	99		99		70-130	0		20
Ethylbenzene	104		105		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03-04 Batch: WG527908-1 WG527908-2								
Chloromethane	106		105		70-130	1		20
Bromomethane	89		84		70-130	6		20
Vinyl chloride	99		100		70-130	1		20
Chloroethane	78		76		70-130	3		20
1,1-Dichloroethene	87		89		70-130	2		20
trans-1,2-Dichloroethene	120		119		70-130	1		20
Trichloroethene	123		125		70-130	2		20
1,2-Dichlorobenzene	97		95		70-130	2		20
1,3-Dichlorobenzene	98		97		70-130	1		20
1,4-Dichlorobenzene	95		93		70-130	2		20
Methyl tert butyl ether	101		100		70-130	1		20
p/m-Xylene	100		101		70-130	1		20
o-Xylene	100		101		70-130	1		20
cis-1,2-Dichloroethene	121		120		70-130	1		20
Dibromomethane	120		119		70-130	1		20
1,2,3-Trichloropropane	91		89		70-130	2		20
Styrene	98		99		70-130	1		20
Dichlorodifluoromethane	118		116		70-130	2		20
Acetone	98		97		70-130	1		20
Carbon disulfide	**66**	Q	**69**	Q	70-130	4		20
2-Butanone	104		101		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03-04 Batch: WG527908-1 WG527908-2								
4-Methyl-2-pentanone	104		108		70-130	4		20
2-Hexanone	80		80		70-130	0		20
Bromochloromethane	121		119		70-130	2		20
Tetrahydrofuran	85		87		70-130	2		20
2,2-Dichloropropane	115		112		70-130	3		20
1,2-Dibromoethane	105		105		70-130	0		20
1,3-Dichloropropane	104		102		70-130	2		20
1,1,1,2-Tetrachloroethane	102		101		70-130	1		20
Bromobenzene	100		101		70-130	1		20
n-Butylbenzene	91		90		70-130	1		20
sec-Butylbenzene	92		92		70-130	0		20
tert-Butylbenzene	90		93		70-130	3		20
o-Chlorotoluene	90		89		70-130	1		20
p-Chlorotoluene	92		92		70-130	0		20
1,2-Dibromo-3-chloropropane	90		85		70-130	6		20
Hexachlorobutadiene	116		116		70-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	95		96		70-130	1		20
Naphthalene	74		74		70-130	0		20
n-Propylbenzene	90		90		70-130	0		20
1,2,3-Trichlorobenzene	83		90		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03-04 Batch: WG527908-1 WG527908-2								
1,2,4-Trichlorobenzene	93		89		70-130	4		20
1,3,5-Trimethylbenzene	91		91		70-130	0		20
1,2,4-Trimethylbenzene	96		96		70-130	0		20
Ethyl ether	76		76		70-130	0		20
Isopropyl Ether	93		92		70-130	1		20
Ethyl-Tert-Butyl-Ether	100		101		70-130	1		20
Tertiary-Amyl Methyl Ether	108		107		70-130	1		20
1,4-Dioxane	128		125		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	80		83		70-130
Toluene-d8	87		89		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	93		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG528084-7 WG528084-8								
Methylene chloride	97		99		70-130	2		20
1,1-Dichloroethane	92		93		70-130	1		20
Chloroform	96		97		70-130	1		20
Carbon tetrachloride	97		102		70-130	5		20
1,2-Dichloropropane	97		94		70-130	3		20
Dibromochloromethane	98		101		70-130	3		20
1,1,2-Trichloroethane	103		103		70-130	0		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	99		96		70-130	3		20
Trichlorofluoromethane	78		77		70-130	1		20
1,2-Dichloroethane	90		90		70-130	0		20
1,1,1-Trichloroethane	100		98		70-130	2		20
Bromodichloromethane	99		96		70-130	3		20
trans-1,3-Dichloropropene	99		98		70-130	1		20
cis-1,3-Dichloropropene	98		97		70-130	1		20
1,1-Dichloropropene	98		98		70-130	0		20
Bromoform	95		97		70-130	2		20
1,1,2,2-Tetrachloroethane	89		85		70-130	5		20
Benzene	99		98		70-130	1		20
Toluene	96		93		70-130	3		20
Ethylbenzene	102		102		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG528084-7 WG528084-8								
Chloromethane	90		91		70-130	1		20
Bromomethane	77		75		70-130	3		20
Vinyl chloride	87		87		70-130	0		20
Chloroethane	**68**	Q	**68**	Q	70-130	0		20
1,1-Dichloroethene	75		75		70-130	0		20
trans-1,2-Dichloroethene	105		105		70-130	0		20
Trichloroethene	105		107		70-130	2		20
1,2-Dichlorobenzene	101		100		70-130	1		20
1,3-Dichlorobenzene	102		101		70-130	1		20
1,4-Dichlorobenzene	100		99		70-130	1		20
Methyl tert butyl ether	93		93		70-130	0		20
p/m-Xylene	100		98		70-130	2		20
o-Xylene	103		102		70-130	1		20
cis-1,2-Dichloroethene	104		107		70-130	3		20
Dibromomethane	99		98		70-130	1		20
1,2,3-Trichloropropane	90		94		70-130	4		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	112		114		70-130	2		20
Acetone	81		82		70-130	1		20
Carbon disulfide	**64**	Q	**67**	Q	70-130	5		20
2-Butanone	87		84		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG528084-7 WG528084-8								
4-Methyl-2-pentanone	93		99		70-130	6		20
2-Hexanone	79		77		70-130	3		20
Bromochloromethane	104		109		70-130	5		20
Tetrahydrofuran	80		78		70-130	3		20
2,2-Dichloropropane	99		98		70-130	1		20
1,2-Dibromoethane	104		105		70-130	1		20
1,3-Dichloropropane	99		98		70-130	1		20
1,1,1,2-Tetrachloroethane	102		102		70-130	0		20
Bromobenzene	107		104		70-130	3		20
n-Butylbenzene	94		91		70-130	3		20
sec-Butylbenzene	95		93		70-130	2		20
tert-Butylbenzene	94		93		70-130	1		20
o-Chlorotoluene	93		94		70-130	1		20
p-Chlorotoluene	94		95		70-130	1		20
1,2-Dibromo-3-chloropropane	91		100		70-130	9		20
Hexachlorobutadiene	**135**	Q	124		70-130	8		20
Isopropylbenzene	98		99		70-130	1		20
p-Isopropyltoluene	98		99		70-130	1		20
Naphthalene	76		76		70-130	0		20
n-Propylbenzene	94		91		70-130	3		20
1,2,3-Trichlorobenzene	92		97		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG528084-7 WG528084-8								
1,2,4-Trichlorobenzene	96		96		70-130	0		20
1,3,5-Trimethylbenzene	94		93		70-130	1		20
1,2,4-Trimethylbenzene	100		99		70-130	1		20
Ethyl ether	73		71		70-130	3		20
Isopropyl Ether	80		80		70-130	0		20
Ethyl-Tert-Butyl-Ether	90		91		70-130	1		20
Tertiary-Amyl Methyl Ether	96		97		70-130	1		20
1,4-Dioxane	92		93		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		88		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	97		93		70-130
Dibromofluoromethane	96		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG528172-1 WG528172-2								
Methylene chloride	104		105		70-130	1		20
1,1-Dichloroethane	102		100		70-130	2		20
Chloroform	105		105		70-130	0		20
Carbon tetrachloride	109		108		70-130	1		20
1,2-Dichloropropane	106		105		70-130	1		20
Dibromochloromethane	112		111		70-130	1		20
1,1,2-Trichloroethane	106		107		70-130	1		20
Tetrachloroethene	122		126		70-130	3		20
Chlorobenzene	101		103		70-130	2		20
Trichlorofluoromethane	82		78		70-130	5		20
1,2-Dichloroethane	99		98		70-130	1		20
1,1,1-Trichloroethane	108		103		70-130	5		20
Bromodichloromethane	111		106		70-130	5		20
trans-1,3-Dichloropropene	103		104		70-130	1		20
cis-1,3-Dichloropropene	108		106		70-130	2		20
1,1-Dichloropropene	107		105		70-130	2		20
Bromoform	96		98		70-130	2		20
1,1,2,2-Tetrachloroethane	93		92		70-130	1		20
Benzene	108		106		70-130	2		20
Toluene	103		102		70-130	1		20
Ethylbenzene	109		110		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG528172-1 WG528172-2								
Chloromethane	102		98		70-130	4		20
Bromomethane	83		77		70-130	8		20
Vinyl chloride	95		92		70-130	3		20
Chloroethane	74		71		70-130	4		20
1,1-Dichloroethene	82		79		70-130	4		20
trans-1,2-Dichloroethene	112		111		70-130	1		20
Trichloroethene	115		112		70-130	3		20
1,2-Dichlorobenzene	101		101		70-130	0		20
1,3-Dichlorobenzene	103		102		70-130	1		20
1,4-Dichlorobenzene	100		99		70-130	1		20
Methyl tert butyl ether	95		91		70-130	4		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	106		108		70-130	2		20
cis-1,2-Dichloroethene	114		113		70-130	1		20
Dibromomethane	110		106		70-130	4		20
1,2,3-Trichloropropane	94		94		70-130	0		20
Styrene	103		104		70-130	1		20
Dichlorodifluoromethane	125		120		70-130	4		20
Acetone	88		87		70-130	1		20
Carbon disulfide	70		**69**	Q	70-130	1		20
2-Butanone	98		93		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG528172-1 WG528172-2								
4-Methyl-2-pentanone	102		103		70-130	1		20
2-Hexanone	82		84		70-130	2		20
Bromochloromethane	115		114		70-130	1		20
Tetrahydrofuran	80		81		70-130	1		20
2,2-Dichloropropane	107		103		70-130	4		20
1,2-Dibromoethane	108		109		70-130	1		20
1,3-Dichloropropane	105		104		70-130	1		20
1,1,1,2-Tetrachloroethane	108		105		70-130	3		20
Bromobenzene	106		105		70-130	1		20
n-Butylbenzene	94		94		70-130	0		20
sec-Butylbenzene	99		99		70-130	0		20
tert-Butylbenzene	99		97		70-130	2		20
o-Chlorotoluene	94		94		70-130	0		20
p-Chlorotoluene	97		96		70-130	1		20
1,2-Dibromo-3-chloropropane	87		101		70-130	15		20
Hexachlorobutadiene	123		127		70-130	3		20
Isopropylbenzene	105		107		70-130	2		20
p-Isopropyltoluene	102		102		70-130	0		20
Naphthalene	**64**	Q	72		70-130	12		20
n-Propylbenzene	97		96		70-130	1		20
1,2,3-Trichlorobenzene	77		88		70-130	13		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG528172-1 WG528172-2								
1,2,4-Trichlorobenzene	91		94		70-130	3		20
1,3,5-Trimethylbenzene	97		95		70-130	2		20
1,2,4-Trimethylbenzene	102		102		70-130	0		20
Ethyl ether	**66**	Q	**67**	Q	70-130	2		20
Isopropyl Ether	85		82		70-130	4		20
Ethyl-Tert-Butyl-Ether	93		92		70-130	1		20
Tertiary-Amyl Methyl Ether	101		100		70-130	1		20
1,4-Dioxane	83		88		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		87		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	99		98		70-130

PCBS

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205671
Report Date: 04/11/12

SAMPLE RESULTS

Lab ID:	L1205671-01 D	Date Collected:	04/03/12 14:35
Client ID:	INFLUENT	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	04/06/12 08:38
Analytical Date:	04/11/12 11:41	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	04/06/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/06/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	500	--	2000
Aroclor 1221	ND		ug/l	500	--	2000
Aroclor 1232	ND		ug/l	500	--	2000
Aroclor 1242	ND		ug/l	500	--	2000
Aroclor 1248	ND		ug/l	500	--	2000
Aroclor 1254	6800		ug/l	500	--	2000
Aroclor 1260	ND		ug/l	500	--	2000
Aroclor 1262	ND		ug/l	500	--	2000
Aroclor 1268	ND		ug/l	500	--	2000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205671
Report Date: 04/11/12

SAMPLE RESULTS

Lab ID:	L1205671-02	Date Collected:	04/03/12 15:20
Client ID:	PRE CARBON	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	04/06/12 08:38
Analytical Date:	04/06/12 18:27	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	04/06/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/06/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	2.12		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	73		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	67		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205671
Report Date: 04/11/12

SAMPLE RESULTS

Lab ID:	L1205671-04	Date Collected:	04/03/12 15:35
Client ID:	EFFLUENT	Date Received:	04/04/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	04/06/12 08:38
Analytical Date:	04/06/12 18:41	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	04/06/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/06/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	89		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	76		30-150

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1205671

Report Date: 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 04/06/12 17:35
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 04/06/12 08:38
Cleanup Method1: EPA 3665A
Cleanup Date1: 04/06/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 04/06/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02,04 Batch: WG527521-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--
Aroclor 1262	ND		ug/l	0.250	--
Aroclor 1268	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	80		30-150
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	71		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-02,04 Batch: WG527521-2 WG527521-3								
Aroclor 1016	75		83		40-140	10		20
Aroclor 1260	84		85		40-140	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		70		30-150
Decachlorobiphenyl	88		86		30-150
2,4,5,6-Tetrachloro-m-xylene	77		73		30-150
Decachlorobiphenyl	78		72		30-150

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205671
Report Date: 04/11/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1205671-01A	Vial HCl preserved	A	NA	2.1	Y	Absent	MCP-8260-10(14)
L1205671-01B	Vial HCl preserved	A	NA	2.1	Y	Absent	MCP-8260-10(14)
L1205671-01C	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	MCP-8082-10(365)
L1205671-01D	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	MCP-8082-10(365)
L1205671-02A	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	MCP-8082-10(365)
L1205671-02B	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	MCP-8082-10(365)
L1205671-03A	Vial HCl preserved	A	NA	2.1	Y	Absent	MCP-8260-10(14)
L1205671-03B	Vial HCl preserved	A	NA	2.1	Y	Absent	MCP-8260-10(14)
L1205671-04A	Vial HCl preserved	A	NA	2.1	Y	Absent	MCP-8260-10(14)
L1205671-04B	Vial HCl preserved	A	NA	2.1	Y	Absent	MCP-8260-10(14)
L1205671-04C	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	MCP-8082-10(365)
L1205671-04D	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	MCP-8082-10(365)
L1205671-05A	Vial HCl preserved	A	NA	2.1	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1205671
Project Number:	115058	**Report Date:**	04/11/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name: NBHS IRA **Lab Number:** L1205671

Project Number: 115058 **Report Date:** 04/11/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205671
Report Date: 04/11/12

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL — World Class Chemistry
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 4/4/12

ALPHA Job #: L1205671

Client Information

Client: TRC SOLUTIONS.
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978 970 5600
Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD@ " " "

Additional Project Information:

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD MA
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH *(only confirmed if pre-approved!)*
Date Due: 4/10

Report Information - Data Deliverables

☐ ADEx ☑ EMAIL

Billing Information

☐ Same as Client info PO #: G115058

Regulatory Requirements & Project Information Requirements

☑ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program ______ Criteria ______

ANALYSIS

VOC: ☑ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☐ PAH
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
EPH: ☐ Ranges & Targets ☐ Ranges Only
VPH: ☐ Ranges & Targets ☐ Ranges Only
☑ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS (MCP)	METALS (RCRA)	EPH	VPH	PCB	TPH	Sample Comments	TOTAL # BOTTLES
05671 1	INFLUENT	4/3	14:55	I	[illegible]	✓						✓			4
2	PRE CARBON	4/3	15:20	X	[illegible]							✓			2
3	INTRA - CARBON	4/3	15:30	X	[illegible]	✓									2
4	EFFLUENT	4/3	15:35	E	[illegible]	✓						✓			4
5	TRIP BLANK	–	–	DW		✓									1
Container Type						V						A			
Preservative						B						A			

Container Type	Preservative
P= Plastic	A= None
A= Amber glass	B= HCl
V= Vial	C= HNO_3
G= Glass	D= H_2SO_4
B= Bacteria cup	E= NaOH
C= Cube	F= MeOH
O= Other	G= $NaHSO_4$
E= Encore	H = $Na_2S_2O_3$
D= BOD Bottle	I= Ascorbic Acid
	J = NH_4Cl
	K= Zn Acetate
	O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible signature]	4/4 1313	HGM	4/4/12 1313
HGM	4/4/12 1345	[illegible signature]	4/4/12 1345

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
FORM NO: 01-01 (rev. 12-Mar-2012)

Serial_No:04111213:27

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205671

Instrument ID: Jack.i Calibration Date: 11-APR-2012 Time: 06:26

Lab File ID: 0411A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.67235	.74999	.1	-12	20	
chloromethane	.81628	.73844	.1	10	20	
vinyl chloride	.75023	.65151	.1	13	20	
bromomethane	.42326	.32434	.1	23	20	F
chloroethane	.47256	.32187	.1	32	20	F
trichlorofluoromethane	1.1038	.85567	.1	22	20	F
ethyl ether	.35236	.25683	.05	27	20	F
1,1,-dichloroethene	.66272	.49667	.1	25	20	F
carbon disulfide	1.4976	.96146	.1	36	20	F
methylene chloride	.63572	.61679	.1	3	20	
acetone	100	81.033	.1	19	20	
trans-1,2-dichloroethene	.63223	.66482	.1	-5	20	
methyl tert butyl ether	1.5212	1.4181	.1	7	20	
Diisopropyl Ether	2.3850	1.9116	.01	20	20	
1,1-dichloroethane	1.1494	1.0547	.2	8	20	
Halothane	.47799	.52799	.05	-10	20	
Ethyl-Tert-Butyl-Ether	1.9424	1.7579	.05	9	20	
vinyl acetate	1.1540	.96425	.05	16	20	
cis-1,2-dichloroethene	.677	.70262	.1	-4	20	
2,2-dichloropropane	.90978	.89927	.05	1	20	
bromochloromethane	.3184	.33163	.05	-4	20	
chloroform	1.1139	1.0636	.2	5	20	
carbontetrachloride	.82818	.8015	.1	3	20	
tetrahydrofuran	.19128	.1525	.05	20	20	F
1,1,1-trichloroethane	1.0199	1.0146	.1	1	20	
1,1-dichloropropene	.88498	.86758	.05	2	20	
2-butanone	.22584	.1965	.1	13	20	
benzene	2.5798	2.5489	.5	1	20	
Tertiary-Amyl Methyl Ether	1.5282	1.4697	.05	4	20	
1,2-dichloroethane	.80808	.72692	.1	10	20	
trichloroethene	.69645	.73034	.2	-5	20	
dibromomethane	.31577	.3117	.05	1	20	
1,2-dichloropropane	.64211	.6207	.1	3	20	
bromodichloromethane	.75952	.74935	.2	1	20	
1,4-dioxane	.0035	.00323	.05	8	20	F
2-chloroethylvinyl ether	.34182	.32805	.05	4	20	
cis-1,3-dichloropropene	.92073	.90098	.2	2	20	
toluene	2.1136	2.0403	.4	3	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205671

Instrument ID: Jack.i Calibration Date: 11-APR-2012 Time: 06:26

Lab File ID: 0411A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
tetrachloroethene	.88878	1.0687	.2	-20	20	F
4-methyl-2-pentanone	.16538	.15338	.1	7	20	
trans-1,3-dichloropropene	.93189	.91973	.1	1	20	
1,1,2-trichloroethane	.48873	.50354	.1	-3	20	
chlorodibromomethane	.63071	.61984	.1	2	20	
1,3-dichloropropane	1.0199	1.0135	.05	1	20	
1,2-dibromoethane	.59853	.62201	.1	-4	20	
2-hexanone	.40068	.31598	.1	21	20	F
chlorobenzene	2.2806	2.2655	.5	1	20	
ethyl benzene	3.7380	3.8021	.1	-2	20	
1,1,1,2-tetrachloroethane	.75205	.76767	.05	-2	20	
p/m xylene	1.5508	1.5545	.1	0	20	
o xylene	1.4966	1.5482	.3	-3	20	
styrene	2.4820	2.4796	.3	0	20	
bromoform	.69352	.65784	.1	5	20	
isopropylbenzene	3.5110	3.4577	.1	2	20	
bromobenzene	1.7120	1.8321	.05	-7	20	
n-propylbenzene	6.6982	6.3001	.05	6	20	
1,1,2,2,-tetrachloroethane	1.1880	1.0539	.3	11	20	
2-chlorotoluene	4.9745	4.6290	.05	7	20	
1,2,3-trichloropropane	.9793	.88234	.05	10	20	
1,3,5-trimethybenzene	4.8855	4.5901	.05	6	20	
4-chorotoluene	4.4701	4.2108	.05	6	20	
tert-butylbenzene	3.9586	3.7021	.05	6	20	
1,2,4-trimethylbenzene	4.9164	4.9110	.05	0	20	
sec-butylbenzene	5.2118	4.9369	.01	5	20	
p-isopropyltoluene	4.3474	4.2829	.05	1	20	
1,3-dichlorobenzene	2.9126	2.9824	.6	-2	20	
1,4-dichlorobenzene	2.9892	3.0000	.5	0	20	
n-butylbenzene	3.2747	3.0750	.05	6	20	
1,2-dichlorobenzene	2.7074	2.7480	.4	-1	20	
1,2-dibromo-3-chloropropane	.13443	.12258	.05	9	20	
hexachlorobutadiene	.40073	.53968	.05	-35	20	F
1,2,4-trichlorobenzene	.9608	.92737	.2	3	20	
naphthalene	1.8668	1.4177	.05	24	20	F
1,2,3-trichlorobenzene	.62003	.56733	.05	8	20	
dibromofluoromethane	.24783	.2381	.05	4	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205671

Instrument ID: Jack.i Calibration Date: 11-APR-2012 Time: 06:26

Lab File ID: 0411A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
1,2-dichloroethane-d4	.27528	.24851	.05	10	20
toluene-d8	1.2495	1.2448	.01	0	20
4-bromofluorobenzene	.86036	.83788	.05	3	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205671

Instrument ID: Jack.i Calibration Date: 10-APR-2012 Time: 07:57

Lab File ID: 0410A05 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.67235	.84086	.1	-25	20	F
chloromethane	.81628	.83032	.1	-2	20	
vinyl chloride	.75023	.70949	.1	5	20	
bromomethane	.42326	.35188	.1	17	20	
chloroethane	.47256	.34882	.1	26	20	F
trichlorofluoromethane	1.1038	.90677	.1	18	20	
ethyl ether	.35236	.23349	.05	34	20	F
1,1,-dichloroethene	.66272	.5442	.1	18	20	
carbon disulfide	1.4976	1.0506	.1	30	20	F
methylene chloride	.63572	.66336	.1	-4	20	
acetone	100	87.500	.1	12	20	
trans-1,2-dichloroethene	.63223	.70738	.1	-12	20	
methyl tert butyl ether	1.5212	1.4464	.1	5	20	
Ethyl-Tert-Butyl-Ether	1.9424	1.8135	.05	7	20	
Diisopropyl Ether	2.3850	2.0361	.01	15	20	
1,1-dichloroethane	1.1494	1.1735	.2	-2	20	
cis-1,2-dichloroethene	.677	.77358	.1	-14	20	
2,2-dichloropropane	.90978	.97571	.05	-7	20	
bromochloromethane	.3184	.36593	.05	-15	20	
chloroform	1.1139	1.1699	.2	-5	20	
carbontetrachloride	.82818	.90475	.1	-9	20	
tetrahydrofuran	.19128	.15386	.05	20	20	
1,1,1-trichloroethane	1.0199	1.0994	.1	-8	20	
Tertiary-Amyl Methyl Ether	1.5282	1.5391	.05	-1	20	
1,1-dichloropropene	.88498	.95038	.05	-7	20	
2-butanone	.22584	.22122	.1	2	20	
benzene	2.5798	2.7773	.5	-8	20	
1,2-dichloroethane	.80808	.80302	.1	1	20	
trichloroethene	.69645	.80276	.2	-15	20	
dibromomethane	.31577	.34603	.05	-10	20	
1,2-dichloropropane	.64211	.68133	.1	-6	20	
bromodichloromethane	.75952	.8421	.2	-11	20	
1,4-dioxane	.0035	.00289	.05	17	20	F
cis-1,3-dichloropropene	.92073	.9899	.2	-8	20	
toluene	2.1136	2.1698	.4	-3	20	
tetrachloroethene	.88878	1.0847	.2	-22	20	F
4-methyl-2-pentanone	.16538	.16841	.1	-2	20	
trans-1,3-dichloropropene	.93189	.95784	.1	-3	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205671

Instrument ID: Jack.i Calibration Date: 10-APR-2012 Time: 07:57

Lab File ID: 0410A05 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
1,1,2-trichloroethane	.48873	.5167	.1	-6	20	
chlorodibromomethane	.63071	.70426	.1	-12	20	
1,3-dichloropropane	1.0199	1.0713	.05	-5	20	
1,2-dibromoethane	.59853	.64862	.1	-8	20	
2-hexanone	.40068	.32963	.1	18	20	
chlorobenzene	2.2806	2.3027	.5	-1	20	
ethyl benzene	3.7380	4.0637	.1	-9	20	
1,1,1,2-tetrachloroethane	.75205	.81559	.05	-8	20	
p/m xylene	1.5508	1.6517	.1	-7	20	
o xylene	1.4966	1.5920	.3	-6	20	
styrene	2.4820	2.564	.3	-3	20	
bromoform	.69352	.66455	.1	4	20	
isopropylbenzene	3.5110	3.6802	.1	-5	20	
bromobenzene	1.7120	1.8192	.05	-6	20	
n-propylbenzene	6.6982	6.4978	.05	3	20	
1,1,2,2,-tetrachloroethane	1.1880	1.1080	.3	7	20	
2-chlorotoluene	4.9745	4.6913	.05	6	20	
1,2,3-trichloropropane	.9793	.9196	.05	6	20	
1,3,5-trimethybenzene	4.8855	4.7580	.05	3	20	
4-chorotoluene	4.4701	4.3402	.05	3	20	
tert-butylbenzene	3.9586	3.9116	.05	1	20	
1,2,4-trimethylbenzene	4.9164	4.9951	.05	-2	20	
sec-butylbenzene	5.2118	5.1751	.01	1	20	
p-isopropyltoluene	4.3474	4.4323	.05	-2	20	
1,3-dichlorobenzene	2.9126	2.9897	.6	-3	20	
1,4-dichlorobenzene	2.9892	2.9940	.5	0	20	
n-butylbenzene	3.2747	3.0932	.05	6	20	
1,2-dichlorobenzene	2.7074	2.7260	.4	-1	20	
1,2-dibromo-3-chloropropane	.13443	.11751	.05	13	20	
hexachlorobutadiene	.40073	.49198	.05	-23	20	F
1,2,4-trichlorobenzene	.9608	.87665	.2	9	20	
naphthalene	1.8668	1.2008	.05	36	20	F
1,2,3-trichlorobenzene	.62003	.47603	.05	23	20	F
dibromofluoromethane	.24783	.2449	.05	1	20	
1,2-dichloroethane-d4	.27528	.23699	.05	14	20	
toluene-d8	1.2495	1.2030	.01	4	20	
4-bromofluorobenzene	.86036	.82705	.05	4	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205671

Instrument ID: Jack.i Calibration Date: 06-APR-2012 Time: 07:42

Lab File ID: 0406A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.67235	.79455	.1	-18	20	
chloromethane	.81628	.86311	.1	-6	20	
vinyl chloride	.75023	.74127	.1	1	20	
bromomethane	.42326	.3753	.1	11	20	
chloroethane	.47256	.3668	.1	22	20	F
trichlorofluoromethane	1.1038	.95619	.1	13	20	
ethyl ether	.35236	.26904	.05	24	20	F
1,1,-dichloroethene	.66272	.5746	.1	13	20	
carbon disulfide	1.4976	.99012	.1	34	20	F
methylene chloride	.63572	.72974	.1	-15	20	
acetone	100	98.346	.1	2	20	
trans-1,2-dichloroethene	.63223	.75733	.1	-20	20	
methyl tert butyl ether	1.5212	1.5345	.1	-1	20	
Ethyl-Tert-Butyl-Ether	1.9424	1.9521	.05	0	20	
Diisopropyl Ether	2.3850	2.2149	.01	7	20	
1,1-dichloroethane	1.1494	1.2596	.2	-10	20	
cis-1,2-dichloroethene	.677	.81861	.1	-21	20	F
2,2-dichloropropane	.90978	1.0481	.05	-15	20	
bromochloromethane	.3184	.38509	.05	-21	20	F
chloroform	1.1139	1.2391	.2	-11	20	
carbontetrachloride	.82818	.96927	.1	-17	20	
tetrahydrofuran	.19128	.162	.05	15	20	
1,1,1-trichloroethane	1.0199	1.1357	.1	-11	20	
Tertiary-Amyl Methyl Ether	1.5282	1.6475	.05	-8	20	
1,1-dichloropropene	.88498	1.0220	.05	-15	20	
2-butanone	.22584	.23566	.1	-4	20	
benzene	2.5798	2.9547	.5	-15	20	
1,2-dichloroethane	.80808	.86366	.1	-7	20	
trichloroethene	.69645	.85452	.2	-23	20	F
dibromomethane	.31577	.37739	.05	-20	20	
1,2-dichloropropane	.64211	.73075	.1	-14	20	
bromodichloromethane	.75952	.85946	.2	-13	20	
1,4-dioxane	.0035	.0045	.05	-28	20	F
cis-1,3-dichloropropene	.92073	1.0469	.2	-14	20	
toluene	2.1136	2.0988	.4	1	20	
tetrachloroethene	.88878	1.0649	.2	-20	20	
4-methyl-2-pentanone	.16538	.17147	.1	-4	20	
trans-1,3-dichloropropene	.93189	.94581	.1	-1	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1205671

Instrument ID: Jack.i Calibration Date: 06-APR-2012 Time: 07:42

Lab File ID: 0406A03 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
1,1,2-trichloroethane	.48873	.51969	.1	-6	20	
chlorodibromomethane	.63071	.65337	.1	-4	20	
1,3-dichloropropane	1.0199	1.0614	.05	-4	20	
1,2-dibromoethane	.59853	.6297	.1	-5	20	
2-hexanone	.40068	.32211	.1	20	20	
chlorobenzene	2.2806	2.3034	.5	-1	20	
ethyl benzene	3.7380	3.8703	.1	-4	20	
1,1,1,2-tetrachloroethane	.75205	.76532	.05	-2	20	
p/m xylene	1.5508	1.5428	.1	1	20	
o xylene	1.4966	1.5000	.3	0	20	
styrene	2.4820	2.4286	.3	2	20	
bromoform	.69352	.61269	.1	12	20	
isopropylbenzene	3.5110	3.5103	.1	0	20	
bromobenzene	1.7120	1.7200	.05	0	20	
n-propylbenzene	6.6982	6.0387	.05	10	20	
1,1,2,2,-tetrachloroethane	1.1880	1.0586	.3	11	20	
2-chlorotoluene	4.9745	4.4732	.05	10	20	
1,2,3-trichloropropane	.9793	.89445	.05	9	20	
1,3,5-trimethybenzene	4.8855	4.4336	.05	9	20	
4-chorotoluene	4.4701	4.1367	.05	7	20	
tert-butylbenzene	3.9586	3.5659	.05	10	20	
1,2,4-trimethylbenzene	4.9164	4.7466	.05	3	20	
sec-butylbenzene	5.2118	4.7983	.01	8	20	
p-isopropyltoluene	4.3474	4.1488	.05	5	20	
1,3-dichlorobenzene	2.9126	2.8496	.6	2	20	
1,4-dichlorobenzene	2.9892	2.8400	.5	5	20	
n-butylbenzene	3.2747	2.9661	.05	9	20	
1,2-dichlorobenzene	2.7074	2.6184	.4	3	20	
1,2-dibromo-3-chloropropane	.13443	.12083	.05	10	20	
hexachlorobutadiene	.40073	.46671	.05	-16	20	
1,2,4-trichlorobenzene	.9608	.89245	.2	7	20	
naphthalene	1.8668	1.3853	.05	26	20	F
1,2,3-trichlorobenzene	.62003	.51393	.05	17	20	
dibromofluoromethane	.24783	.22974	.05	7	20	
1,2-dichloroethane-d4	.27528	.22114	.05	20	20	
toluene-d8	1.2495	1.0887	.01	13	20	
4-bromofluorobenzene	.86036	.81501	.05	5	20	

FORM VII MCP-8260-10

ANALYTICAL REPORT

Lab Number:	L1206286
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	04/25/12

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206286
Report Date: 04/25/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1206286-01	INFLUENT	NEW BEDFORD, MA	04/10/12 14:00
L1206286-02	POST CLAY	NEW BEDFORD, MA	04/10/12 14:20
L1206286-03	INTRA CARBON	NEW BEDFORD, MA	04/10/12 14:40
L1206286-04	EFFLUENT	NEW BEDFORD, MA	04/10/12 15:00

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206286
Report Date: 04/25/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

Report Submission

This report replaces the report issued earlier today. The narratives in reference to question G have been amended.

Project Name: NBHS IRA **Lab Number:** L1206286
Project Number: 115058 **Report Date:** 04/25/12

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

L1206286-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question G:

L1206286-01: None of the target analytes achieved the requested CAM reporting limits.

In reference to question H:

The WG530152-1 LCS recovery, associated with L1206286-01, -03, and -04, is above the acceptance criteria for 1,4-Dioxane (136%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated samples are reported; however, all positive detects are considered to have a potentially high bias for this compound.

The WG530152-2/-3 LCS/LCSD RPDs, associated with L1206286-01, -03, and -04, are above the acceptance criteria for 2-Hexanone (21%) and Hexachlorobutadiene (29%).

The initial calibration, associated with L1206286-01, -03, and -04, utilized a quadratic fit for Dibromochloromethane, trans-1,2-Dichloroethene, Acetone, 1,2-Dibromo-3-chloropropane, Naphthalene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, and 1,4-Dioxane.

The continuing calibration standard, associated with L1206286-01, -03, and -04, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

PCBs

L1206286-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question G:

L1206286-01: None of the target analytes achieved the requested CAM reporting limits.

In reference to question H:

The surrogate recoveries for L1206286-01 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilution required to quantitate the sample. Re-extraction was not

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206286
Report Date: 04/25/12

Case Narrative (continued)

required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/25/12

ORGANICS

VOLATILES

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-01 D	Date Collected:	04/10/12 14:00
Client ID:	INFLUENT	Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 16:18		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	200	--	100
1,1-Dichloroethane	ND		ug/l	100	--	100
Chloroform	ND		ug/l	100	--	100
Carbon tetrachloride	ND		ug/l	100	--	100
1,2-Dichloropropane	ND		ug/l	100	--	100
Dibromochloromethane	ND		ug/l	100	--	100
1,1,2-Trichloroethane	ND		ug/l	100	--	100
Tetrachloroethene	ND		ug/l	100	--	100
Chlorobenzene	ND		ug/l	100	--	100
Trichlorofluoromethane	ND		ug/l	200	--	100
1,2-Dichloroethane	ND		ug/l	100	--	100
1,1,1-Trichloroethane	ND		ug/l	100	--	100
Bromodichloromethane	ND		ug/l	100	--	100
trans-1,3-Dichloropropene	ND		ug/l	50	--	100
cis-1,3-Dichloropropene	ND		ug/l	50	--	100
1,1-Dichloropropene	ND		ug/l	200	--	100
Bromoform	ND		ug/l	200	--	100
1,1,2,2-Tetrachloroethane	ND		ug/l	100	--	100
Benzene	ND		ug/l	50	--	100
Toluene	ND		ug/l	100	--	100
Ethylbenzene	ND		ug/l	100	--	100
Chloromethane	ND		ug/l	200	--	100
Bromomethane	ND		ug/l	200	--	100
Vinyl chloride	440		ug/l	100	--	100
Chloroethane	ND		ug/l	200	--	100
1,1-Dichloroethene	ND		ug/l	100	--	100
trans-1,2-Dichloroethene	400		ug/l	100	--	100
Trichloroethene	6800		ug/l	100	--	100
1,2-Dichlorobenzene	ND		ug/l	100	--	100
1,3-Dichlorobenzene	ND		ug/l	100	--	100
1,4-Dichlorobenzene	ND		ug/l	100	--	100

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID: L1206286-01 D Date Collected: 04/10/12 14:00

Client ID: INFLUENT Date Received: 04/11/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	200	--	100
p/m-Xylene	ND		ug/l	200	--	100
o-Xylene	ND		ug/l	100	--	100
cis-1,2-Dichloroethene	1600		ug/l	100	--	100
Dibromomethane	ND		ug/l	200	--	100
1,2,3-Trichloropropane	ND		ug/l	200	--	100
Styrene	ND		ug/l	100	--	100
Dichlorodifluoromethane	ND		ug/l	200	--	100
Acetone	ND		ug/l	500	--	100
Carbon disulfide	ND		ug/l	200	--	100
2-Butanone	ND		ug/l	500	--	100
4-Methyl-2-pentanone	ND		ug/l	500	--	100
2-Hexanone	ND		ug/l	500	--	100
Bromochloromethane	ND		ug/l	200	--	100
Tetrahydrofuran	ND		ug/l	500	--	100
2,2-Dichloropropane	ND		ug/l	200	--	100
1,2-Dibromoethane	ND		ug/l	200	--	100
1,3-Dichloropropane	ND		ug/l	200	--	100
1,1,1,2-Tetrachloroethane	ND		ug/l	100	--	100
Bromobenzene	ND		ug/l	200	--	100
n-Butylbenzene	ND		ug/l	200	--	100
sec-Butylbenzene	ND		ug/l	200	--	100
tert-Butylbenzene	ND		ug/l	200	--	100
o-Chlorotoluene	ND		ug/l	200	--	100
p-Chlorotoluene	ND		ug/l	200	--	100
1,2-Dibromo-3-chloropropane	ND		ug/l	200	--	100
Hexachlorobutadiene	ND		ug/l	60	--	100
Isopropylbenzene	ND		ug/l	200	--	100
p-Isopropyltoluene	ND		ug/l	200	--	100
Naphthalene	ND		ug/l	200	--	100
n-Propylbenzene	ND		ug/l	200	--	100
1,2,3-Trichlorobenzene	ND		ug/l	200	--	100
1,2,4-Trichlorobenzene	ND		ug/l	200	--	100
1,3,5-Trimethylbenzene	ND		ug/l	200	--	100
1,2,4-Trimethylbenzene	ND		ug/l	200	--	100
Ethyl ether	ND		ug/l	200	--	100
Isopropyl Ether	ND		ug/l	200	--	100
Ethyl-Tert-Butyl-Ether	ND		ug/l	200	--	100
Tertiary-Amyl Methyl Ether	ND		ug/l	200	--	100

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-01	D	Date Collected:	04/10/12 14:00
Client ID:	INFLUENT		Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	25000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	111		70-130

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-03	Date Collected:	04/10/12 14:40
Client ID:	INTRA CARBON	Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 16:52		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID: L1206286-03 Date Collected: 04/10/12 14:40

Client ID: INTRA CARBON Date Received: 04/11/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	9.1		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-03	Date Collected:	04/10/12 14:40
Client ID:	INTRA CARBON	Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	115		70-130

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-04	Date Collected:	04/10/12 15:00
Client ID:	EFFLUENT	Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/17/12 17:25		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID: L1206286-04 Date Collected: 04/10/12 15:00

Client ID: EFFLUENT Date Received: 04/11/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	17		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-04	Date Collected:	04/10/12 15:00
Client ID:	EFFLUENT	Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	113		70-130

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/17/12 09:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG530152-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS IRA **Lab Number:** L1206286

Project Number: 115058 **Report Date:** 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/17/12 09:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG530152-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206286
Report Date: 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/17/12 09:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG530152-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206286
Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG530152-1 WG530152-2								
Methylene chloride	103		105		70-130	2		20
1,1-Dichloroethane	102		98		70-130	4		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	105		100		70-130	5		20
1,2-Dichloropropane	95		92		70-130	3		20
Dibromochloromethane	95		90		70-130	5		20
1,1,2-Trichloroethane	102		91		70-130	11		20
Tetrachloroethene	101		90		70-130	12		20
Chlorobenzene	95		93		70-130	2		20
Trichlorofluoromethane	105		104		70-130	1		20
1,2-Dichloroethane	102		98		70-130	4		20
1,1,1-Trichloroethane	102		98		70-130	4		20
Bromodichloromethane	96		96		70-130	0		20
trans-1,3-Dichloropropene	91		84		70-130	8		20
cis-1,3-Dichloropropene	95		95		70-130	0		20
1,1-Dichloropropene	99		97		70-130	2		20
Bromoform	89		93		70-130	4		20
1,1,2,2-Tetrachloroethane	89		90		70-130	1		20
Benzene	95		95		70-130	0		20
Toluene	93		88		70-130	6		20
Ethylbenzene	98		91		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206286
Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG530152-1 WG530152-2								
Chloromethane	106		102		70-130	4		20
Bromomethane	123		109		70-130	12		20
Vinyl chloride	105		102		70-130	3		20
Chloroethane	100		102		70-130	2		20
1,1-Dichloroethene	101		102		70-130	1		20
trans-1,2-Dichloroethene	99		96		70-130	3		20
Trichloroethene	94		96		70-130	2		20
1,2-Dichlorobenzene	86		92		70-130	7		20
1,3-Dichlorobenzene	90		95		70-130	5		20
1,4-Dichlorobenzene	89		95		70-130	7		20
Methyl tert butyl ether	99		92		70-130	7		20
p/m-Xylene	98		93		70-130	5		20
o-Xylene	99		94		70-130	5		20
cis-1,2-Dichloroethene	97		98		70-130	1		20
Dibromomethane	107		100		70-130	7		20
1,2,3-Trichloropropane	96		92		70-130	4		20
Styrene	97		95		70-130	2		20
Dichlorodifluoromethane	105		104		70-130	1		20
Acetone	114		100		70-130	13		20
Carbon disulfide	91		97		70-130	6		20
2-Butanone	104		90		70-130	14		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206286
Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG530152-1 WG530152-2								
4-Methyl-2-pentanone	112		96		70-130	15		20
2-Hexanone	109		88		70-130	**21**	Q	20
Bromochloromethane	99		100		70-130	1		20
Tetrahydrofuran	106		95		70-130	11		20
2,2-Dichloropropane	105		101		70-130	4		20
1,2-Dibromoethane	98		92		70-130	6		20
1,3-Dichloropropane	95		88		70-130	8		20
1,1,1,2-Tetrachloroethane	93		90		70-130	3		20
Bromobenzene	84		96		70-130	13		20
n-Butylbenzene	91		97		70-130	6		20
sec-Butylbenzene	89		93		70-130	4		20
tert-Butylbenzene	87		92		70-130	6		20
o-Chlorotoluene	90		95		70-130	5		20
p-Chlorotoluene	88		92		70-130	4		20
1,2-Dibromo-3-chloropropane	80		78		70-130	3		20
Hexachlorobutadiene	80		107		70-130	**29**	Q	20
Isopropylbenzene	100		91		70-130	9		20
p-Isopropyltoluene	91		97		70-130	6		20
Naphthalene	75		81		70-130	8		20
n-Propylbenzene	89		95		70-130	7		20
1,2,3-Trichlorobenzene	72		84		70-130	15		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1206286

Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG530152-1 WG530152-2								
1,2,4-Trichlorobenzene	77		81		70-130	5		20
1,3,5-Trimethylbenzene	90		95		70-130	5		20
1,2,4-Trimethylbenzene	89		95		70-130	7		20
Ethyl ether	111		101		70-130	9		20
Isopropyl Ether	93		95		70-130	2		20
Ethyl-Tert-Butyl-Ether	95		92		70-130	3		20
Tertiary-Amyl Methyl Ether	93		90		70-130	3		20
1,4-Dioxane	**136**	Q	119		70-130	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		99		70-130
Toluene-d8	100		95		70-130
4-Bromofluorobenzene	92		100		70-130
Dibromofluoromethane	109		105		70-130

PCBS

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206286
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-01	D	Date Collected:	04/10/12 14:00
Client ID:	INFLUENT		Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	97,8082		Extraction Date:	04/17/12 07:56
Analytical Date:	04/24/12 15:11		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	04/17/12
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	04/17/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	25.2	--	100
Aroclor 1221	ND		ug/l	25.2	--	100
Aroclor 1232	ND		ug/l	25.2	--	100
Aroclor 1242	ND		ug/l	25.2	--	100
Aroclor 1248	ND		ug/l	25.2	--	100
Aroclor 1260	ND		ug/l	25.2	--	100
Aroclor 1262	ND		ug/l	25.2	--	100
Aroclor 1268	ND		ug/l	25.2	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206286
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-01	D	Date Collected:	04/10/12 14:00
Client ID:	INFLUENT		Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	97,8082		Extraction Date:	04/17/12 07:56
Analytical Date:	04/24/12 15:11		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	04/17/12
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	04/17/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	683		ug/l	25.2	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206286
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-02	Date Collected:	04/10/12 14:20
Client ID:	POST CLAY	Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	04/17/12 07:56
Analytical Date:	04/18/12 11:19	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	04/17/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/17/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.252	--	1
Aroclor 1221	ND		ug/l	0.252	--	1
Aroclor 1232	ND		ug/l	0.252	--	1
Aroclor 1242	ND		ug/l	0.252	--	1
Aroclor 1248	ND		ug/l	0.252	--	1
Aroclor 1260	ND		ug/l	0.252	--	1
Aroclor 1262	ND		ug/l	0.252	--	1
Aroclor 1268	ND		ug/l	0.252	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	105		30-150
Decachlorobiphenyl	90		30-150
2,4,5,6-Tetrachloro-m-xylene	100		30-150
Decachlorobiphenyl	75		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206286
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-02	Date Collected:	04/10/12 14:20
Client ID:	POST CLAY	Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	04/17/12 07:56
Analytical Date:	04/18/12 11:19	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	04/17/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/17/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	1.54		ug/l	0.252	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	105		30-150
Decachlorobiphenyl	90		30-150
2,4,5,6-Tetrachloro-m-xylene	100		30-150
Decachlorobiphenyl	75		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206286
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID:	L1206286-04	Date Collected:	04/10/12 15:00
Client ID:	EFFLUENT	Date Received:	04/11/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	04/17/12 07:56
Analytical Date:	04/18/12 11:33	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	04/17/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/17/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.252	--	1
Aroclor 1221	ND		ug/l	0.252	--	1
Aroclor 1232	ND		ug/l	0.252	--	1
Aroclor 1242	ND		ug/l	0.252	--	1
Aroclor 1248	ND		ug/l	0.252	--	1
Aroclor 1254	ND		ug/l	0.252	--	1
Aroclor 1260	ND		ug/l	0.252	--	1
Aroclor 1262	ND		ug/l	0.252	--	1
Aroclor 1268	ND		ug/l	0.252	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	100		30-150
Decachlorobiphenyl	86		30-150
2,4,5,6-Tetrachloro-m-xylene	113		30-150
Decachlorobiphenyl	93		30-150

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1206286

Report Date: 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 04/18/12 01:15
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 04/17/12 07:56
Cleanup Method1: EPA 3665A
Cleanup Date1: 04/17/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 04/17/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02,04 Batch: WG529599-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--
Aroclor 1262	ND		ug/l	0.250	--
Aroclor 1268	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	64		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1206286

Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-02,04 Batch: WG529599-2 WG529599-3								
Aroclor 1016	76		83		40-140	9		20
Aroclor 1260	76		81		40-140	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		76		30-150
Decachlorobiphenyl	74		77		30-150
2,4,5,6-Tetrachloro-m-xylene	83		82		30-150
Decachlorobiphenyl	79		74		30-150

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206286
Report Date: 04/25/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1206286-01A	Vial HCl preserved	A	N/A	4.9	Y	Absent	MCP-8260-10(14)
L1206286-01B	Vial HCl preserved	A	N/A	4.9	Y	Absent	MCP-8260-10(14)
L1206286-01C	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	MCP-8082-10(365)
L1206286-01D	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	MCP-8082-10(365)
L1206286-02A	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	MCP-8082-10(365)
L1206286-02B	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	MCP-8082-10(365)
L1206286-03A	Vial HCl preserved	A	N/A	4.9	Y	Absent	MCP-8260-10(14)
L1206286-03B	Vial HCl preserved	A	N/A	4.9	Y	Absent	MCP-8260-10(14)
L1206286-04A	Vial HCl preserved	A	N/A	4.9	Y	Absent	MCP-8260-10(14)
L1206286-04B	Vial HCl preserved	A	N/A	4.9	Y	Absent	MCP-8260-10(14)
L1206286-04C	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	MCP-8082-10(365)
L1206286-04D	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	MCP-8082-10(365)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1206286
Project Number:	115058	**Report Date:**	04/25/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS IRA	**Lab Number:**	L1206286
Project Number:	115058	**Report Date:**	04/25/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206286
Report Date: 04/25/12

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/11/12

ALPHA Job #: L1206286

Client Information

Client: TRC

Address: 650 SUFFOLK ST. LOWELL MA

Phone: 978-970-5600

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM ALEONARD

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/25/12 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State /Fed Program MCP. Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	PCBs	Sample Specific Comments	Total # Bottles
6286-01	INFLUENT	4/10	14:00	I	JF	✓	✓		4
-02	POST CLAY	4/10	14:20	WW	JF		✓		2
-03	INTRA CARBON	4/10	14:40	WW	JF	✓			2
-04	EFFLUENT	4/10	15:00	E	JF	✓	✓		4

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Container Type	V	A
Preservative	B	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jason Ciriano	4/11/12	[illegible]	4-11-12 1405
[illegible]	4-11-12 1435	[illegible]	4/11/12

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:04251217:52

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206286

Instrument ID: Jack.i Calibration Date: 17-APR-2012 Time: 07:25

Lab File ID: 0417A02 Init. Calib. Date(s): 13-APR-2 13-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:55 13:54

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.80955	.85271	.1	-5	20	
chloromethane	1.0101	1.0686	.1	-6	20	
vinyl chloride	.82745	.87004	.1	-5	20	
bromomethane	.29195	.36036	.1	-23	20	F
chloroethane	.45272	.45293	.1	0	20	
trichlorofluoromethane	.88866	.93668	.1	-5	20	
ethyl ether	.27008	.29953	.05	-11	20	
1,1,-dichloroethene	.55362	.55775	.1	-1	20	
carbon disulfide	1.3254	1.2108	.1	9	20	
methylene chloride	.67041	.69059	.1	-3	20	
acetone	100	114	.1	-14	20	
trans-1,2-dichloroethene	100	98.993	.1	1	20	
methyl tert butyl ether	1.3882	1.3777	.1	1	20	
Ethyl-Tert-Butyl-Ether	1.8323	1.7444	.05	5	20	
Diisopropyl Ether	2.3899	2.2313	.01	7	20	
1,1-dichloroethane	1.2992	1.3311	.2	-2	20	
cis-1,2-dichloroethene	.74559	.72038	.1	3	20	
2,2-dichloropropane	.98576	1.0330	.05	-5	20	
bromochloromethane	.33451	.33172	.05	1	20	
chloroform	1.1739	1.1659	.2	1	20	
carbontetrachloride	.8619	.90693	.1	-5	20	
tetrahydrofuran	.18879	.19991	.05	-6	20	
1,1,1-trichloroethane	1.0423	1.0693	.1	-3	20	
Tertiary-Amyl Methyl Ether	1.3392	1.2482	.05	7	20	
1,1-dichloropropene	.89888	.88611	.05	1	20	
2-butanone	.23132	.24187	.1	-5	20	
benzene	2.6121	2.4885	.5	5	20	
1,2-dichloroethane	.84025	.85546	.1	-2	20	
trichloroethene	.68333	.6423	.2	6	20	
dibromomethane	.34217	.36778	.05	-7	20	
1,2-dichloropropane	.69128	.65498	.1	5	20	
bromodichloromethane	.78343	.75587	.2	4	20	
1,4-dioxane	10000	13586	.05	-36	20	F
cis-1,3-dichloropropene	.88947	.8439	.2	5	20	
toluene	2.1267	1.9784	.4	7	20	
tetrachloroethene	.83237	.84144	.2	-1	20	
4-methyl-2-pentanone	.15091	.1693	.1	-12	20	
trans-1,3-dichloropropene	.94417	.86233	.1	9	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206286

Instrument ID: Jack.i Calibration Date: 17-APR-2012 Time: 07:25

Lab File ID: 0417A02 Init. Calib. Date(s): 13-APR-2 13-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:55 13:54

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
1,1,2-trichloroethane	.44788	.45562	.1	-2	20	
chlorodibromomethane	100	94.979	.1	5	20	
1,3-dichloropropane	1.0108	.95638	.05	5	20	
1,2-dibromoethane	.53611	.52797	.1	2	20	
2-hexanone	.36147	.39295	.1	-9	20	
chlorobenzene	2.2617	2.1545	.5	5	20	
ethyl benzene	3.7370	3.6496	.1	2	20	
1,1,1,2-tetrachloroethane	.71727	.66855	.05	7	20	
p/m xylene	1.4831	1.4551	.1	2	20	
o xylene	1.4061	1.3896	.3	1	20	
styrene	2.3315	2.2633	.3	3	20	
bromoform	.6409	.57007	.1	11	20	
isopropylbenzene	3.4296	3.4125	.1	1	20	
bromobenzene	1.7942	1.5006	.05	16	20	
n-propylbenzene	7.2835	6.4785	.05	11	20	
1,1,2,2,-tetrachloroethane	1.1732	1.0414	.3	11	20	
2-chlorotoluene	5.3119	4.7985	.05	10	20	
1,2,3-trichloropropane	.98586	.95156	.05	3	20	
1,3,5-trimethybenzene	5.4551	4.9138	.05	10	20	
4-chorotoluene	4.9249	4.3597	.05	11	20	
tert-butylbenzene	4.4729	3.9051	.05	13	20	
1,2,4-trimethylbenzene	5.4925	4.8827	.05	11	20	
sec-butylbenzene	5.7373	5.0954	.01	11	20	
p-isopropyltoluene	4.9012	4.4740	.05	9	20	
1,3-dichlorobenzene	3.1365	2.8112	.6	10	20	
1,4-dichlorobenzene	3.1394	2.7983	.5	11	20	
n-butylbenzene	3.7283	3.3874	.05	9	20	
1,2-dichlorobenzene	3.0128	2.6061	.4	13	20	
1,2-dibromo-3-chloropropane	100	80.107	.05	20	20	
hexachlorobutadiene	.49459	.39337	.05	20	20	F
1,2,4-trichlorobenzene	100	76.803	.2	23	20	F
naphthalene	100	74.916	.05	25	20	F
1,2,3-trichlorobenzene	100	71.960	.05	28	20	F
dibromofluoromethane	.2605	.2828	.05	-9	20	
1,2-dichloroethane-d4	.29613	.31532	.05	-6	20	
toluene-d8	1.2508	1.2555	.01	0	20	
4-bromofluorobenzene	.93143	.85733	.05	8	20	

FORM VII MCP-8260-10

ANALYTICAL REPORT

Lab Number:	L1206773
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	05/02/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1206773-01	INFLUENT	NEW BEDFORD, MA	04/17/12 13:00
L1206773-02	POST CLAY	NEW BEDFORD, MA	04/17/12 13:20
L1206773-03	INTRA CARBON	NEW BEDFORD, MA	04/17/12 13:40
L1206773-04	EFFLUENT	NEW BEDFORD, MA	04/17/12 16:00

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: NBHS IRA **Lab Number:** L1206773
Project Number: 115058 **Report Date:** 05/02/12

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

L1206773-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L1206773-01 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

In reference to question G:

L1206773-01: None of the target analytes achieved the requested CAM reporting limits.

In reference to question G:

L1206773-03 and -04: Tetrahydrofuran did not achieve the requested CAM reporting limit.

In reference to question H:

The WG531170-1 LCS recovery, associated with L1206773-01, -03, and -04, is above the acceptance criteria for 1,4-Dioxane (153%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated samples are reported; however, all positive detects are considered to have a potentially high bias for this compound.

The WG531170-1/-2 LCS/LCSD RPDs, associated with L1206773-01, -03, and -04, are above the acceptance criteria for Acetone (21%) and 1,4-Dioxane (26%).

The WG531170-4/-5 LCS/LCSD RPDs, associated with L1206773-01, are above the acceptance criteria for Acetone (25%), 2-Hexanone (23%), and 1,4-Dioxane (23%).

The continuing calibration standard, associated with L1206773-01, -03, and -04, utilized a quadratic fit for Dibromochloromethane, trans-1,2-Dichloroethene, Acetone, 1,2-Dibromo-3-chloropropane, Naphthalene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, and 1,4-Dioxane.

The continuing calibration standards, associated with L1206773-01, -03, and -04, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

Project Name: NBHS IRA **Lab Number:** L1206773
Project Number: 115058 **Report Date:** 05/02/12

Case Narrative (continued)

PCBs

L1206773-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question G:

L1206773-01: None of the target analytes achieved the requested CAM reporting limits.

In reference to question H:

The surrogate recoveries for L1206773-01 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (All at 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 05/02/12

ORGANICS

VOLATILES

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID:	L1206773-01	D2	Date Collected:	04/17/12 13:00
Client ID:	INFLUENT		Date Received:	04/18/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	04/24/12 11:03			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	3200		ug/l	100	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID:	L1206773-01	D	Date Collected:	04/17/12 13:00
Client ID:	INFLUENT		Date Received:	04/18/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	04/23/12 14:10			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	40	--	20
1,1-Dichloroethane	ND		ug/l	20	--	20
Chloroform	ND		ug/l	20	--	20
Carbon tetrachloride	ND		ug/l	20	--	20
1,2-Dichloropropane	ND		ug/l	20	--	20
Dibromochloromethane	ND		ug/l	20	--	20
1,1,2-Trichloroethane	ND		ug/l	20	--	20
Tetrachloroethene	ND		ug/l	20	--	20
Chlorobenzene	ND		ug/l	20	--	20
Trichlorofluoromethane	ND		ug/l	40	--	20
1,2-Dichloroethane	ND		ug/l	20	--	20
1,1,1-Trichloroethane	ND		ug/l	20	--	20
Bromodichloromethane	ND		ug/l	20	--	20
trans-1,3-Dichloropropene	ND		ug/l	10	--	20
cis-1,3-Dichloropropene	ND		ug/l	10	--	20
1,1-Dichloropropene	ND		ug/l	40	--	20
Bromoform	ND		ug/l	40	--	20
1,1,2,2-Tetrachloroethane	ND		ug/l	20	--	20
Benzene	ND		ug/l	10	--	20
Toluene	ND		ug/l	20	--	20
Ethylbenzene	30		ug/l	20	--	20
Chloromethane	ND		ug/l	40	--	20
Bromomethane	ND		ug/l	40	--	20
Vinyl chloride	550		ug/l	20	--	20
Chloroethane	ND		ug/l	40	--	20
1,1-Dichloroethene	ND		ug/l	20	--	20
trans-1,2-Dichloroethene	550		ug/l	20	--	20
Trichloroethene	3400	E	ug/l	20	--	20
1,2-Dichlorobenzene	ND		ug/l	20	--	20
1,3-Dichlorobenzene	ND		ug/l	20	--	20
1,4-Dichlorobenzene	38		ug/l	20	--	20

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID: L1206773-01 D Date Collected: 04/17/12 13:00

Client ID: INFLUENT Date Received: 04/18/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	40	--	20
p/m-Xylene	ND		ug/l	40	--	20
o-Xylene	ND		ug/l	20	--	20
cis-1,2-Dichloroethene	1800		ug/l	20	--	20
Dibromomethane	ND		ug/l	40	--	20
1,2,3-Trichloropropane	ND		ug/l	40	--	20
Styrene	21		ug/l	20	--	20
Dichlorodifluoromethane	ND		ug/l	40	--	20
Acetone	ND		ug/l	100	--	20
Carbon disulfide	ND		ug/l	40	--	20
2-Butanone	ND		ug/l	100	--	20
4-Methyl-2-pentanone	ND		ug/l	100	--	20
2-Hexanone	ND		ug/l	100	--	20
Bromochloromethane	ND		ug/l	40	--	20
Tetrahydrofuran	ND		ug/l	100	--	20
2,2-Dichloropropane	ND		ug/l	40	--	20
1,2-Dibromoethane	ND		ug/l	40	--	20
1,3-Dichloropropane	ND		ug/l	40	--	20
1,1,1,2-Tetrachloroethane	ND		ug/l	20	--	20
Bromobenzene	ND		ug/l	40	--	20
n-Butylbenzene	ND		ug/l	40	--	20
sec-Butylbenzene	ND		ug/l	40	--	20
tert-Butylbenzene	ND		ug/l	40	--	20
o-Chlorotoluene	ND		ug/l	40	--	20
p-Chlorotoluene	ND		ug/l	40	--	20
1,2-Dibromo-3-chloropropane	ND		ug/l	40	--	20
Hexachlorobutadiene	ND		ug/l	12	--	20
Isopropylbenzene	ND		ug/l	40	--	20
p-Isopropyltoluene	ND		ug/l	40	--	20
Naphthalene	ND		ug/l	40	--	20
n-Propylbenzene	ND		ug/l	40	--	20
1,2,3-Trichlorobenzene	ND		ug/l	40	--	20
1,2,4-Trichlorobenzene	73		ug/l	40	--	20
1,3,5-Trimethylbenzene	ND		ug/l	40	--	20
1,2,4-Trimethylbenzene	ND		ug/l	40	--	20
Ethyl ether	ND		ug/l	40	--	20
Isopropyl Ether	ND		ug/l	40	--	20
Ethyl-Tert-Butyl-Ether	ND		ug/l	40	--	20
Tertiary-Amyl Methyl Ether	ND		ug/l	40	--	20

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID: L1206773-01 D Date Collected: 04/17/12 13:00

Client ID: INFLUENT Date Received: 04/18/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	5000	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	111		70-130

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID:	L1206773-03	Date Collected:	04/17/12 13:40
Client ID:	INTRA CARBON	Date Received:	04/18/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/23/12 14:42		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID: L1206773-03 Date Collected: 04/17/12 13:40

Client ID: INTRA CARBON Date Received: 04/18/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	8.5		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID: L1206773-03 Date Collected: 04/17/12 13:40

Client ID: INTRA CARBON Date Received: 04/18/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	115		70-130

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID:	L1206773-04	Date Collected:	04/17/12 16:00
Client ID:	EFFLUENT	Date Received:	04/18/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	04/23/12 15:15		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID: L1206773-04 Date Collected: 04/17/12 16:00

Client ID: EFFLUENT Date Received: 04/18/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	16		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID: L1206773-04 Date Collected: 04/17/12 16:00

Client ID: EFFLUENT Date Received: 04/18/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	119		70-130

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/23/12 08:45
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG531170-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/23/12 08:45
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG531170-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/23/12 08:45
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG531170-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	113		70-130

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/24/12 08:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG531170-6					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/24/12 08:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG531170-6					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/24/12 08:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG531170-6					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG531170-1 WG531170-2								
Methylene chloride	100		98		70-130	2		20
1,1-Dichloroethane	100		95		70-130	5		20
Chloroform	97		95		70-130	2		20
Carbon tetrachloride	106		100		70-130	6		20
1,2-Dichloropropane	95		92		70-130	3		20
Dibromochloromethane	97		92		70-130	5		20
1,1,2-Trichloroethane	95		94		70-130	1		20
Tetrachloroethene	96		94		70-130	2		20
Chlorobenzene	96		92		70-130	4		20
Trichlorofluoromethane	104		103		70-130	1		20
1,2-Dichloroethane	104		98		70-130	6		20
1,1,1-Trichloroethane	103		97		70-130	6		20
Bromodichloromethane	98		96		70-130	2		20
trans-1,3-Dichloropropene	95		88		70-130	8		20
cis-1,3-Dichloropropene	101		99		70-130	2		20
1,1-Dichloropropene	97		94		70-130	3		20
Bromoform	95		90		70-130	5		20
1,1,2,2-Tetrachloroethane	94		85		70-130	10		20
Benzene	96		93		70-130	3		20
Toluene	92		91		70-130	1		20
Ethylbenzene	96		92		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG531170-1 WG531170-2								
Chloromethane	104		99		70-130	5		20
Bromomethane	111		123		70-130	10		20
Vinyl chloride	103		100		70-130	3		20
Chloroethane	101		107		70-130	6		20
1,1-Dichloroethene	102		100		70-130	2		20
trans-1,2-Dichloroethene	99		98		70-130	1		20
Trichloroethene	94		93		70-130	1		20
1,2-Dichlorobenzene	90		90		70-130	0		20
1,3-Dichlorobenzene	94		93		70-130	1		20
1,4-Dichlorobenzene	94		94		70-130	0		20
Methyl tert butyl ether	102		94		70-130	8		20
p/m-Xylene	98		95		70-130	3		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	98		92		70-130	6		20
Dibromomethane	108		95		70-130	13		20
1,2,3-Trichloropropane	96		85		70-130	12		20
Styrene	100		98		70-130	2		20
Dichlorodifluoromethane	92		88		70-130	4		20
Acetone	129		105		70-130	**21**	Q	20
Carbon disulfide	100		102		70-130	2		20
2-Butanone	117		108		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG531170-1 WG531170-2								
4-Methyl-2-pentanone	108		93		70-130	15		20
2-Hexanone	115		97		70-130	17		20
Bromochloromethane	93		100		70-130	7		20
Tetrahydrofuran	120		101		70-130	17		20
2,2-Dichloropropane	107		102		70-130	5		20
1,2-Dibromoethane	98		93		70-130	5		20
1,3-Dichloropropane	95		89		70-130	7		20
1,1,1,2-Tetrachloroethane	95		93		70-130	2		20
Bromobenzene	93		91		70-130	2		20
n-Butylbenzene	96		94		70-130	2		20
sec-Butylbenzene	92		88		70-130	4		20
tert-Butylbenzene	89		87		70-130	2		20
o-Chlorotoluene	92		88		70-130	4		20
p-Chlorotoluene	91		89		70-130	2		20
1,2-Dibromo-3-chloropropane	109		104		70-130	5		20
Hexachlorobutadiene	95		104		70-130	9		20
Isopropylbenzene	99		95		70-130	4		20
p-Isopropyltoluene	96		90		70-130	6		20
Naphthalene	121		115		70-130	5		20
n-Propylbenzene	94		87		70-130	8		20
1,2,3-Trichlorobenzene	107		116		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG531170-1 WG531170-2								
1,2,4-Trichlorobenzene	110		105		70-130	5		20
1,3,5-Trimethylbenzene	93		90		70-130	3		20
1,2,4-Trimethylbenzene	94		90		70-130	4		20
Ethyl ether	111		100		70-130	10		20
Isopropyl Ether	98		95		70-130	3		20
Ethyl-Tert-Butyl-Ether	101		97		70-130	4		20
Tertiary-Amyl Methyl Ether	102		95		70-130	7		20
1,4-Dioxane	**153**	Q	118		70-130	**26**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		95		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	99		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG531170-4 WG531170-5								
Methylene chloride	98		98		70-130	2		20
1,1-Dichloroethane	94		93		70-130	7		20
Chloroform	93		92		70-130	5		20
Carbon tetrachloride	97		102		70-130	4		20
1,2-Dichloropropane	90		95		70-130	0		20
Dibromochloromethane	87		87		70-130	11		20
1,1,2-Trichloroethane	91		91		70-130	4		20
Tetrachloroethene	92		90		70-130	6		20
Chlorobenzene	90		87		70-130	10		20
Trichlorofluoromethane	100		102		70-130	2		20
1,2-Dichloroethane	98		96		70-130	8		20
1,1,1-Trichloroethane	95		96		70-130	7		20
Bromodichloromethane	90		92		70-130	6		20
trans-1,3-Dichloropropene	84		86		70-130	10		20
cis-1,3-Dichloropropene	91		95		70-130	6		20
1,1-Dichloropropene	97		94		70-130	3		20
Bromoform	76		87		70-130	9		20
1,1,2,2-Tetrachloroethane	82		87		70-130	8		20
Benzene	93		91		70-130	5		20
Toluene	87		85		70-130	8		20
Ethylbenzene	89		87		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG531170-4 WG531170-5								
Chloromethane	92		96		70-130	8		20
Bromomethane	103		98		70-130	12		20
Vinyl chloride	98		98		70-130	5		20
Chloroethane	99		98		70-130	3		20
1,1-Dichloroethene	98		99		70-130	3		20
trans-1,2-Dichloroethene	93		94		70-130	5		20
Trichloroethene	90		92		70-130	2		20
1,2-Dichlorobenzene	86		88		70-130	2		20
1,3-Dichlorobenzene	87		90		70-130	4		20
1,4-Dichlorobenzene	89		92		70-130	2		20
Methyl tert butyl ether	97		96		70-130	6		20
p/m-Xylene	91		89		70-130	10		20
o-Xylene	90		90		70-130	9		20
cis-1,2-Dichloroethene	90		92		70-130	6		20
Dibromomethane	96		96		70-130	12		20
1,2,3-Trichloropropane	88		92		70-130	4		20
Styrene	92		91		70-130	9		20
Dichlorodifluoromethane	91		91		70-130	1		20
Acetone	114		100		70-130	**25**	Q	20
Carbon disulfide	92		92		70-130	8		20
2-Butanone	106		96		70-130	20		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG531170-4 WG531170-5								
4-Methyl-2-pentanone	105		94		70-130	14		20
2-Hexanone	93		91		70-130	**23**	Q	20
Bromochloromethane	96		96		70-130	3		20
Tetrahydrofuran	105		100		70-130	18		20
2,2-Dichloropropane	99		99		70-130	8		20
1,2-Dibromoethane	90		92		70-130	6		20
1,3-Dichloropropane	86		87		70-130	9		20
1,1,1,2-Tetrachloroethane	85		88		70-130	8		20
Bromobenzene	84		88		70-130	6		20
n-Butylbenzene	86		88		70-130	9		20
sec-Butylbenzene	85		88		70-130	4		20
tert-Butylbenzene	83		84		70-130	6		20
o-Chlorotoluene	85		89		70-130	3		20
p-Chlorotoluene	82		88		70-130	3		20
1,2-Dibromo-3-chloropropane	89		100		70-130	9		20
Hexachlorobutadiene	98		98		70-130	3		20
Isopropylbenzene	87		87		70-130	13		20
p-Isopropyltoluene	87		90		70-130	6		20
Naphthalene	109		113		70-130	7		20
n-Propylbenzene	84		86		70-130	9		20
1,2,3-Trichlorobenzene	110		117		70-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG531170-4 WG531170-5								
1,2,4-Trichlorobenzene	104		105		70-130	5		20
1,3,5-Trimethylbenzene	85		88		70-130	6		20
1,2,4-Trimethylbenzene	86		87		70-130	8		20
Ethyl ether	103		107		70-130	4		20
Isopropyl Ether	93		92		70-130	6		20
Ethyl-Tert-Butyl-Ether	96		96		70-130	5		20
Tertiary-Amyl Methyl Ether	93		93		70-130	9		20
1,4-Dioxane	130		122		70-130	**23**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	94		93		70-130
Dibromofluoromethane	101		105		70-130

PCBS

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206773
Report Date: 05/02/12

SAMPLE RESULTS

Lab ID:	L1206773-01	D	Date Collected:	04/17/12 13:00
Client ID:	INFLUENT		Date Received:	04/18/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	97,8082		Extraction Date:	04/26/12 08:15
Analytical Date:	05/01/12 16:54		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	04/26/12
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	04/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	5.05	--	20
Aroclor 1221	ND		ug/l	5.05	--	20
Aroclor 1232	ND		ug/l	5.05	--	20
Aroclor 1242	ND		ug/l	5.05	--	20
Aroclor 1248	ND		ug/l	5.05	--	20
Aroclor 1260	ND		ug/l	5.05	--	20
Aroclor 1262	ND		ug/l	5.05	--	20
Aroclor 1268	ND		ug/l	5.05	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1206773

Project Number: 115058 **Report Date:** 05/02/12

SAMPLE RESULTS

Lab ID:	L1206773-01	D	Date Collected:	04/17/12 13:00
Client ID:	INFLUENT		Date Received:	04/18/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	97,8082		Extraction Date:	04/26/12 08:15
Analytical Date:	05/01/12 16:54		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	04/26/12
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	04/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	178		ug/l	5.05	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206773
Report Date: 05/02/12

SAMPLE RESULTS

Lab ID:	L1206773-02	Date Collected:	04/17/12 13:20
Client ID:	POST CLAY	Date Received:	04/18/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	04/26/12 08:15
Analytical Date:	05/01/12 17:08	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/26/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	0.424		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	105		30-150
Decachlorobiphenyl	101		30-150
2,4,5,6-Tetrachloro-m-xylene	102		30-150
Decachlorobiphenyl	89		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206773
Report Date: 05/02/12

SAMPLE RESULTS

Lab ID:	L1206773-04	Date Collected:	04/17/12 16:00
Client ID:	EFFLUENT	Date Received:	04/18/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	04/26/12 08:15
Analytical Date:	04/26/12 21:27	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/26/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	90		30-150
Decachlorobiphenyl	88		30-150
2,4,5,6-Tetrachloro-m-xylene	114		30-150
Decachlorobiphenyl	124		30-150

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1206773

Report Date: 05/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 04/26/12 20:19
Analyst: GT

Extraction Method: EPA 3510C
Extraction Date: 04/26/12 08:15
Cleanup Method1: EPA 3665A
Cleanup Date1: 04/26/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 04/26/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02,04 Batch: WG531714-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--
Aroclor 1262	ND		ug/l	0.250	--
Aroclor 1268	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	107		30-150
Decachlorobiphenyl	100		30-150
2,4,5,6-Tetrachloro-m-xylene	109		30-150
Decachlorobiphenyl	117		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1206773

Report Date: 05/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-02,04 Batch: WG531714-2 WG531714-3								
Aroclor 1016	94		98		40-140	4		20
Aroclor 1260	98		109		40-140	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	102		104		30-150
Decachlorobiphenyl	105		115		30-150
2,4,5,6-Tetrachloro-m-xylene	115		111		30-150
Decachlorobiphenyl	118		119		30-150

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206773
Report Date: 05/02/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1206773-01A	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1206773-01B	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1206773-01C	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	MCP-8082-10(365)
L1206773-01D	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	MCP-8082-10(365)
L1206773-02A	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	MCP-8082-10(365)
L1206773-02B	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	MCP-8082-10(365)
L1206773-03A	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1206773-03B	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1206773-04A	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1206773-04B	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1206773-04C	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	MCP-8082-10(365)
L1206773-04D	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	MCP-8082-10(365)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1206773
Project Number:	115058	**Report Date:**	05/02/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS IRA	**Lab Number:**	L1206773
Project Number:	115058	**Report Date:**	05/02/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206773
Report Date: 05/02/12

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 4/18/12

ALPHA Job #: L1206773

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

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Fax:
Email: DSULLIVAN ALEONARD @TRCSOLUTIONS.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD MA
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/2/12 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State /Fed Program MCP. Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: VOCs, PCBs

SAMPLE HANDLING
Filtration
☐ Done
☑ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	PCBs	Sample Specific Comments	TOTAL # BOTTLES
06773.1	INFLUENT	4/17/12	13:00	I		✓	✓	~430 ppm HEADSPACE	4
2	POST CLAY	"	13:20	WW			✓		2
3	INTRA CARBON	"	13:40	WW		✓			2
4	EFFLUENT	"	16:00	E		✓	✓	0 ppm HEADSPACE	4

Container Type	V	A
Preservative	B	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jason C. Fino	4/17/12 17:50	D Sullivan	4/17/12 17:50
[illegible]	4/18/12 0800	[illegible]	4/18/12 8:00
[illegible]	4/18/12 17:45	[illegible]	4/18/12 17:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:05021214:19

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206773

Instrument ID: Jack.i Calibration Date: 24-APR-2012 Time: 07:14

Lab File ID: 0424A02 Init. Calib. Date(s): 13-APR-2 13-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:55 13:54

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.80955	.73705	.1	9	20	
chloromethane	1.0101	.9272	.1	8	20	
vinyl chloride	.82745	.81332	.1	2	20	
bromomethane	.29195	.30171	.1	-3	20	
chloroethane	.45272	.44798	.1	1	20	
trichlorofluoromethane	.88866	.88644	.1	0	20	
ethyl ether	.27008	.27789	.05	-3	20	
1,1,-dichloroethene	.55362	.53999	.1	2	20	
carbon disulfide	1.3254	1.2236	.1	8	20	
methylene chloride	.67041	.65475	.1	2	20	
acetone	100	114	.1	-14	20	
trans-1,2-dichloroethene	100	93.176	.1	7	20	
methyl tert butyl ether	1.3882	1.3519	.1	3	20	
Ethyl-Tert-Butyl-Ether	1.8323	1.7639	.05	4	20	
Diisopropyl Ether	2.3899	2.2254	.01	7	20	
1,1-dichloroethane	1.2992	1.2213	.2	6	20	
cis-1,2-dichloroethene	.74559	.67337	.1	10	20	
2,2-dichloropropane	.98576	.97904	.05	1	20	
bromochloromethane	.33451	.32109	.05	4	20	
chloroform	1.1739	1.0910	.2	7	20	
carbontetrachloride	.8619	.83262	.1	3	20	
tetrahydrofuran	.18879	.19793	.05	-5	20	
1,1,1-trichloroethane	1.0423	.99154	.1	5	20	
Tertiary-Amyl Methyl Ether	1.3392	1.2516	.05	7	20	
1,1-dichloropropene	.89888	.86874	.05	3	20	
2-butanone	.23132	.24629	.1	-6	20	
benzene	2.6121	2.4361	.5	7	20	
1,2-dichloroethane	.84025	.81904	.1	3	20	
trichloroethene	.68333	.61574	.2	10	20	
dibromomethane	.34217	.32936	.05	4	20	
1,2-dichloropropane	.69128	.62485	.1	10	20	
bromodichloromethane	.78343	.706	.2	10	20	
1,4-dioxane	10000	13003	.05	-30	20	F
cis-1,3-dichloropropene	.88947	.80865	.2	9	20	
toluene	2.1267	1.8438	.4	13	20	
tetrachloroethene	.83237	.76689	.2	8	20	
4-methyl-2-pentanone	.15091	.15907	.1	-5	20	
trans-1,3-dichloropropene	.94417	.79264	.1	16	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206773

Instrument ID: Jack.i Calibration Date: 24-APR-2012 Time: 07:14

Lab File ID: 0424A02 Init. Calib. Date(s): 13-APR-2 13-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:55 13:54

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
1,1,2-trichloroethane	.44788	.40886	.1	9	20	
chlorodibromomethane	100	86.859	.1	13	20	
1,3-dichloropropane	1.0108	.86992	.05	14	20	
1,2-dibromoethane	.53611	.48287	.1	10	20	
2-hexanone	.36147	.33733	.1	7	20	
chlorobenzene	2.2617	2.0240	.5	11	20	
ethyl benzene	3.7370	3.3188	.1	11	20	
1,1,1,2-tetrachloroethane	.71727	.61291	.05	15	20	
p/m xylene	1.4831	1.3545	.1	9	20	
o xylene	1.4061	1.2712	.3	10	20	
styrene	2.3315	2.1470	.3	8	20	
bromoform	.6409	.48958	.1	24	20	F
isopropylbenzene	3.4296	2.9994	.1	13	20	
bromobenzene	1.7942	1.5157	.05	16	20	
n-propylbenzene	7.2835	6.1398	.05	16	20	
1,1,2,2,-tetrachloroethane	1.1732	.96292	.3	18	20	
2-chlorotoluene	5.3119	4.5147	.05	15	20	
1,2,3-trichloropropane	.98586	.86711	.05	12	20	
1,3,5-trimethybenzene	5.4551	4.6323	.05	15	20	
4-chorotoluene	4.9249	4.0372	.05	18	20	
tert-butylbenzene	4.4729	3.7135	.05	17	20	
1,2,4-trimethylbenzene	5.4925	4.7207	.05	14	20	
sec-butylbenzene	5.7373	4.8899	.01	15	20	
p-isopropyltoluene	4.9012	4.2684	.05	13	20	
1,3-dichlorobenzene	3.1365	2.7254	.6	13	20	
1,4-dichlorobenzene	3.1394	2.7820	.5	11	20	
n-butylbenzene	3.7283	3.2021	.05	14	20	
1,2-dichlorobenzene	3.0128	2.5990	.4	14	20	
1,2-dibromo-3-chloropropane	100	89.034	.05	11	20	
hexachlorobutadiene	.49459	.48374	.05	2	20	
1,2,4-trichlorobenzene	100	105	.2	-5	20	
naphthalene	100	109	.05	-9	20	
1,2,3-trichlorobenzene	100	110	.05	-10	20	
dibromofluoromethane	.2605	.2624	.05	-1	20	
1,2-dichloroethane-d4	.29613	.30041	.05	-1	20	
toluene-d8	1.2508	1.1889	.01	5	20	
4-bromofluorobenzene	.93143	.87138	.05	6	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206773

Instrument ID: Jack.i Calibration Date: 23-APR-2012 Time: 07:07

Lab File ID: 0423A02 Init. Calib. Date(s): 13-APR-2 13-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:55 13:54

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.80955	.74914	.1	7	20	
chloromethane	1.0101	1.0466	.1	-4	20	
vinyl chloride	.82745	.85467	.1	-3	20	
bromomethane	.29195	.32438	.1	-11	20	
chloroethane	.45272	.45736	.1	-1	20	
trichlorofluoromethane	.88866	.92833	.1	-4	20	
ethyl ether	.27008	.30065	.05	-11	20	
1,1,-dichloroethene	.55362	.56254	.1	-2	20	
carbon disulfide	1.3254	1.3281	.1	0	20	
freon-113	.5451	.58131	.1	-7	20	
iodomethane	100	116	.05	-16	20	
acrolien	.03348	.04271	.05	-28	20	F
methylene chloride	.67041	.67131	.1	0	20	
acetone	100	129	.1	-29	20	F
trans-1,2-dichloroethene	100	99	.1	1	20	
methyl acetate	.42736	.46804	.1	-10	20	
methyl tert butyl ether	1.3882	1.4170	.1	-2	20	
Diisopropyl Ether	2.3899	2.3342	.01	2	20	
tert butyl alcohol	.04383	.04185	.05	5	20	F
1,1-dichloroethane	1.2992	1.2980	.2	0	20	
Halothane	.48741	.48406	.05	1	20	
Ethyl-Tert-Butyl-Ether	1.8323	1.8453	.05	-1	20	
vinyl acetate	1.0724	1.2563	.05	-17	20	
acrylonitrile	.18929	.21023	.05	-11	20	
cis-1,2-dichloroethene	.74559	.73	.1	2	20	
2,2-dichloropropane	.98576	1.0564	.05	-7	20	
bromochloromethane	.33451	.31084	.05	7	20	
chloroform	1.1739	1.1419	.2	3	20	
carbontetrachloride	.8619	.91692	.1	-6	20	
ethyl acetate	.51168	.58586	.05	-14	20	
tetrahydrofuran	.18879	.2256	.05	-20	20	
1,1,1-trichloroethane	1.0423	1.0706	.1	-3	20	
1,1-dichloropropene	.89888	.86812	.05	3	20	
2-butanone	.23132	.27163	.1	-17	20	
benzene	2.6121	2.5038	.5	4	20	
Tertiary-Amyl Methyl Ether	1.3392	1.3663	.05	-2	20	
1,2-dichloroethane	.84025	.87323	.1	-4	20	
trichloroethene	.68333	.64101	.2	6	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206773

Instrument ID: Jack.i Calibration Date: 23-APR-2012 Time: 07:07

Lab File ID: 0423A02 Init. Calib. Date(s): 13-APR-2 13-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:55 13:54

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dibromomethane	.34217	.36811	.05	-8	20	
1,2-dichloropropane	.69128	.65826	.1	5	20	
bromodichloromethane	.78343	.77019	.2	2	20	
1,4-dioxane	10000	15318	.05	-53	20	F
cis-1,3-dichloropropene	.88947	.90072	.2	-1	20	
toluene	2.1267	1.9682	.4	7	20	
2-chloroethylvinyl ether	.16675	.18068	.05	-8	20	
tetrachloroethene	.83237	.80097	.2	4	20	
4-methyl-2-pentanone	.15091	.16303	.1	-8	20	
trans-1,3-dichloropropene	.94417	.89531	.1	5	20	
1,1,2-trichloroethane	.44788	.42466	.1	5	20	
chlorodibromomethane	100	96.768	.1	3	20	
1,3-dichloropropane	1.0108	.95915	.05	5	20	
1,2-dibromoethane	.53611	.52692	.1	2	20	
2-hexanone	.36147	.4159	.1	-15	20	
chlorobenzene	2.2617	2.1651	.5	4	20	
ethyl benzene	3.7370	3.5773	.1	4	20	
1,1,1,2-tetrachloroethane	.71727	.67961	.05	5	20	
p/m xylene	1.4831	1.4573	.1	2	20	
o xylene	1.4061	1.3794	.3	2	20	
bromoform	.6409	.61081	.1	5	20	
styrene	2.3315	2.3432	.3	-1	20	
isopropylbenzene	3.4296	3.4004	.1	1	20	
bromobenzene	1.7942	1.6643	.05	7	20	
n-propylbenzene	7.2835	6.8615	.05	6	20	
1,1,2,2,-tetrachloroethane	1.1732	1.1046	.3	6	20	
4-ethyltoluene	6.1749	5.7978	.05	6	20	
2-chlorotoluene	5.3119	4.8633	.05	8	20	
1,2,3-trichloropropane	.98586	.94524	.05	4	20	
1,3,5-trimethybenzene	5.4551	5.0512	.05	7	20	
trans-1,4-dichloro-2-butene	.38826	.39503	.05	-2	20	
4-chorotoluene	4.9249	4.4737	.05	9	20	
tert-butylbenzene	4.4729	3.9992	.05	11	20	
1,2,4-trimethylbenzene	5.4925	5.1459	.05	6	20	
sec-butylbenzene	5.7373	5.2597	.01	8	20	
p-isopropyltoluene	4.9012	4.6915	.05	4	20	
1,3-dichlorobenzene	3.1365	2.9459	.6	6	20	
1,4-dichlorobenzene	3.1394	2.9672	.5	5	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206773

Instrument ID: Jack.i Calibration Date: 23-APR-2012 Time: 07:07

Lab File ID: 0423A02 Init. Calib. Date(s): 13-APR-2 13-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 07:55 13:54

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
p-diethylbenzene	2.7652	2.6760	.05	3	20	
n-butylbenzene	3.7283	3.5688	.05	4	20	
1,2-dichlorobenzene	3.0128	2.7166	.4	10	20	
1,2,4,5-tetramethylbenzene	4.0798	4.0790	.05	0	20	
1,2-dibromo-3-chloropropane	100	109	.05	-9	20	
1,3,5-trichlorobenzene	.6297	.69445	.05	-10	20	
1,2,4-trichlorobenzene	100	110	.2	-10	20	
hexachlorobutadiene	.49459	.47183	.05	5	20	
naphthalene	100	121	.05	-21	20	F
1,2,3-trichlorobenzene	100	107	.05	-7	20	
dibromofluoromethane	.2605	.25868	.05	1	20	
1,2-dichloroethane-d4	.29613	.3071	.05	-4	20	
toluene-d8	1.2508	1.2118	.01	3	20	
4-bromofluorobenzene	.93143	.89071	.05	4	20	

FORM VII MCP-8260-10

System Monitoring
(Air Phase)

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: 115058 NBHS PCB SAMPLING
Sampling Date(s): March 27, 2012
Lab Report ID: 12030275
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis (TO-10A)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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CASE NARRATIVE

April 15, 2012

CASE NARRATIVE

This data package (SDG ID: 12030275) consists of 2 polyurethane foam samples received on 03/29/2012. The samples are from Project Name: 115058 NBHS PCB SAMPLING.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AP03716	INFLUENT	03/27/2012 15:55
AP03717	EFFLUENT	03/27/2012 15:50

1

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via FEDEX delivery service on 03/29/2012.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) The following cooler temperature was recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 1.0 degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by EPA Method TO-10A/EPA Method 8082 with Dual GC Column Analysis. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.

(2.) The concentration result for Aroclor 1248 was flagged (PE) to denote that Aroclor 1248 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1248 was not presumed to be present in the sample(s). Please see associated Form 1 for details.

(3.) The percent recovery for the DCBP surrogate exceeded quality acceptance limits for sample (LAB ID: AP03716) on the primary column. The alternate TCMX surrogate was within acceptance limits. Please see associated Form 2 for details.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
(2.) J-Denotes concentration result greater than the MDL but less than the RL.
(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

William A. Kotas
Client Services Manager

S:\Lims Data\1203\12030275\Package\CN_12030275_Rev00.doc

April 23, 2012

Communication Log

From: Leonard, Alfred (Lowell,MA-US) [<mailto:ALeonard@trcsolutions.com>]
Sent: Thursday, March 29, 2012 16:03
To: William Kotas
Cc: Fiero, Jason (Lowell,MA-US); Jason Fiero
Subject: RE: Vapor Phase Sampling at NBHS Analysis Method ?

Bill:
We will go with the Aroclor analysis on this round and maybe look at the chromatogram. This will become a regular sampling program and I am guessing that we will do 680 analyses in one of the later rounds.

Alfred C. Leonard

Work 978-656-3689
Cell 978-844-1178

From: William Kotas [<mailto:williamk@nealab.com>]
Sent: Thursday, March 29, 2012 3:07 PM
To: Leonard, Alfred (Lowell,MA-US)
Subject: Vapor Phase Sampling at NBHS Analysis Method ?

Hello Alfred,

I discussed with Jason Fiero and Jason asked that I contact you. In regard to the TO-10A analysis we are performing on the Vapor Train samples (coc attached) can you tell me if you need EPA TO-10A Aroclor analysis or the TO-10A/EPA 680 analysis that we routinely do for NBHS monitoring ?

My guess is that you need the TO-10A Aroclor analysis for however I wanted to double check before we start the analysis.

Please feel free to call if you need to discuss

Best Regards,

-Bill

William A. Kotas
Client Services Manager

Pace Analytical Services, Inc.

2190 Technology Drive
Schenectady, NY 12308
Tel: (518) 346-4592 Ext: 17
Cel: (518) 928-5789
Fax: (518) 381-6055
Email: William.kotas@pacelabs.com <mailto:William.kotas@pacelabs.com>
Web: www.pacelabs.com <http://www.pacelabs.com/>

SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<12030275P1>

120302751

Page: of

1540173

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: TRC	Report To: AL LEONARD	Attention:
Address: 650 SUFFOLK ST	Copy To: DAVID SULLIVAN	Company Name:
LOWELL MA.	JASON FIERO	Address:
Email To: ALEONARD@TRCSOLUTIONS.COM	Purchase Order No.: C115058	Pace Quote Reference:
Phone: 9789705600 Fax:	Project Name: NBHS IRA	Pace Project Manager:
Requested Due Date/TAT: 5-DAY	Project Number: 115058	Pace Profile #:

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): PCBs by SOXHLET	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	INFLUENT	AR	G	3/27	11:55	3/27	15:55	70°	1	✓								✓		AP03716
2	EFFLUENT	AR	G	3/27	11:50	3/27	15:50	70°	1	✓								✓		AP03717
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Jason C. Fiero TRC	3/28/12		VIA FedEX			1.0	Y	Y	Y
	VIA FedEX			[signature] PACE	3.29.12	10:25				

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JASON C. FIERO

SIGNATURE of SAMPLER: Jason C. Fiero — DATE Signed (MM/DD/YY): 3/27/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Nov-2007

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG

Pace Analytical®

Prep Date: 04/02/12 **Batch ID: 17486**

Initial for required Clean Up Steps

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Hg Shake (MM/DD)	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
														HAG		HAG	HAG			
1	166290	PBLK-43	AP03716B	PF10		E PCB A	SOX	N/A	1	12:00	08:00	NA	NA	04/03	NA	04/03	04/03	5	04/03	Lot: 26472
2	166289	LCS-43	AP03716L	PF10		E PCB A	SOX	N/A	1	12:00	08:00	NA	NA	04/03	NA	04/03	04/03	5	04/03	Lot: 26472
3	166288	LCSD-43	AP03716S	PF10		E PCB A	SOX	N/A	1	12:00	08:00	NA	NA	04/03	NA	04/03	04/03	5	04/03	Lot: 26472
4	166286	12030275-01	AP03716	PF10		E PCB A	SOX	N/A	1200000	12:00	08:00	NA	NA	04/03	NA	04/03	04/03	5	04/03	Lot: 23318(11040047)
5	166287	12030275-02	AP03717	PF10		E PCB A	SOX	N/A	1200000	12:00	08:00	NA	NA	04/03	NA	04/03	04/03	5	04/03	Lot: 23318(11040047)

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	062210	NA		☑	☑	☑	☑	☐	☐	☐
0.05ppm TCMX / 0.5ppm DCBP in Hexan	112311B031P147A1-10	500	0.05/0.5	☑	☑	☑	☑	☐	☐	☐
A1242 @ 1.00ppm in Hexane	013112B032P011D	1000	1.0	☐	☑	☑	☐	☐	☐	☐
Hexane (Dewar) Current	DF580	NA		☑	☑	☑	☑	☐	☐	☐
Sulfuric Acid (Main Lab)	K42027	NA		☑	☑	☑	☑	☐	☐	☐
10% Florisil Main Lab	031212MLB2P104A	NA		☑	☑	☑	☑	☐	☐	☐
Ethyl Ether	DF800	NA		☑	☑	☑	☑	☐	☐	☐

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Analyst Review: Hgansky
Heather Gansky

Peer Review: Tim Holton
Timothy Holton

Print Date: 4/15/2012
Lims Version : 5.0.6.5
_EXT - LOGBOOK_GC-SV; Rev 02; 1.18.2010; EXTRACTION

PCB SCREEN SHEET

LRF: 12030275 **Batch ID:17486**

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Percent Solids	Dry Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AP03716B	GC21B-1692-17	PF10	**04/02/12**	1	N/A	NA	5	NA		1	NA	5x	Tom Herold
	GC21F-1753-17	PF10	**04/02/12**	1	N/A	NA	5	NA		1	NA	5x	Tom Herold
AP03716L	GC21B-1692-18	PF10	**04/02/12**	1	N/A	NA	5	NA		1	NA	5x	Tom Herold
	GC21F-1753-18	PF10	**04/02/12**	1	N/A	NA	5	NA		1	NA	5x	Tom Herold
AP03716S	GC21B-1692-19	PF10	**04/02/12**	1	N/A	NA	5	NA		1	NA	5x	Tom Herold
	GC21F-1753-19	PF10	**04/02/12**	1	N/A	NA	5	NA		1	NA	5x	Tom Herold
AP03716	GC21B-1692-20	PF10	**04/02/12**	1200000	N/A	NA	5	NA		1	NA	5x	Tom Herold
	GC21F-1753-20	PF10	**04/02/12**	1200000	N/A	NA	5	NA		1	NA	5x	Tom Herold
AP03717	GC21B-1692-21	PF10	**04/02/12**	1200000	N/A	NA	5	NA		1	NA	5x	Tom Herold
	GC21F-1753-21	PF10	**04/02/12**	1200000	N/A	NA	5	NA		1	NA	5x	Tom Herold

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COMMENTS: _____

Page 1 of 1

Print Date: 4/15/2012
Lims Version : 5.0.6.5
_EXT-INJSHEET_NL; Rev 00; 09.29.2010; EXTRACTION

SURROGATE % RECOVERY SUMMARY

4

2F-1
PCB SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 12030275

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-43	AP03716B	GC21F-1753-17	93.8	116					0
PBLK-43	AP03716B	GC21B-1692-17			96.6	119			0
LCS-43	AP03716L	GC21F-1753-18	102	117					0
LCS-43	AP03716L	GC21B-1692-18			99.9	117			0
LCSD-43	AP03716S	GC21F-1753-19	95.9	114					0
LCSD-43	AP03716S	GC21B-1692-19			99.7	116			0
12030275-01	AP03716	GC21F-1753-20	104	128 *					1
12030275-01	AP03716	GC21B-1692-20			102	120			0
12030275-02	AP03717	GC21F-1753-21	93.3	115					0
12030275-02	AP03717	GC21B-1692-21			96.6	118			0

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(60.0-120)
SURR2 = DECACHLOROBIPHENYL	(60.0-120)

Form II-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

LABORATORY CONTROL SPIKE SUMMARY

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3F-1
PCB LAB CONTROL SAMPLE (LCS) / LAB CONTROL SAMPLE DUPLICATE (LCSD) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078 SDG No: 12030275

LCS LRF ID: LCS-43 LCSD LRF ID: LCSD-43

LCS Lab File ID: GC21F-1753-18 LCSD Lab File ID: GC21F-1753-19

LCS Sample Inj Date: 04/03/2012 17:06:48 LCSD Sample Inj Date: 04/03/2012 17:39:39

LCS Lab Sample ID: AP03716L LCSD Lab Sample ID: AP03716S

COMPOUND	SPIKE ADDED (ug)	LCS CONCENTRATION (ug)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	1.00	1.03	103	(70.0-130)

COMPOUND	SPIKE ADDED (ug)	LCSD CONCENTRATION (ug)	LCSD PERCENT RECOVERY #	RPD #	QC LIMITS[1] RPD	REC
Aroclor 1242	1.00	1.01	101	1.96	20	(70.0-130)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

5

3F-1
PCB LAB CONTROL SAMPLE (LCS) / LAB CONTROL SAMPLE DUPLICATE (LCSD) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078 SDG No: 12030275

LCS LRF ID: LCS-43 LCSD LRF ID: LCSD-43

LCS Lab File ID: GC21B-1692-18 LCSD Lab File ID: GC21B-1692-19

LCS Sample Inj Date: 04/03/2012 17:06:52 LCSD Sample Inj Date: 04/03/2012 17:39:42

LCS Lab Sample ID: AP03716L LCSD Lab Sample ID: AP03716S

COMPOUND	SPIKE ADDED (ug)	LCS CONCENTRATION (ug)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	1.00	1.07	107	(70.0-130)

COMPOUND	SPIKE ADDED (ug)	LCSD CONCENTRATION (ug)	LCSD PERCENT RECOVERY #	RPD #	QC LIMITS[1] RPD	REC
Aroclor 1242	1.00	1.05	105	1.89	20	(70.0-130)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

5

METHOD BLANK SUMMARY

6

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	Blank Sample ID:	PBLK-43
Matrix:	Polyurethane Foam (PF10)	Method Blank ID:	AP03716B
Instrument ID:	GC21F	Lab File ID:	GC21F-1753-17
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	04/02/2012
GC Column (1):	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	04/03/2012
		Time Analyzed:	16:33:58

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-43(LAB CONTROL SPIKE)	AP03716L	GC21F-1753-18	04/03/2012 17:06:48
LCSD-43(LAB CONTROL SPIKE DUPLICATE)	AP03716S	GC21F-1753-19	04/03/2012 17:39:39
INFLUENT	AP03716	GC21F-1753-20	04/03/2012 18:12:30
EFFLUENT	AP03717	GC21F-1753-21	04/03/2012 18:45:21

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	Blank Sample ID:	PBLK-43
Matrix:	Polyurethane Foam (PF10)	Method Blank ID:	AP03716B
Instrument ID:	GC21B	Lab File ID:	GC21B-1692-17
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	04/02/2012
GC Column (1):	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	04/03/2012
		Time Analyzed:	16:34:02

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-43(LAB CONTROL SPIKE)	AP03716L	GC21B-1692-18	04/03/2012 17:06:52
LCSD-43(LAB CONTROL SPIKE DUPLICATE)	AP03716S	GC21B-1692-19	04/03/2012 17:39:42
INFLUENT	AP03716	GC21B-1692-20	04/03/2012 18:12:34
EFFLUENT	AP03717	GC21B-1692-21	04/03/2012 18:45:24

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FORM IV-CLP-PCB(PACE)

SAMPLE ANALYSIS DATA

7

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	LRF ID:	12030275-01
Matrix:	Polyurethane Foam	Client ID:	INFLUENT
Sample wt(Dry)/vol:	1.20 m³	Lab Sample ID:	AP03716
Percent Moisture:	N/A	Date Received:	03/29/2012
Extraction:	Soxhlet Method (3540C)	Date Extracted:	04/02/2012
Conc. Extract Volume:	5000 uL	Date Analyzed:	04/03/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC21F-1753-20

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC21B-1692-20

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/M³	Q
1	12674-11-2	Aroclor 1016	0.0833	U
1	11104-28-2	Aroclor 1221	0.0833	U
1	11141-16-5	Aroclor 1232	0.0833	U
1	53469-21-9	Aroclor 1242	0.0833	U
1	12672-29-6	Aroclor 1248	0.159	PE
1	11097-69-1	Aroclor 1254	0.440	AF
1	11096-82-5	Aroclor 1260	0.0833	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Note: Concentration results based upon client supplied air volumes.

FORM I-CLP-PCB (NEA-PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	Client ID:	INFLUENT
LRF Sample ID:	12030275-01	Lab Sample ID:	AP03716
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	04/03/2012 6:12:30 PM	Date Analyzed:	04/03/2012 6:12:34 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1753-20	Lab File ID 2:	GC21B-1692-20
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/m3)	RPD (%)	*
Aroclor 1016	1	1	7.52	7.43	7.59			
		2	7.89	7.80	7.96			
		3	8.51	8.42	8.58			
		4	8.74	8.63	8.79			
		5	8.86	8.77	8.93			
	2	1	8.12	8.03	8.19			
		2	8.53	8.44	8.60			
		3	9.11	9.05	9.21			
		4	9.36	9.28	9.44			
		5	9.52	9.46	9.62			
Aroclor 1221	1	1	NA	4.43	4.59			
		2	NA	5.66	5.82			
		3	NA	6.21	6.37			
		4	NA	6.41	6.57			
		5	NA	6.53	6.69			
	2	1	NA	5.23	5.39			
		2	NA	6.38	6.54			
		3	NA	6.86	7.02			
		4	NA	7.06	7.22			
		5	NA	7.18	7.34			
Aroclor 1232	1	1	NA	6.53	6.69			
		2	7.89	7.81	7.97			
		3	8.51	8.43	8.59			
		4	8.74	8.63	8.79			
		5	8.86	8.77	8.93			
	2	1	NA	7.19	7.35			
		2	8.53	8.45	8.61			
		3	9.11	9.06	9.22			
		4	9.36	9.29	9.45			
		5	9.52	9.47	9.63			
Aroclor 1242	1	1	7.52	7.43	7.59			
		2	7.89	7.80	7.96			
		3	8.51	8.42	8.58			
		4	8.74	8.63	8.79			
		5	8.86	8.77	8.93			
	2	1	8.12	8.04	8.20			
		2	8.53	8.45	8.61			
		3	9.11	9.06	9.22			
		4	9.36	9.28	9.44			
		5	9.52	9.46	9.62			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	Client ID:	INFLUENT
LRF Sample ID:	12030275-01	Lab Sample ID:	AP03716
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	04/03/2012 6:12:30 PM	Date Analyzed:	04/03/2012 6:12:34 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1753-20	Lab File ID 2:	GC21B-1692-20
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/m3)	RPD (%)	*
Aroclor 1248	1	1	9.43	9.34	9.50			
		2	10.07	9.98	10.14			
		3	10.71	10.62	10.78			
		4	10.91	10.78	10.94			
		5	11.27	11.18	11.34	0.159		
	2	1	10.07	9.98	10.14			
		2	10.80	10.72	10.88			
		3	11.42	11.33	11.49			
		4	11.64	11.53	11.69			
		5	12.12	12.00	12.16	0.137	14.9	
Aroclor 1254	1	1	11.58	11.49	11.65			
		2	12.23	12.13	12.29			
		3	12.51	12.41	12.57			
		4	13.97	13.87	14.03			
		5	14.78	14.69	14.85	0.440		
	2	1	12.28	12.18	12.34			
		2	13.05	12.96	13.12			
		3	13.34	13.25	13.41			
		4	14.82	14.72	14.88			
		5	15.69	15.59	15.75	0.427	3.00	
Aroclor 1260	1	1	14.78	14.68	14.84			
		2	17.00	16.89	17.05			
		3	17.85	17.75	17.91			
		4	18.57	18.49	18.65			
		5	20.66	20.58	20.74			
	2	1	15.69	15.59	15.75			
		2	NA	17.86	18.02			
		3	NA	19.03	19.19			
		4	NA	19.68	19.84			
		5	NA	22.30	22.46			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	LRF ID:	12030275-02
Matrix:	Polyurethane Foam	Client ID:	EFFLUENT
Sample wt(Dry)/vol:	1.20 m³	Lab Sample ID:	AP03717
Percent Moisture:	N/A	Date Received:	03/29/2012
Extraction:	Soxhlet Method (3540C)	Date Extracted:	04/02/2012
Conc. Extract Volume:	5000 uL	Date Analyzed:	04/03/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC21F-1753-21

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC21B-1692-21

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/M³	Q
1	12674-11-2	Aroclor 1016	0.0833	U
1	11104-28-2	Aroclor 1221	0.0833	U
1	11141-16-5	Aroclor 1232	0.0833	U
1	53469-21-9	Aroclor 1242	0.0833	U
1	12672-29-6	Aroclor 1248	0.0833	U
1	11097-69-1	Aroclor 1254	0.0833	U
1	11096-82-5	Aroclor 1260	0.0833	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Note: Concentration results based upon client supplied air volumes.

FORM I-CLP-PCB (NEA-PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

ANALYTICAL SEQUENCE (GC21F)

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8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12030275

ELAP ID No: 11078

Instrument ID: GC21F Init. Calib. Date(s): 03/05/12,03/06/12,03/07/12

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 5.90 DCBP RT: 24.91

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	030516A	GC21F-1732-2	03/05/2012 15:38:36		
02	A1016 100 PPB	030516B	GC21F-1732-3	03/05/2012 16:11:27		
03	A1016 250 PPB	030516C	GC21F-1732-4	03/05/2012 16:44:18		
04	A1016 1000 PPB	030516E	GC21F-1732-6	03/05/2012 17:50:01		
05	A1221 20 PPB	030521A	GC21F-1732-7	03/05/2012 18:22:52		
06	A1221 100 PPB	030521B	GC21F-1732-8	03/05/2012 18:55:43		
07	A1221 250 PPB	030521C	GC21F-1732-9	03/05/2012 19:28:35		
08	A1221 500 PPB	030521D	GC21F-1732-10	03/05/2012 20:01:26		
09	A1221 1000 PPB	030521E	GC21F-1732-11	03/05/2012 20:34:17		
10	A1232 20 PPB	030532A	GC21F-1732-12	03/05/2012 21:07:08		
11	A1232 100 PPB	030532B	GC21F-1732-13	03/05/2012 21:39:59		
12	A1232 250 PPB	030532C	GC21F-1732-14	03/05/2012 22:12:50		
13	A1232 500 PPB	030532D	GC21F-1732-15	03/05/2012 22:45:41		
14	A1232 1000 PPB	030532E	GC21F-1732-16	03/05/2012 23:18:32		
15	A1242 20 PPB	030542A	GC21F-1732-17	03/05/2012 23:51:23		
16	A1242 100 PPB	030542B	GC21F-1732-18	03/06/2012 00:24:14		
17	A1242 250 PPB	030542C	GC21F-1732-19	03/06/2012 00:57:04		
18	A1242 500 PPB	030542D	GC21F-1732-20	03/06/2012 01:29:54		
19	A1242 1000 PPB	030542E	GC21F-1732-21	03/06/2012 02:02:44		
20	A1248 20 PPB	030548A	GC21F-1732-22	03/06/2012 02:35:35		
21	A1248 100 PPB	030548B	GC21F-1732-23	03/06/2012 03:08:26		
22	A1248 250 PPB	030548C	GC21F-1732-24	03/06/2012 03:41:16		
23	A1248 500 PPB	030548D	GC21F-1732-25	03/06/2012 04:14:07		
24	A1248 1000 PPB	030548E	GC21F-1732-26	03/06/2012 04:46:58		
25	A1254 20 PPB	030554A	GC21F-1732-27	03/06/2012 05:19:49	5.90	24.91
26	A1254 100 PPB	030554B	GC21F-1732-28	03/06/2012 05:52:40	5.90	24.91
27	A1254 250 PPB	030554C	GC21F-1732-29	03/06/2012 06:25:30	5.90	24.91
28	A1254 500 PPB	030554D	GC21F-1732-30	03/06/2012 06:58:20	5.90	24.91
29	A1254 1000 PPB	030554E	GC21F-1732-31	03/06/2012 07:31:10	5.90	24.91
30	A1260 20 PPB	030560A	GC21F-1732-32	03/06/2012 08:04:00		
31	A1260 100 PPB	030560B	GC21F-1732-33	03/06/2012 08:36:50		
32	A1260 250 PPB	030560C	GC21F-1732-34	03/06/2012 09:09:41		
33	A1260 500 PPB	030560D	GC21F-1732-35	03/06/2012 09:42:32		
34	A1260 1000 PPB	030560E	GC21F-1732-36	03/06/2012 10:15:22		
35	A1262 100 PPB	030562B	GC21F-1732-38	03/06/2012 11:21:00		
36	A1262 250 PPB	030562C	GC21F-1732-39	03/06/2012 11:53:51		
37	A1262 500 PPB	030562D	GC21F-1732-40	03/06/2012 12:26:41		
38	A1262 1000 PPB	030562E	GC21F-1732-41	03/06/2012 12:59:32		

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12030275

ELAP ID No: 11078

Instrument ID: GC21F Init. Calib. Date(s): 03/05/12,03/06/12,03/07/12

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 5.90 DCBP RT: 24.91

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1268 100 PPB	030568B	GC21F-1732-43	03/06/2012 14:05:12		
40	A1268 250 PPB	030568C	GC21F-1732-44	03/06/2012 14:38:02		
41	A1268 500 PPB	030568D	GC21F-1732-45	03/06/2012 15:10:53		
42	A1268 1000 PPB	030568E	GC21F-1732-46	03/06/2012 15:43:43		
43	IUPAC 15 20 PPB	0305FSA	GC21F-1732-48	03/06/2012 16:49:23		
44	IUPAC 15 50 PPB	0305FSB	GC21F-1732-49	03/06/2012 17:22:13		
45	IUPAC 15 80 PPB	0305FSC	GC21F-1732-50	03/06/2012 17:55:02		
46	IUPAC 15 100 PPB	0305FSD	GC21F-1732-51	03/06/2012 18:27:52		
47	IUPAC 15 200 PPB	0305FSE	GC21F-1732-52	03/06/2012 19:00:42		
48	A1016 500 PPB	030616D	GC21F-1732-54	03/06/2012 20:06:22		
49	A1268 20 PPB	030768A	GC21F-1732-66	03/07/2012 15:54:06		
50	A1262 20 PPB	030562A	GC21F-1732-67	03/07/2012 16:26:58		
51	A1016 500 PPB	CS160307A	GC21F-1732-69	03/07/2012 17:32:39	5.90	24.91
52	A1221 500 PPB	CS210307A	GC21F-1732-70	03/07/2012 18:05:30	5.90	24.91
53	A1232 500 PPB	CS320307A	GC21F-1732-71	03/07/2012 18:38:21	5.90	24.92
54	A1242 500 PPB	CS420307A	GC21F-1732-72	03/07/2012 19:11:13	5.90	24.91
55	A1248 500 PPB	CS480307A	GC21F-1732-73	03/07/2012 19:44:04	5.90	24.92
56	A1254 500 PPB	CS540307A	GC21F-1732-74	03/07/2012 20:16:55	5.90	24.92
57	A1260 500 PPB	CS600307A	GC21F-1732-75	03/07/2012 20:49:46	5.90	24.91
58	A1262 500 PPB	CS620307A	GC21F-1732-76	03/07/2012 21:22:37	5.90	24.92
59	A1268 500 PPB	CS680307A	GC21F-1732-77	03/07/2012 21:55:29	5.90	24.92
60	SURR IUPAC 15 70 PPB	120307FS01	GC21F-1732-78	03/07/2012 22:28:21	5.90	24.91
61	A1016 500 PPB	CS160403B	GC21F-1753-16	04/03/2012 16:01:08	5.91	24.97
62	PBLK-43(METHOD BLANK)	AP03716B	GC21F-1753-17	04/03/2012 16:33:58	5.91	24.96
63	LCS-43(LAB CONTROL SPIKE)	AP03716L	GC21F-1753-18	04/03/2012 17:06:48	5.91	24.96
64	LCSD-43(LAB CONTROL SPIKE DUPLIC	AP03716S	GC21F-1753-19	04/03/2012 17:39:39	5.91	24.96
65	INFLUENT	AP03716	GC21F-1753-20	04/03/2012 18:12:30	5.91	24.96
66	EFFLUENT	AP03717	GC21F-1753-21	04/03/2012 18:45:21	5.91	24.96
67	A1221 500 PPB	CS210403B	GC21F-1753-22	04/03/2012 19:18:12	5.91	24.96

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

INITIAL CALIBRATION DATA (GC21F)

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12030275
ELAP ID No: 11078
Date(s) Analyzed: 03/05/12,03/06/12,03/07/12
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC21F-1732-2	030516A	20.0	151.232		
	GC21F-1732-3	030516B	100	141.088		
	GC21F-1732-4	030516C	250	134.640		
	GC21F-1732-54	030616D	500	129.082		
	GC21F-1732-6	030516E	1000	131.579	137.524	6.5
Aroclor 1221	GC21F-1732-7	030521A	20.0	41.843		
	GC21F-1732-8	030521B	100	37.869		
	GC21F-1732-9	030521C	250	37.501		
	GC21F-1732-10	030521D	500	34.129		
	GC21F-1732-11	030521E	1000	35.466	37.362	7.8
Aroclor 1232	GC21F-1732-12	030532A	20.0	76.227		
	GC21F-1732-13	030532B	100	65.583		
	GC21F-1732-14	030532C	250	66.497		
	GC21F-1732-15	030532D	500	65.103		
	GC21F-1732-16	030532E	1000	60.453	66.773	8.7
Aroclor 1242	GC21F-1732-17	030542A	20.0	139.407		
	GC21F-1732-18	030542B	100	121.065		
	GC21F-1732-19	030542C	250	121.973		
	GC21F-1732-20	030542D	500	112.900		
	GC21F-1732-21	030542E	1000	113.913	121.852	8.7
Aroclor 1248	GC21F-1732-22	030548A	20.0	151.432		
	GC21F-1732-23	030548B	100	126.177		
	GC21F-1732-24	030548C	250	134.513		
	GC21F-1732-25	030548D	500	124.987		
	GC21F-1732-26	030548E	1000	113.255	130.073	11
Aroclor 1254	GC21F-1732-27	030554A	20.0	207.329		
	GC21F-1732-28	030554B	100	190.034		
	GC21F-1732-29	030554C	250	179.317		
	GC21F-1732-30	030554D	500	178.040		
	GC21F-1732-31	030554E	1000	167.444	184.433	8.2
Aroclor 1260	GC21F-1732-32	030560A	20.0	297.550		
	GC21F-1732-33	030560B	100	260.113		
	GC21F-1732-34	030560C	250	264.058		
	GC21F-1732-35	030560D	500	250.352		
	GC21F-1732-36	030560E	1000	228.393	260.093	9.6
Aroclor 1262	GC21F-1732-67	030562A	20.0	280.249		
	GC21F-1732-38	030562B	100	274.870		
	GC21F-1732-39	030562C	250	269.791		
	GC21F-1732-40	030562D	500	271.178		
	GC21F-1732-41	030562E	1000	255.577	270.333	3.4

FORM VI-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12030275
ELAP ID No: 11078
Date(s) Analyzed: 03/05/12,03/06/12,03/07/12
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC21F-1732-66	030768A	20.0	508.207		
	GC21F-1732-43	030568B	100	509.655		
	GC21F-1732-44	030568C	250	487.037		
	GC21F-1732-45	030568D	500	470.450		
	GC21F-1732-46	030568E	1000	448.407	484.751	5.4
TCMX	GC21F-1732-27	030554A	2.00	810.325		
	GC21F-1732-28	030554B	5.00	769.088		
	GC21F-1732-29	030554C	8.00	753.313		
	GC21F-1732-30	030554D	10.0	739.041		
	GC21F-1732-31	030554E	20.0	706.962	755.746	5.0
4,4'-Dibromobiphenyl	GC21F-1732-48	0305FSA	20.0	433.587		
	GC21F-1732-49	0305FSB	50.0	429.052		
	GC21F-1732-50	0305FSC	80.0	432.652		
	GC21F-1732-51	0305FSD	100	449.700		
	GC21F-1732-52	0305FSE	200	412.150	431.428	3.1
DCBP	GC21F-1732-27	030554A	20.0	873.235		
	GC21F-1732-28	030554B	50.0	817.132		
	GC21F-1732-29	030554C	80.0	781.553		
	GC21F-1732-30	030554D	100	794.468		
	GC21F-1732-31	030554E	200	712.941	795.866	7.3

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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INITIAL/CONTINUING CALIBRATION DATA (GC21F)

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7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12030275

ELAP ID No: 11078

Instrument ID: GC21F

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC21F-1732-69	CS160307A	ICV	491	500	-1.81		03/07/2012 17:32:39
Aroclor 1221	GC21F-1732-70	CS210307A	ICV	514	500	2.75		03/07/2012 18:05:30
Aroclor 1232	GC21F-1732-71	CS320307A	ICV	492	500	-1.52		03/07/2012 18:38:21
Aroclor 1242	GC21F-1732-72	CS420307A	ICV	496	500	-0.742		03/07/2012 19:11:13
Aroclor 1248	GC21F-1732-73	CS480307A	ICV	484	500	-3.27		03/07/2012 19:44:04
Aroclor 1254	GC21F-1732-74	CS540307A	ICV	564	500	12.8		03/07/2012 20:16:55
Aroclor 1260	GC21F-1732-75	CS600307A	ICV	501	500	0.293		03/07/2012 20:49:46
Aroclor 1262	GC21F-1732-76	CS620307A	ICV	479	500	-4.15		03/07/2012 21:22:37
Aroclor 1268	GC21F-1732-77	CS680307A	ICV	532	500	6.31		03/07/2012 21:55:29
Aroclor 1016	GC21F-1753-16	CS160403B	CCV	493	500	-1.38		04/03/2012 16:01:08
Aroclor 1221	GC21F-1753-22	CS210403B	CCV	515	500	2.97		04/03/2012 19:18:12

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12030275
ELAP ID No: 11078
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC21F-1732-69	CS160307A	ICV	1	7.51	7.43	7.59
		CS160307A	ICV	2	7.88	7.80	7.96
		CS160307A	ICV	3	8.50	8.42	8.58
		CS160307A	ICV	4	8.71	8.63	8.79
		CS160307A	ICV	5	8.85	8.77	8.93
Aroclor 1221	GC21F-1732-70	CS210307A	ICV	1	4.51	4.43	4.59
		CS210307A	ICV	2	5.74	5.66	5.82
		CS210307A	ICV	3	6.29	6.21	6.37
		CS210307A	ICV	4	6.49	6.41	6.57
		CS210307A	ICV	5	6.61	6.53	6.69
Aroclor 1232	GC21F-1732-71	CS320307A	ICV	1	6.61	6.53	6.69
		CS320307A	ICV	2	7.89	7.81	7.97
		CS320307A	ICV	3	8.51	8.43	8.59
		CS320307A	ICV	4	8.71	8.63	8.79
		CS320307A	ICV	5	8.85	8.77	8.93
Aroclor 1242	GC21F-1732-72	CS420307A	ICV	1	7.51	7.43	7.59
		CS420307A	ICV	2	7.88	7.80	7.96
		CS420307A	ICV	3	8.50	8.42	8.58
		CS420307A	ICV	4	8.71	8.63	8.79
		CS420307A	ICV	5	8.85	8.77	8.93
Aroclor 1248	GC21F-1732-73	CS480307A	ICV	1	9.42	9.34	9.50
		CS480307A	ICV	2	10.06	9.98	10.14
		CS480307A	ICV	3	10.70	10.62	10.78
		CS480307A	ICV	4	10.86	10.78	10.94
		CS480307A	ICV	5	11.26	11.18	11.34
Aroclor 1254	GC21F-1732-74	CS540307A	ICV	1	11.57	11.49	11.65
		CS540307A	ICV	2	12.21	12.13	12.29
		CS540307A	ICV	3	12.49	12.41	12.57
		CS540307A	ICV	4	13.95	13.87	14.03
		CS540307A	ICV	5	14.77	14.69	14.85
Aroclor 1260	GC21F-1732-75	CS600307A	ICV	1	14.76	14.68	14.84
		CS600307A	ICV	2	16.97	16.89	17.05
		CS600307A	ICV	3	17.83	17.75	17.91
		CS600307A	ICV	4	18.57	18.49	18.65
		CS600307A	ICV	5	20.66	20.58	20.74
Aroclor 1262	GC21F-1732-76	CS620307A	ICV	1	14.76	14.68	14.84
		CS620307A	ICV	2	16.97	16.89	17.05
		CS620307A	ICV	3	17.82	17.74	17.90

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12030275
ELAP ID No: 11078
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620307A	ICV	4	18.57	18.49	18.65
		CS620307A	ICV	5	20.66	20.58	20.74
Aroclor 1268	GC21F-1732-77	CS680307A	ICV	1	18.57	18.49	18.65
		CS680307A	ICV	2	20.67	20.59	20.75
		CS680307A	ICV	3	18.36	18.28	18.44
		CS680307A	ICV	4	19.81	19.73	19.89
		CS680307A	ICV	5	20.16	20.08	20.24

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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FORM VII-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12030275
ELAP ID No: 11078
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC21F-1753-16	CS160403B	CCV	1	7.52	7.43	7.59
		CS160403B	CCV	2	7.90	7.80	7.96
		CS160403B	CCV	3	8.52	8.42	8.58
		CS160403B	CCV	4	8.73	8.63	8.79
		CS160403B	CCV	5	8.86	8.77	8.93
Aroclor 1221	GC21F-1753-22	CS210403B	CCV	1	4.51	4.43	4.59
		CS210403B	CCV	2	5.74	5.66	5.82
		CS210403B	CCV	3	6.30	6.21	6.37
		CS210403B	CCV	4	6.50	6.41	6.57
		CS210403B	CCV	5	6.62	6.53	6.69

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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FORM VII-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

ANALYTICAL SEQUENCE (GC21B)

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12030275

ELAP ID No: 11078

Instrument ID: GC21B Init. Calib. Date(s): 03/05/12,03/06/12,03/07/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.50 DCBP RT: 27.29

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	HEXANE BLANK	120305B01	GC21B-1671-1	03/05/2012 15:05:50		
02	A1016 20 PPB	030516A	GC21B-1671-2	03/05/2012 15:38:40		
03	A1016 100 PPB	030516B	GC21B-1671-3	03/05/2012 16:11:31		
04	A1016 250 PPB	030516C	GC21B-1671-4	03/05/2012 16:44:22		
05	A1016 500 PPB	030516D	GC21B-1671-5	03/05/2012 17:17:14		
06	A1016 1000 PPB	030516E	GC21B-1671-6	03/05/2012 17:50:05		
07	A1221 20 PPB	030521A	GC21B-1671-7	03/05/2012 18:22:56		
08	A1221 100 PPB	030521B	GC21B-1671-8	03/05/2012 18:55:47		
09	A1221 250 PPB	030521C	GC21B-1671-9	03/05/2012 19:28:39		
10	A1221 500 PPB	030521D	GC21B-1671-10	03/05/2012 20:01:30		
11	A1221 1000 PPB	030521E	GC21B-1671-11	03/05/2012 20:34:21		
12	A1232 20 PPB	030532A	GC21B-1671-12	03/05/2012 21:07:12		
13	A1232 100 PPB	030532B	GC21B-1671-13	03/05/2012 21:40:03		
14	A1232 250 PPB	030532C	GC21B-1671-14	03/05/2012 22:12:54		
15	A1232 500 PPB	030532D	GC21B-1671-15	03/05/2012 22:45:45		
16	A1232 1000 PPB	030532E	GC21B-1671-16	03/05/2012 23:18:36		
17	A1242 20 PPB	030542A	GC21B-1671-17	03/05/2012 23:51:27		
18	A1242 100 PPB	030542B	GC21B-1671-18	03/06/2012 00:24:18		
19	A1242 250 PPB	030542C	GC21B-1671-19	03/06/2012 00:57:08		
20	A1242 500 PPB	030542D	GC21B-1671-20	03/06/2012 01:29:58		
21	A1242 1000 PPB	030542E	GC21B-1671-21	03/06/2012 02:02:48		
22	A1248 20 PPB	030548A	GC21B-1671-22	03/06/2012 02:35:39		
23	A1248 100 PPB	030548B	GC21B-1671-23	03/06/2012 03:08:30		
24	A1248 250 PPB	030548C	GC21B-1671-24	03/06/2012 03:41:20		
25	A1248 500 PPB	030548D	GC21B-1671-25	03/06/2012 04:14:11		
26	A1248 1000 PPB	030548E	GC21B-1671-26	03/06/2012 04:47:02		
27	A1254 20 PPB	030554A	GC21B-1671-27	03/06/2012 05:19:53	6.50	27.29
28	A1254 100 PPB	030554B	GC21B-1671-28	03/06/2012 05:52:44	6.49	27.28
29	A1254 250 PPB	030554C	GC21B-1671-29	03/06/2012 06:25:34	6.50	27.29
30	A1254 500 PPB	030554D	GC21B-1671-30	03/06/2012 06:58:24	6.50	27.29
31	A1254 1000 PPB	030554E	GC21B-1671-31	03/06/2012 07:31:14	6.50	27.29
32	A1260 20 PPB	030560A	GC21B-1671-32	03/06/2012 08:04:04		
33	A1260 100 PPB	030560B	GC21B-1671-33	03/06/2012 08:36:54		
34	A1260 250 PPB	030560C	GC21B-1671-34	03/06/2012 09:09:45		
35	A1260 500 PPB	030560D	GC21B-1671-35	03/06/2012 09:42:36		
36	A1260 1000 PPB	030560E	GC21B-1671-36	03/06/2012 10:15:26		
37	A1262 100 PPB	030562B	GC21B-1671-38	03/06/2012 11:21:04		
38	A1262 250 PPB	030562C	GC21B-1671-39	03/06/2012 11:53:55		

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12030275

ELAP ID No: 11078

Instrument ID: GC21B Init. Calib. Date(s): 03/05/12,03/06/12,03/07/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.50 DCBP RT: 27.29

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	030562D	GC21B-1671-40	03/06/2012 12:26:45		
40	A1262 1000 PPB	030562E	GC21B-1671-41	03/06/2012 12:59:36		
41	A1268 20 PPB	030568A	GC21B-1671-42	03/06/2012 13:32:25		
42	A1268 100 PPB	030568B	GC21B-1671-43	03/06/2012 14:05:16		
43	A1268 250 PPB	030568C	GC21B-1671-44	03/06/2012 14:38:06		
44	A1268 500 PPB	030568D	GC21B-1671-45	03/06/2012 15:10:57		
45	A1268 1000 PPB	030568E	GC21B-1671-46	03/06/2012 15:43:47		
46	IUPAC 15 20 PPB	0305FSA	GC21B-1671-48	03/06/2012 16:49:27		
47	IUPAC 15 50 PPB	0305FSB	GC21B-1671-49	03/06/2012 17:22:17		
48	IUPAC 15 80 PPB	0305FSC	GC21B-1671-50	03/06/2012 17:55:06		
49	IUPAC 15 100 PPB	0305FSD	GC21B-1671-51	03/06/2012 18:27:56		
50	IUPAC 15 200 PPB	0305FSE	GC21B-1671-52	03/06/2012 19:00:46		
51	A1262 20 PPB	030562A	GC21B-1671-69	03/07/2012 16:27:02		
52	A1016 500 PPB	CS160307A	GC21B-1671-71	03/07/2012 17:32:43	6.50	27.30
53	A1221 500 PPB	CS210307A	GC21B-1671-72	03/07/2012 18:05:34	6.50	27.30
54	A1232 500 PPB	CS320307A	GC21B-1671-73	03/07/2012 18:38:25	6.50	27.30
55	A1242 500 PPB	CS420307A	GC21B-1671-74	03/07/2012 19:11:17	6.51	27.29
56	A1248 500 PPB	CS480307A	GC21B-1671-75	03/07/2012 19:44:08	6.50	27.29
57	A1254 500 PPB	CS540307A	GC21B-1671-76	03/07/2012 20:16:59	6.50	27.29
58	A1260 500 PPB	CS600307A	GC21B-1671-77	03/07/2012 20:49:50	6.50	27.29
59	A1262 500 PPB	CS620307A	GC21B-1671-78	03/07/2012 21:22:41	6.49	27.29
60	A1268 500 PPB	CS680307A	GC21B-1671-79	03/07/2012 21:55:33	6.50	27.30
61	SURR IUPAC 15 70 PPB	120307FS01	GC21B-1671-80	03/07/2012 22:28:25	6.49	27.28
62	A1016 500 PPB	CS160403B	GC21B-1692-16	04/03/2012 16:01:12	6.51	27.35
63	PBLK-43(METHOD BLANK)	AP03716B	GC21B-1692-17	04/03/2012 16:34:02	6.50	27.34
64	LCS-43(LAB CONTROL SPIKE)	AP03716L	GC21B-1692-18	04/03/2012 17:06:52	6.50	27.34
65	LCSD-43(LAB CONTROL SPIKE DUPLIC	AP03716S	GC21B-1692-19	04/03/2012 17:39:42	6.50	27.34
66	INFLUENT	AP03716	GC21B-1692-20	04/03/2012 18:12:34	6.51	27.34
67	EFFLUENT	AP03717	GC21B-1692-21	04/03/2012 18:45:24	6.51	27.35
68	A1221 500 PPB	CS210403B	GC21B-1692-22	04/03/2012 19:18:15	6.50	27.34

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

INITIAL CALIBRATION DATA (GC21B)

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12030275
ELAP ID No: 11078
Date(s) Analyzed: 03/05/12,03/06/12,03/07/12
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC21B-1671-2	030516A	20.0	120.337		
	GC21B-1671-3	030516B	100	111.907		
	GC21B-1671-4	030516C	250	111.317		
	GC21B-1671-5	030516D	500	107.059		
	GC21B-1671-6	030516E	1000	99.891	110.102	6.8
Aroclor 1221	GC21B-1671-7	030521A	20.0	23.787		
	GC21B-1671-8	030521B	100	27.991		
	GC21B-1671-9	030521C	250	27.257		
	GC21B-1671-10	030521D	500	26.748		
	GC21B-1671-11	030521E	1000	27.721	26.701	6.4
Aroclor 1232	GC21B-1671-12	030532A	20.0	54.990		
	GC21B-1671-13	030532B	100	51.128		
	GC21B-1671-14	030532C	250	49.498		
	GC21B-1671-15	030532D	500	48.606		
	GC21B-1671-16	030532E	1000	48.650	50.574	5.3
Aroclor 1242	GC21B-1671-17	030542A	20.0	87.582		
	GC21B-1671-18	030542B	100	89.513		
	GC21B-1671-19	030542C	250	89.817		
	GC21B-1671-20	030542D	500	89.933		
	GC21B-1671-21	030542E	1000	86.834	88.736	1.6
Aroclor 1248	GC21B-1671-22	030548A	20.0	94.217		
	GC21B-1671-23	030548B	100	102.760		
	GC21B-1671-24	030548C	250	97.769		
	GC21B-1671-25	030548D	500	93.470		
	GC21B-1671-26	030548E	1000	91.525	95.948	4.6
Aroclor 1254	GC21B-1671-27	030554A	20.0	152.281		
	GC21B-1671-28	030554B	100	157.648		
	GC21B-1671-29	030554C	250	152.754		
	GC21B-1671-30	030554D	500	165.999		
	GC21B-1671-31	030554E	1000	142.620	154.260	5.5
Aroclor 1260	GC21B-1671-32	030560A	20.0	243.949		
	GC21B-1671-33	030560B	100	220.381		
	GC21B-1671-34	030560C	250	222.813		
	GC21B-1671-35	030560D	500	224.440		
	GC21B-1671-36	030560E	1000	195.330	221.383	7.8
Aroclor 1262	GC21B-1671-69	030562A	20.0	243.969		
	GC21B-1671-38	030562B	100	253.297		
	GC21B-1671-39	030562C	250	235.384		
	GC21B-1671-40	030562D	500	238.171		
	GC21B-1671-41	030562E	1000	225.780	239.320	4.3

FORM VI-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12030275
ELAP ID No: 11078
Date(s) Analyzed: 03/05/12,03/06/12,03/07/12
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC21B-1671-42	030568A	20.0	422.172		
	GC21B-1671-43	030568B	100	412.001		
	GC21B-1671-44	030568C	250	393.465		
	GC21B-1671-45	030568D	500	382.530		
	GC21B-1671-46	030568E	1000	366.669	395.367	5.6
TCMX	GC21B-1671-27	030554A	2.00	609.778		
	GC21B-1671-28	030554B	5.00	578.484		
	GC21B-1671-29	030554C	8.00	570.176		
	GC21B-1671-30	030554D	10.0	583.378		
	GC21B-1671-31	030554E	20.0	553.519	579.067	3.6
4,4'-Dibromobiphenyl	GC21B-1671-48	0305FSA	20.0	401.088		
	GC21B-1671-49	0305FSB	50.0	376.308		
	GC21B-1671-50	0305FSC	80.0	387.950		
	GC21B-1671-51	0305FSD	100	380.828		
	GC21B-1671-52	0305FSE	200	354.115	380.058	4.5
DCBP	GC21B-1671-27	030554A	20.0	635.017		
	GC21B-1671-28	030554B	50.0	612.726		
	GC21B-1671-29	030554C	80.0	597.159		
	GC21B-1671-30	030554D	100	629.284		
	GC21B-1671-31	030554E	200	577.825	610.402	3.8

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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INITIAL/CONTINUING CALIBRATION DATA (GC21B)

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7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12030275

ELAP ID No: 11078

Instrument ID: GC21B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC21B-1671-71	CS160307A	ICV	493	500	-1.35		03/07/2012 17:32:43
Aroclor 1221	GC21B-1671-72	CS210307A	ICV	512	500	2.37		03/07/2012 18:05:34
Aroclor 1232	GC21B-1671-73	CS320307A	ICV	539	500	7.75		03/07/2012 18:38:25
Aroclor 1242	GC21B-1671-74	CS420307A	ICV	449	500	-10.2		03/07/2012 19:11:17
Aroclor 1248	GC21B-1671-75	CS480307A	ICV	489	500	-2.23		03/07/2012 19:44:08
Aroclor 1254	GC21B-1671-76	CS540307A	ICV	545	500	9.02		03/07/2012 20:16:59
Aroclor 1260	GC21B-1671-77	CS600307A	ICV	524	500	4.86		03/07/2012 20:49:50
Aroclor 1262	GC21B-1671-78	CS620307A	ICV	507	500	1.33		03/07/2012 21:22:41
Aroclor 1268	GC21B-1671-79	CS680307A	ICV	546	500	9.11		03/07/2012 21:55:33
Aroclor 1016	GC21B-1692-16	CS160403B	CCV	514	500	2.72		04/03/2012 16:01:12
Aroclor 1221	GC21B-1692-22	CS210403B	CCV	527	500	5.41		04/03/2012 19:18:15

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12030275
ELAP ID No: 11078
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC21B-1671-71	CS160307A	ICV	1	8.11	8.03	8.19
		CS160307A	ICV	2	8.52	8.44	8.60
		CS160307A	ICV	3	9.13	9.05	9.21
		CS160307A	ICV	4	9.36	9.28	9.44
		CS160307A	ICV	5	9.54	9.46	9.62
Aroclor 1221	GC21B-1671-72	CS210307A	ICV	1	5.31	5.23	5.39
		CS210307A	ICV	2	6.46	6.38	6.54
		CS210307A	ICV	3	6.94	6.86	7.02
		CS210307A	ICV	4	7.14	7.06	7.22
		CS210307A	ICV	5	7.26	7.18	7.34
Aroclor 1232	GC21B-1671-73	CS320307A	ICV	1	7.27	7.19	7.35
		CS320307A	ICV	2	8.53	8.45	8.61
		CS320307A	ICV	3	9.14	9.06	9.22
		CS320307A	ICV	4	9.37	9.29	9.45
		CS320307A	ICV	5	9.55	9.47	9.63
Aroclor 1242	GC21B-1671-74	CS420307A	ICV	1	8.12	8.04	8.20
		CS420307A	ICV	2	8.53	8.45	8.61
		CS420307A	ICV	3	9.14	9.06	9.22
		CS420307A	ICV	4	9.36	9.28	9.44
		CS420307A	ICV	5	9.54	9.46	9.62
Aroclor 1248	GC21B-1671-75	CS480307A	ICV	1	10.06	9.98	10.14
		CS480307A	ICV	2	10.80	10.72	10.88
		CS480307A	ICV	3	11.41	11.33	11.49
		CS480307A	ICV	4	11.61	11.53	11.69
		CS480307A	ICV	5	12.08	12.00	12.16
Aroclor 1254	GC21B-1671-76	CS540307A	ICV	1	12.26	12.18	12.34
		CS540307A	ICV	2	13.04	12.96	13.12
		CS540307A	ICV	3	13.33	13.25	13.41
		CS540307A	ICV	4	14.80	14.72	14.88
		CS540307A	ICV	5	15.67	15.59	15.75
Aroclor 1260	GC21B-1671-77	CS600307A	ICV	1	15.67	15.59	15.75
		CS600307A	ICV	2	17.94	17.86	18.02
		CS600307A	ICV	3	19.11	19.03	19.19
		CS600307A	ICV	4	19.76	19.68	19.84
		CS600307A	ICV	5	22.38	22.30	22.46
Aroclor 1262	GC21B-1671-78	CS620307A	ICV	1	15.66	15.58	15.74
		CS620307A	ICV	2	17.94	17.86	18.02
		CS620307A	ICV	3	19.11	19.03	19.19

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FORM VII-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12030275
ELAP ID No: 11078
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620307A	ICV	4	19.75	19.67	19.83
		CS620307A	ICV	5	22.38	22.30	22.46
Aroclor 1268	GC21B-1671-79	CS680307A	ICV	1	19.75	19.67	19.83
		CS680307A	ICV	2	22.38	22.30	22.46
		CS680307A	ICV	3	19.51	19.43	19.59
		CS680307A	ICV	4	21.17	21.09	21.25
		CS680307A	ICV	5	21.61	21.53	21.69

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

13

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12030275
ELAP ID No: 11078
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC21B-1692-16	CS160403B	CCV	1	8.13	8.03	8.19
		CS160403B	CCV	2	8.54	8.44	8.60
		CS160403B	CCV	3	9.15	9.05	9.21
		CS160403B	CCV	4	9.37	9.28	9.44
		CS160403B	CCV	5	9.55	9.46	9.62
Aroclor 1221	GC21B-1692-22	CS210403B	CCV	1	5.31	5.23	5.39
		CS210403B	CCV	2	6.46	6.38	6.54
		CS210403B	CCV	3	6.94	6.86	7.02
		CS210403B	CCV	4	7.14	7.06	7.22
		CS210403B	CCV	5	7.26	7.18	7.34

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

13

QC SAMPLE RAW DATA

14

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	LRF ID:	PBLK-43
Matrix:	Polyurethane Foam	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP03716B
Percent Moisture:	N/A	Lab File ID:	GC21F-1753-17
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/02/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/03/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/15/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	LRF ID:	PBLK-43
Matrix:	Polyurethane Foam	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP03716B
Percent Moisture:	N/A	Lab File ID:	GC21B-1692-17
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/02/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/03/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/15/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	LRF ID:	LCS-43
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP03716L
Percent Moisture:	N/A	Lab File ID:	GC21F-1753-18
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/02/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/03/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	1.03	
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/15/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	LRF ID:	LCS-43
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP03716L
Percent Moisture:	N/A	Lab File ID:	GC21B-1692-18
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/02/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/03/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	1.07	
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/15/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	Client ID:	LCS-43(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-43	Lab Sample ID:	AP03716L
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	04/03/2012 5:06:48 PM	Date Analyzed:	04/03/2012 5:06:52 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1753-18	Lab File ID 2:	GC21B-1692-18
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug)	RPD (%)	*
Aroclor 1016	1	1	7.52	7.43	7.59			
		2	7.89	7.80	7.96			
		3	8.51	8.42	8.58			
		4	8.72	8.63	8.79			
		5	8.86	8.77	8.93			
	2	1	8.12	8.03	8.19			
		2	8.53	8.44	8.60			
		3	9.14	9.05	9.21			
		4	9.37	9.28	9.44			
		5	9.55	9.46	9.62			
Aroclor 1221	1	1	NA	4.43	4.59			
		2	NA	5.66	5.82			
		3	NA	6.21	6.37			
		4	NA	6.41	6.57			
		5	NA	6.53	6.69			
	2	1	NA	5.23	5.39			
		2	NA	6.38	6.54			
		3	NA	6.86	7.02			
		4	NA	7.06	7.22			
		5	NA	7.18	7.34			
Aroclor 1232	1	1	NA	6.53	6.69			
		2	7.89	7.81	7.97			
		3	8.51	8.43	8.59			
		4	8.72	8.63	8.79			
		5	8.86	8.77	8.93			
	2	1	NA	7.19	7.35			
		2	8.53	8.45	8.61			
		3	9.14	9.06	9.22			
		4	9.37	9.29	9.45			
		5	9.55	9.47	9.63			
Aroclor 1242	1	1	7.52	7.43	7.59			
		2	7.89	7.80	7.96			
		3	8.51	8.42	8.58			
		4	8.72	8.63	8.79			
		5	8.86	8.77	8.93	1.03		
	2	1	8.12	8.04	8.20			
		2	8.53	8.45	8.61			
		3	9.14	9.06	9.22			
		4	9.37	9.28	9.44			
		5	9.55	9.46	9.62	1.07	3.81	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	Client ID:	LCS-43(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-43	Lab Sample ID:	AP03716L
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	04/03/2012 5:06:48 PM	Date Analyzed:	04/03/2012 5:06:52 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1753-18	Lab File ID 2:	GC21B-1692-18
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.34	9.50			
		2	NA	9.98	10.14			
		3	NA	10.62	10.78			
		4	NA	10.78	10.94			
		5	NA	11.18	11.34			
	2	1	NA	9.98	10.14			
		2	NA	10.72	10.88			
		3	NA	11.33	11.49			
		4	NA	11.53	11.69			
		5	NA	12.00	12.16			
Aroclor 1254	1	1	NA	11.49	11.65			
		2	NA	12.13	12.29			
		3	NA	12.41	12.57			
		4	NA	13.87	14.03			
		5	NA	14.69	14.85			
	2	1	NA	12.18	12.34			
		2	NA	12.96	13.12			
		3	NA	13.25	13.41			
		4	NA	14.72	14.88			
		5	NA	15.59	15.75			
Aroclor 1260	1	1	NA	14.68	14.84			
		2	NA	16.89	17.05			
		3	NA	17.75	17.91			
		4	NA	18.49	18.65			
		5	NA	20.58	20.74			
	2	1	NA	15.59	15.75			
		2	NA	17.86	18.02			
		3	NA	19.03	19.19			
		4	NA	19.68	19.84			
		5	NA	22.30	22.46			

14

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	LRF ID:	LCSD-43
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE DUPLICATE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP03716S
Percent Moisture:	N/A	Lab File ID:	GC21F-1753-19
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/02/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/03/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	1.01	
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/15/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	LRF ID:	LCSD-43
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE DUPLICATE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP03716S
Percent Moisture:	N/A	Lab File ID:	GC21B-1692-19
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/02/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/03/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	1.05	
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/15/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	Client ID:	LCSD-43(LAB CONTROL SPIKE DUPLICATE)
LRF Sample ID:	LCSD-43	Lab Sample ID:	AP03716S
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	04/03/2012 5:39:39 PM	Date Analyzed:	04/03/2012 5:39:42 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1753-19	Lab File ID 2:	GC21B-1692-19
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug)	RPD (%)	*
Aroclor 1016	1	1	7.52	7.43	7.59			
		2	7.89	7.80	7.96			
		3	8.51	8.42	8.58			
		4	8.72	8.63	8.79			
		5	8.86	8.77	8.93			
	2	1	8.12	8.03	8.19			
		2	8.53	8.44	8.60			
		3	9.14	9.05	9.21			
		4	9.37	9.28	9.44			
		5	9.55	9.46	9.62			
Aroclor 1221	1	1	NA	4.43	4.59			
		2	NA	5.66	5.82			
		3	NA	6.21	6.37			
		4	NA	6.41	6.57			
		5	NA	6.53	6.69			
	2	1	NA	5.23	5.39			
		2	NA	6.38	6.54			
		3	NA	6.86	7.02			
		4	NA	7.06	7.22			
		5	NA	7.18	7.34			
Aroclor 1232	1	1	NA	6.53	6.69			
		2	7.89	7.81	7.97			
		3	8.51	8.43	8.59			
		4	8.72	8.63	8.79			
		5	8.86	8.77	8.93			
	2	1	NA	7.19	7.35			
		2	8.53	8.45	8.61			
		3	9.14	9.06	9.22			
		4	9.37	9.29	9.45			
		5	9.55	9.47	9.63			
Aroclor 1242	1	1	7.52	7.43	7.59			
		2	7.89	7.80	7.96			
		3	8.51	8.42	8.58			
		4	8.72	8.63	8.79			
		5	8.86	8.77	8.93	1.01		
	2	1	8.12	8.04	8.20			
		2	8.53	8.45	8.61			
		3	9.14	9.06	9.22			
		4	9.37	9.28	9.44			
		5	9.55	9.46	9.62	1.05	3.88	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12030275
ELAP ID No:	11078	Client ID:	LCSD-43(LAB CONTROL SPIKE DUPLICATE)
LRF Sample ID:	LCSD-43	Lab Sample ID:	AP03716S
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	04/03/2012 5:39:39 PM	Date Analyzed:	04/03/2012 5:39:42 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1753-19	Lab File ID 2:	GC21B-1692-19
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.34	9.50			
		2	NA	9.98	10.14			
		3	NA	10.62	10.78			
		4	NA	10.78	10.94			
		5	NA	11.18	11.34			
	2	1	NA	9.98	10.14			
		2	NA	10.72	10.88			
		3	NA	11.33	11.49			
		4	NA	11.53	11.69			
		5	NA	12.00	12.16			
Aroclor 1254	1	1	NA	11.49	11.65			
		2	NA	12.13	12.29			
		3	NA	12.41	12.57			
		4	NA	13.87	14.03			
		5	NA	14.69	14.85			
	2	1	NA	12.18	12.34			
		2	NA	12.96	13.12			
		3	NA	13.25	13.41			
		4	NA	14.72	14.88			
		5	NA	15.59	15.75			
Aroclor 1260	1	1	NA	14.68	14.84			
		2	NA	16.89	17.05			
		3	NA	17.75	17.91			
		4	NA	18.49	18.65			
		5	NA	20.58	20.74			
	2	1	NA	15.59	15.75			
		2	NA	17.86	18.02			
		3	NA	19.03	19.19			
		4	NA	19.68	19.84			
		5	NA	22.30	22.46			

14

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/15/2012
Lims Version : 5.0.6.5

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: 115058 NBHS PCB SAMPLING
Sampling Date(s): April 04, 2012
Lab Report ID: 12040065
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis (TO-10A)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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CASE NARRATIVE

April 20, 2012

CASE NARRATIVE

This data package (SDG ID: 12040065) consists of 1 polyurethane foam sample received on 4/6/2012. The sample is from Project Name: 115058 NBHS PCB SAMPLING.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AP04150	EFFLUENT	4/4/2012 14:40

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via FEDEX delivery service on 4/6/2012.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) The following cooler temperature was recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 5.9 degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by EPA Method TO-10A/EPA Method 8082 with Dual GC Column Analysis. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for the surrogate compound DCBP was outside quality control limits for sample (LAB ID: AP04150) and all quality control samples (LAB ID: AP04150B, AP04150L and AP04150S) on the primary and secondary column. The percent recovery for the alternate surrogate compound was within limits quality control for these samples. Please see associated Form 2 for details.

(2.) Sample (LAB ID: AP04150B) was re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.

(2.) J-Denotes concentration result greater than the MDL but less than the RL.

(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

William A. Kotas
Client Services Manager

SAMPLE CHAIN OF CUSTODY

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Email To: DSULLIVAN@TRCSOLUTIONS.com
Phone: 978 970 5600 Fax:
Requested Due Date/TAT: 5-DAY

Section B Required Project Information:

Report To: AL LEONARD, DAVID SULLIVAN
Copy To: J. FIERO
Purchase Order No.: C115058
Project Name: NBHS IRA
Project Number: 115058

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

<12040065P1>
120400651

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: PCB SURVEY	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	EFFLUENT		C	4/4/12	10:40	4/4/12	14:40	70-78	1	✓								✓		AP04150
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

4 HRS 5L/min

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[illegible] TRC	4/5/12	17:20	FEDEX.		
FedEx			Peter Bashin	~~4/6/12~~ 4/6	8:10
				4/6/12	

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
5.9	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

e-File(ALLQ020rev.3,31Mar05))22Jun2005

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG

Pace Analytical®

Prep Date: 04/09/12 **Batch ID: 17547**

Initial for required Clean Up Steps

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Hg Shake (MM/DD)	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
														TJH		TJH	TJH			
1	166708	PBLK-80	AP04150B	PF10		E PCB A	SOX	N/A	1	14:20	08:00	NA	NA	04/10	NA	04/10	04/10	5	04/10	Lot:26472
2	166707	LCS-80	AP04150L	PF10		E PCB A	SOX	N/A	1	14:20	08:00	NA	NA	04/10	NA	04/10	04/10	5	04/10	Lot:26472
3	166706	LCSD-80	AP04150S	PF10		E PCB A	SOX	N/A	1	14:20	08:00	NA	NA	04/10	NA	04/10	04/10	5	04/10	Lot:26472
4	166705	12040065-01	AP04150	PF10		E PCB A	SOX	N/A	1200000	14:20	08:00	NA	NA	04/10	NA	04/10	04/10	5	04/10	Lot: 23318(11040047)

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	062210	NA		☑	☑	☑	☑	☐	☐	☐
0.05ppm TCMX / 0.5ppm DCBP in Hexan	112311B031P147A1-10	500	0.05/0.5	☑	☑	☑	☑	☐	☐	☐
A1248 @ 1.00ppm in Hexane	020212B032P020A	1000	1.0	☐	☑	☑	☐	☐	☐	☐
Sulfuric Acid (Main Lab)	K42027	NA		☑	☑	☑	☑	☐	☐	☐
10% Florisil Main Lab CURRENT	031212MLB2P104B	NA		☑	☑	☑	☑	☐	☐	☐
Hexane (Dewar) CURRENT	DF919	NA		☑	☑	☑	☑	☐	☐	☐
Ethyl Ether	DF800	NA		☑	☑	☑	☑	☐	☐	☐

3

Analyst Review: Tim Holton
Timothy Holton

Peer Review: Jillian L Grygas
Jill Grygas

Print Date: 4/20/2012
Lims Version : 5.0.6.5
_EXT - LOGBOOK_GC-SV; Rev 02; 1.18.2010; EXTRACTION

PCB SCREEN SHEET

LRF: 12040065 **Batch ID:17547**

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Percent Solids	Dry Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AP04150BRR1	GC21B-1698-21	PF10	**04/09/12**	1	N/A	NA	5	NA		1	NA	5x	Joelle Stairs
	GC21F-1759-21	PF10	**04/09/12**	1	N/A	NA	5	NA		1	NA	5x	Joelle Stairs
AP04150L	GC21F-1758-18	PF10	**04/09/12**	1	N/A	NA	5	NA		1	NA	5x	Joelle Stairs
	GC21B-1697-18	PF10	**04/09/12**	1	N/A	NA	5	NA		1	NA	5x	Joelle Stairs
AP04150S	GC21F-1758-19	PF10	**04/09/12**	1	N/A	NA	5	NA		1	NA	5x	Joelle Stairs
	GC21B-1697-19	PF10	**04/09/12**	1	N/A	NA	5	NA		1	NA	5x	Joelle Stairs
AP04150	GC21F-1758-20	PF10	**04/09/12**	1200000	N/A	NA	5	NA		1	NA	5x	Joelle Stairs
	GC21B-1697-20	PF10	**04/09/12**	1200000	N/A	NA	5	NA		1	NA	5x	Joelle Stairs

3

COMMENTS: _____

Page 1 of 1

Print Date: 4/20/2012
Lims Version : 5.0.6.5
_EXT-INJSHEET_NL; Rev 00; 09.29.2010; EXTRACTION

SURROGATE % RECOVERY SUMMARY

4

2F-1
PCB SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 12040065

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-80RR1	AP04150BRR1	GC21F-1759-21	104	124 *					1
PBLK-80RR1	AP04150BRR1	GC21B-1698-21			104	123 *			1
LCS-80	AP04150L	GC21F-1758-18	107	123 *					1
LCS-80	AP04150L	GC21B-1697-18			98.6	121 *			1
LCSD-80	AP04150S	GC21F-1758-19	100	123 *					1
LCSD-80	AP04150S	GC21B-1697-19			108	125 *			1
12040065-01	AP04150	GC21F-1758-20	106	124 *					1
12040065-01	AP04150	GC21B-1697-20			109	127 *			1

4

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(60.0-120)
SURR2 = DECACHLOROBIPHENYL	(60.0-120)

Form II-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

LABORATORY CONTROL SPIKE SUMMARY

5

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12040065

LCS Lab ID: LCS-80

Blank Sample ID: PBLK-80RR1

LCS File ID: GC21B-1697-18

Method Blank File ID: GC21B-1698-21

LCS Inj Date: 04/10/2012 19:09:10

Method Blank Inj Date: 04/11/2012 18:51:41

LCS ID: AP04150L

Method Blank ID: AP04150BRR1

LCS Matrix: Polyurethane Foam

Method Blank Matrix: Polyurethane Foam

COMPOUND	SPIKE ADDED (ug)	LCS CONCENTRATION (ug)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1248	1.00	1.00	100	70.0-130

Column to be used to flag recovery values

* Values outside of QC limits

[1]QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

5

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.5

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 12040065

LCS Lab ID: LCS-80

Blank Sample ID: PBLK-80RR1

LCS File ID: GC21F-1758-18

Method Blank File ID: GC21F-1759-21

LCS Inj Date: 04/10/2012 19:09:07

Method Blank Inj Date: 04/11/2012 18:51:36

LCS ID: AP04150L

Method Blank ID: AP04150BRR1

LCS Matrix: Polyurethane Foam

Method Blank Matrix: Polyurethane Foam

COMPOUND	SPIKE ADDED (ug)	LCS CONCENTRATION (ug)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1248	1.00	0.978	97.8	70.0-130

Column to be used to flag recovery values

* Values outside of QC limits

[1]QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

5

COMMENTS:

Form III-CLP-PCB (PACE)

Lims Version : 5.0.6.5

METHOD BLANK SUMMARY

6

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	Blank Sample ID:	PBLK-80RR1
Matrix:	Polyurethane Foam (PF10)	Method Blank ID:	AP04150BRR1
Instrument ID:	GC21F	Lab File ID:	GC21F-1759-21
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	04/09/2012
GC Column (1):	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	04/11/2012
		Time Analyzed:	18:51:36

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-80(LAB CONTROL SPIKE)	AP04150L	GC21F-1758-18	04/10/2012 19:09:07
LCSD-80(LAB CONTROL SPIKE DUPLICATE)	AP04150S	GC21F-1758-19	04/10/2012 19:41:58
EFFLUENT	AP04150	GC21F-1758-20	04/10/2012 20:14:48

6

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	Blank Sample ID:	PBLK-80RR1
Matrix:	Polyurethane Foam (PF10)	Method Blank ID:	AP04150BRR1
Instrument ID:	GC21B	Lab File ID:	GC21B-1698-21
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	04/09/2012
GC Column (1):	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	04/11/2012
		Time Analyzed:	18:51:41

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-80(LAB CONTROL SPIKE)	AP04150L	GC21B-1697-18	04/10/2012 19:09:10
LCSD-80(LAB CONTROL SPIKE DUPLICATE)	AP04150S	GC21B-1697-19	04/10/2012 19:42:02
EFFLUENT	AP04150	GC21B-1697-20	04/10/2012 20:14:53

6

SAMPLE ANALYSIS DATA

7

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	LRF ID:	12040065-01
Matrix:	Polyurethane Foam	Client ID:	EFFLUENT
Sample wt(Dry)/vol:	1.20 m³	Lab Sample ID:	AP04150
Percent Moisture:	N/A	Date Received:	04/06/2012
Extraction:	Soxhlet Method (3540C)	Date Extracted:	04/09/2012
Conc. Extract Volume:	5000 uL	Date Analyzed:	04/10/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC21F-1758-20

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC21B-1697-20

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/M³	Q
1	12674-11-2	Aroclor 1016	0.0833	U
1	11104-28-2	Aroclor 1221	0.0833	U
1	11141-16-5	Aroclor 1232	0.0833	U
1	53469-21-9	Aroclor 1242	0.0833	U
1	12672-29-6	Aroclor 1248	0.0833	U
1	11097-69-1	Aroclor 1254	0.0833	U
1	11096-82-5	Aroclor 1260	0.0833	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Note: Concentration results based upon client supplied air volumes.

FORM I-CLP-PCB

Print Date: 4/20/2012
Lims Version : 5.0.6.5

ANALYTICAL SEQUENCE (GC21F)

8

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040065

ELAP ID No: 11078

Instrument ID: GC21F Init. Calib. Date(s): 03/05/12,03/06/12,03/07/12

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 5.90 DCBP RT: 24.91

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	030516A	GC21F-1732-2	03/05/2012 15:38:36		
02	A1016 100 PPB	030516B	GC21F-1732-3	03/05/2012 16:11:27		
03	A1016 250 PPB	030516C	GC21F-1732-4	03/05/2012 16:44:18		
04	A1016 1000 PPB	030516E	GC21F-1732-6	03/05/2012 17:50:01		
05	A1221 20 PPB	030521A	GC21F-1732-7	03/05/2012 18:22:52		
06	A1221 100 PPB	030521B	GC21F-1732-8	03/05/2012 18:55:43		
07	A1221 250 PPB	030521C	GC21F-1732-9	03/05/2012 19:28:35		
08	A1221 500 PPB	030521D	GC21F-1732-10	03/05/2012 20:01:26		
09	A1221 1000 PPB	030521E	GC21F-1732-11	03/05/2012 20:34:17		
10	A1232 20 PPB	030532A	GC21F-1732-12	03/05/2012 21:07:08		
11	A1232 100 PPB	030532B	GC21F-1732-13	03/05/2012 21:39:59		
12	A1232 250 PPB	030532C	GC21F-1732-14	03/05/2012 22:12:50		
13	A1232 500 PPB	030532D	GC21F-1732-15	03/05/2012 22:45:41		
14	A1232 1000 PPB	030532E	GC21F-1732-16	03/05/2012 23:18:32		
15	A1242 20 PPB	030542A	GC21F-1732-17	03/05/2012 23:51:23		
16	A1242 100 PPB	030542B	GC21F-1732-18	03/06/2012 00:24:14		
17	A1242 250 PPB	030542C	GC21F-1732-19	03/06/2012 00:57:04		
18	A1242 500 PPB	030542D	GC21F-1732-20	03/06/2012 01:29:54		
19	A1242 1000 PPB	030542E	GC21F-1732-21	03/06/2012 02:02:44		
20	A1248 20 PPB	030548A	GC21F-1732-22	03/06/2012 02:35:35		
21	A1248 100 PPB	030548B	GC21F-1732-23	03/06/2012 03:08:26		
22	A1248 250 PPB	030548C	GC21F-1732-24	03/06/2012 03:41:16		
23	A1248 500 PPB	030548D	GC21F-1732-25	03/06/2012 04:14:07		
24	A1248 1000 PPB	030548E	GC21F-1732-26	03/06/2012 04:46:58		
25	A1254 20 PPB	030554A	GC21F-1732-27	03/06/2012 05:19:49	5.90	24.91
26	A1254 100 PPB	030554B	GC21F-1732-28	03/06/2012 05:52:40	5.90	24.91
27	A1254 250 PPB	030554C	GC21F-1732-29	03/06/2012 06:25:30	5.90	24.91
28	A1254 500 PPB	030554D	GC21F-1732-30	03/06/2012 06:58:20	5.90	24.91
29	A1254 1000 PPB	030554E	GC21F-1732-31	03/06/2012 07:31:10	5.90	24.91
30	A1260 20 PPB	030560A	GC21F-1732-32	03/06/2012 08:04:00		
31	A1260 100 PPB	030560B	GC21F-1732-33	03/06/2012 08:36:50		
32	A1260 250 PPB	030560C	GC21F-1732-34	03/06/2012 09:09:41		
33	A1260 500 PPB	030560D	GC21F-1732-35	03/06/2012 09:42:32		
34	A1260 1000 PPB	030560E	GC21F-1732-36	03/06/2012 10:15:22		
35	A1262 100 PPB	030562B	GC21F-1732-38	03/06/2012 11:21:00		
36	A1262 250 PPB	030562C	GC21F-1732-39	03/06/2012 11:53:51		
37	A1262 500 PPB	030562D	GC21F-1732-40	03/06/2012 12:26:41		
38	A1262 1000 PPB	030562E	GC21F-1732-41	03/06/2012 12:59:32		

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040065

ELAP ID No: 11078

Instrument ID: GC21F Init. Calib. Date(s): 03/05/12,03/06/12,03/07/12

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 5.90 DCBP RT: 24.91

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1268 100 PPB	030568B	GC21F-1732-43	03/06/2012 14:05:12		
40	A1268 250 PPB	030568C	GC21F-1732-44	03/06/2012 14:38:02		
41	A1268 500 PPB	030568D	GC21F-1732-45	03/06/2012 15:10:53		
42	A1268 1000 PPB	030568E	GC21F-1732-46	03/06/2012 15:43:43		
43	IUPAC 15 20 PPB	0305FSA	GC21F-1732-48	03/06/2012 16:49:23		
44	IUPAC 15 50 PPB	0305FSB	GC21F-1732-49	03/06/2012 17:22:13		
45	IUPAC 15 80 PPB	0305FSC	GC21F-1732-50	03/06/2012 17:55:02		
46	IUPAC 15 100 PPB	0305FSD	GC21F-1732-51	03/06/2012 18:27:52		
47	IUPAC 15 200 PPB	0305FSE	GC21F-1732-52	03/06/2012 19:00:42		
48	A1016 500 PPB	030616D	GC21F-1732-54	03/06/2012 20:06:22		
49	A1268 20 PPB	030768A	GC21F-1732-66	03/07/2012 15:54:06		
50	A1262 20 PPB	030562A	GC21F-1732-67	03/07/2012 16:26:58		
51	A1016 500 PPB	CS160307A	GC21F-1732-69	03/07/2012 17:32:39	5.90	24.91
52	A1221 500 PPB	CS210307A	GC21F-1732-70	03/07/2012 18:05:30	5.90	24.91
53	A1232 500 PPB	CS320307A	GC21F-1732-71	03/07/2012 18:38:21	5.90	24.92
54	A1242 500 PPB	CS420307A	GC21F-1732-72	03/07/2012 19:11:13	5.90	24.91
55	A1248 500 PPB	CS480307A	GC21F-1732-73	03/07/2012 19:44:04	5.90	24.92
56	A1254 500 PPB	CS540307A	GC21F-1732-74	03/07/2012 20:16:55	5.90	24.92
57	A1260 500 PPB	CS600307A	GC21F-1732-75	03/07/2012 20:49:46	5.90	24.91
58	A1262 500 PPB	CS620307A	GC21F-1732-76	03/07/2012 21:22:37	5.90	24.92
59	A1268 500 PPB	CS680307A	GC21F-1732-77	03/07/2012 21:55:29	5.90	24.92
60	SURR IUPAC 15 70 PPB	120307FS01	GC21F-1732-78	03/07/2012 22:28:21	5.90	24.91
61	A1254 500 PPB	CS540410A	GC21F-1758-15	04/10/2012 17:30:35	5.91	24.96
62	LCS-80(LAB CONTROL SPIKE)	AP04150L	GC21F-1758-18	04/10/2012 19:09:07	5.91	24.96
63	LCSD-80(LAB CONTROL SPIKE DUPLIC	AP04150S	GC21F-1758-19	04/10/2012 19:41:58	5.91	24.96
64	EFFLUENT	AP04150	GC21F-1758-20	04/10/2012 20:14:48	5.91	24.96
65	A1260 500 PPB	CS600410A	GC21F-1758-22	04/10/2012 21:20:27	5.91	24.96

8

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

INITIAL CALIBRATION DATA (GC21F)

9

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040065
ELAP ID No: 11078
Date(s) Analyzed: 03/05/12,03/06/12,03/07/12
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC21F-1732-2	030516A	20.0	151.232		
	GC21F-1732-3	030516B	100	141.088		
	GC21F-1732-4	030516C	250	134.640		
	GC21F-1732-54	030616D	500	129.082		
	GC21F-1732-6	030516E	1000	131.579	137.524	6.5
Aroclor 1221	GC21F-1732-7	030521A	20.0	41.843		
	GC21F-1732-8	030521B	100	37.869		
	GC21F-1732-9	030521C	250	37.501		
	GC21F-1732-10	030521D	500	34.129		
	GC21F-1732-11	030521E	1000	35.466	37.362	7.8
Aroclor 1232	GC21F-1732-12	030532A	20.0	76.227		
	GC21F-1732-13	030532B	100	65.583		
	GC21F-1732-14	030532C	250	66.497		
	GC21F-1732-15	030532D	500	65.103		
	GC21F-1732-16	030532E	1000	60.453	66.773	8.7
Aroclor 1242	GC21F-1732-17	030542A	20.0	139.407		
	GC21F-1732-18	030542B	100	121.065		
	GC21F-1732-19	030542C	250	121.973		
	GC21F-1732-20	030542D	500	112.900		
	GC21F-1732-21	030542E	1000	113.913	121.852	8.7
Aroclor 1248	GC21F-1732-22	030548A	20.0	151.432		
	GC21F-1732-23	030548B	100	126.177		
	GC21F-1732-24	030548C	250	134.513		
	GC21F-1732-25	030548D	500	124.987		
	GC21F-1732-26	030548E	1000	113.255	130.073	11
Aroclor 1254	GC21F-1732-27	030554A	20.0	207.329		
	GC21F-1732-28	030554B	100	190.034		
	GC21F-1732-29	030554C	250	179.317		
	GC21F-1732-30	030554D	500	178.040		
	GC21F-1732-31	030554E	1000	167.444	184.433	8.2
Aroclor 1260	GC21F-1732-32	030560A	20.0	297.550		
	GC21F-1732-33	030560B	100	260.113		
	GC21F-1732-34	030560C	250	264.058		
	GC21F-1732-35	030560D	500	250.352		
	GC21F-1732-36	030560E	1000	228.393	260.093	9.6
Aroclor 1262	GC21F-1732-67	030562A	20.0	280.249		
	GC21F-1732-38	030562B	100	274.870		
	GC21F-1732-39	030562C	250	269.791		
	GC21F-1732-40	030562D	500	271.178		
	GC21F-1732-41	030562E	1000	255.577	270.333	3.4

FORM VI-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040065
ELAP ID No: 11078
Date(s) Analyzed: 03/05/12,03/06/12,03/07/12
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC21F-1732-66	030768A	20.0	508.207		
	GC21F-1732-43	030568B	100	509.655		
	GC21F-1732-44	030568C	250	487.037		
	GC21F-1732-45	030568D	500	470.450		
	GC21F-1732-46	030568E	1000	448.407	484.751	5.4
TCMX	GC21F-1732-27	030554A	2.00	810.325		
	GC21F-1732-28	030554B	5.00	769.088		
	GC21F-1732-29	030554C	8.00	753.313		
	GC21F-1732-30	030554D	10.0	739.041		
	GC21F-1732-31	030554E	20.0	706.962	755.746	5.0
4,4'-Dibromobiphenyl	GC21F-1732-48	0305FSA	20.0	433.587		
	GC21F-1732-49	0305FSB	50.0	429.052		
	GC21F-1732-50	0305FSC	80.0	432.652		
	GC21F-1732-51	0305FSD	100	449.700		
	GC21F-1732-52	0305FSE	200	412.150	431.428	3.1
DCBP	GC21F-1732-27	030554A	20.0	873.235		
	GC21F-1732-28	030554B	50.0	817.132		
	GC21F-1732-29	030554C	80.0	781.553		
	GC21F-1732-30	030554D	100	794.468		
	GC21F-1732-31	030554E	200	712.941	795.866	7.3

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

9

INITIAL/CONTINUING CALIBRATION DATA (GC21F)

10

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12040065

ELAP ID No: 11078

Instrument ID: GC21F

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC21F-1732-69	CS160307A	ICV	491	500	-1.81		03/07/2012 17:32:39
Aroclor 1221	GC21F-1732-70	CS210307A	ICV	514	500	2.75		03/07/2012 18:05:30
Aroclor 1232	GC21F-1732-71	CS320307A	ICV	492	500	-1.52		03/07/2012 18:38:21
Aroclor 1242	GC21F-1732-72	CS420307A	ICV	496	500	-0.742		03/07/2012 19:11:13
Aroclor 1248	GC21F-1732-73	CS480307A	ICV	484	500	-3.27		03/07/2012 19:44:04
Aroclor 1254	GC21F-1732-74	CS540307A	ICV	564	500	12.8		03/07/2012 20:16:55
Aroclor 1260	GC21F-1732-75	CS600307A	ICV	501	500	0.293		03/07/2012 20:49:46
Aroclor 1262	GC21F-1732-76	CS620307A	ICV	479	500	-4.15		03/07/2012 21:22:37
Aroclor 1268	GC21F-1732-77	CS680307A	ICV	532	500	6.31		03/07/2012 21:55:29
Aroclor 1254	GC21F-1758-15	CS540410A	CCV	530	500	5.96		04/10/2012 17:30:35
Aroclor 1260	GC21F-1758-22	CS600410A	CCV	522	500	4.46		04/10/2012 21:20:27

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

10

FORM VII-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040065
ELAP ID No: 11078
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC21F-1732-69	CS160307A	ICV	1	7.51	7.43	7.59
		CS160307A	ICV	2	7.88	7.80	7.96
		CS160307A	ICV	3	8.50	8.42	8.58
		CS160307A	ICV	4	8.71	8.63	8.79
		CS160307A	ICV	5	8.85	8.77	8.93
Aroclor 1221	GC21F-1732-70	CS210307A	ICV	1	4.51	4.43	4.59
		CS210307A	ICV	2	5.74	5.66	5.82
		CS210307A	ICV	3	6.29	6.21	6.37
		CS210307A	ICV	4	6.49	6.41	6.57
		CS210307A	ICV	5	6.61	6.53	6.69
Aroclor 1232	GC21F-1732-71	CS320307A	ICV	1	6.61	6.53	6.69
		CS320307A	ICV	2	7.89	7.81	7.97
		CS320307A	ICV	3	8.51	8.43	8.59
		CS320307A	ICV	4	8.71	8.63	8.79
		CS320307A	ICV	5	8.85	8.77	8.93
Aroclor 1242	GC21F-1732-72	CS420307A	ICV	1	7.51	7.43	7.59
		CS420307A	ICV	2	7.88	7.80	7.96
		CS420307A	ICV	3	8.50	8.42	8.58
		CS420307A	ICV	4	8.71	8.63	8.79
		CS420307A	ICV	5	8.85	8.77	8.93
Aroclor 1248	GC21F-1732-73	CS480307A	ICV	1	9.42	9.34	9.50
		CS480307A	ICV	2	10.06	9.98	10.14
		CS480307A	ICV	3	10.70	10.62	10.78
		CS480307A	ICV	4	10.86	10.78	10.94
		CS480307A	ICV	5	11.26	11.18	11.34
Aroclor 1254	GC21F-1732-74	CS540307A	ICV	1	11.57	11.49	11.65
		CS540307A	ICV	2	12.21	12.13	12.29
		CS540307A	ICV	3	12.49	12.41	12.57
		CS540307A	ICV	4	13.95	13.87	14.03
		CS540307A	ICV	5	14.77	14.69	14.85
Aroclor 1260	GC21F-1732-75	CS600307A	ICV	1	14.76	14.68	14.84
		CS600307A	ICV	2	16.97	16.89	17.05
		CS600307A	ICV	3	17.83	17.75	17.91
		CS600307A	ICV	4	18.57	18.49	18.65
		CS600307A	ICV	5	20.66	20.58	20.74
Aroclor 1262	GC21F-1732-76	CS620307A	ICV	1	14.76	14.68	14.84
		CS620307A	ICV	2	16.97	16.89	17.05
		CS620307A	ICV	3	17.82	17.74	17.90

FORM VII-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040065
ELAP ID No: 11078
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620307A	ICV	4	18.57	18.49	18.65
		CS620307A	ICV	5	20.66	20.58	20.74
Aroclor 1268	GC21F-1732-77	CS680307A	ICV	1	18.57	18.49	18.65
		CS680307A	ICV	2	20.67	20.59	20.75
		CS680307A	ICV	3	18.36	18.28	18.44
		CS680307A	ICV	4	19.81	19.73	19.89
		CS680307A	ICV	5	20.16	20.08	20.24

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040065
ELAP ID No: 11078
Instrument ID: GC21F
GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1254	GC21F-1758-15	CS540410A	CCV	1	11.58	11.49	11.65
		CS540410A	CCV	2	12.23	12.13	12.29
		CS540410A	CCV	3	12.51	12.41	12.57
		CS540410A	CCV	4	13.97	13.87	14.03
		CS540410A	CCV	5	14.78	14.69	14.85
Aroclor 1260	GC21F-1758-22	CS600410A	CCV	1	14.78	14.68	14.84
		CS600410A	CCV	2	16.99	16.89	17.05
		CS600410A	CCV	3	17.85	17.75	17.91
		CS600410A	CCV	4	18.59	18.49	18.65
		CS600410A	CCV	5	20.70	20.58	20.74

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

10

ANALYTICAL SEQUENCE (GC21B)

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040065

ELAP ID No: 11078

Instrument ID: GC21B Init. Calib. Date(s): 03/05/12,03/06/12,03/07/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.50 DCBP RT: 27.29

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	HEXANE BLANK	120305B01	GC21B-1671-1	03/05/2012 15:05:50		
02	A1016 20 PPB	030516A	GC21B-1671-2	03/05/2012 15:38:40		
03	A1016 100 PPB	030516B	GC21B-1671-3	03/05/2012 16:11:31		
04	A1016 250 PPB	030516C	GC21B-1671-4	03/05/2012 16:44:22		
05	A1016 500 PPB	030516D	GC21B-1671-5	03/05/2012 17:17:14		
06	A1016 1000 PPB	030516E	GC21B-1671-6	03/05/2012 17:50:05		
07	A1221 20 PPB	030521A	GC21B-1671-7	03/05/2012 18:22:56		
08	A1221 100 PPB	030521B	GC21B-1671-8	03/05/2012 18:55:47		
09	A1221 250 PPB	030521C	GC21B-1671-9	03/05/2012 19:28:39		
10	A1221 500 PPB	030521D	GC21B-1671-10	03/05/2012 20:01:30		
11	A1221 1000 PPB	030521E	GC21B-1671-11	03/05/2012 20:34:21		
12	A1232 20 PPB	030532A	GC21B-1671-12	03/05/2012 21:07:12		
13	A1232 100 PPB	030532B	GC21B-1671-13	03/05/2012 21:40:03		
14	A1232 250 PPB	030532C	GC21B-1671-14	03/05/2012 22:12:54		
15	A1232 500 PPB	030532D	GC21B-1671-15	03/05/2012 22:45:45		
16	A1232 1000 PPB	030532E	GC21B-1671-16	03/05/2012 23:18:36		
17	A1242 20 PPB	030542A	GC21B-1671-17	03/05/2012 23:51:27		
18	A1242 100 PPB	030542B	GC21B-1671-18	03/06/2012 00:24:18		
19	A1242 250 PPB	030542C	GC21B-1671-19	03/06/2012 00:57:08		
20	A1242 500 PPB	030542D	GC21B-1671-20	03/06/2012 01:29:58		
21	A1242 1000 PPB	030542E	GC21B-1671-21	03/06/2012 02:02:48		
22	A1248 20 PPB	030548A	GC21B-1671-22	03/06/2012 02:35:39		
23	A1248 100 PPB	030548B	GC21B-1671-23	03/06/2012 03:08:30		
24	A1248 250 PPB	030548C	GC21B-1671-24	03/06/2012 03:41:20		
25	A1248 500 PPB	030548D	GC21B-1671-25	03/06/2012 04:14:11		
26	A1248 1000 PPB	030548E	GC21B-1671-26	03/06/2012 04:47:02		
27	A1254 20 PPB	030554A	GC21B-1671-27	03/06/2012 05:19:53	6.50	27.29
28	A1254 100 PPB	030554B	GC21B-1671-28	03/06/2012 05:52:44	6.49	27.28
29	A1254 250 PPB	030554C	GC21B-1671-29	03/06/2012 06:25:34	6.50	27.29
30	A1254 500 PPB	030554D	GC21B-1671-30	03/06/2012 06:58:24	6.50	27.29
31	A1254 1000 PPB	030554E	GC21B-1671-31	03/06/2012 07:31:14	6.50	27.29
32	A1260 20 PPB	030560A	GC21B-1671-32	03/06/2012 08:04:04		
33	A1260 100 PPB	030560B	GC21B-1671-33	03/06/2012 08:36:54		
34	A1260 250 PPB	030560C	GC21B-1671-34	03/06/2012 09:09:45		
35	A1260 500 PPB	030560D	GC21B-1671-35	03/06/2012 09:42:36		
36	A1260 1000 PPB	030560E	GC21B-1671-36	03/06/2012 10:15:26		
37	A1262 100 PPB	030562B	GC21B-1671-38	03/06/2012 11:21:04		
38	A1262 250 PPB	030562C	GC21B-1671-39	03/06/2012 11:53:55		

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040065

ELAP ID No: 11078

Instrument ID: GC21B Init. Calib. Date(s): 03/05/12,03/06/12,03/07/12

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.50 DCBP RT: 27.29

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	030562D	GC21B-1671-40	03/06/2012 12:26:45		
40	A1262 1000 PPB	030562E	GC21B-1671-41	03/06/2012 12:59:36		
41	A1268 20 PPB	030568A	GC21B-1671-42	03/06/2012 13:32:25		
42	A1268 100 PPB	030568B	GC21B-1671-43	03/06/2012 14:05:16		
43	A1268 250 PPB	030568C	GC21B-1671-44	03/06/2012 14:38:06		
44	A1268 500 PPB	030568D	GC21B-1671-45	03/06/2012 15:10:57		
45	A1268 1000 PPB	030568E	GC21B-1671-46	03/06/2012 15:43:47		
46	IUPAC 15 20 PPB	0305FSA	GC21B-1671-48	03/06/2012 16:49:27		
47	IUPAC 15 50 PPB	0305FSB	GC21B-1671-49	03/06/2012 17:22:17		
48	IUPAC 15 80 PPB	0305FSC	GC21B-1671-50	03/06/2012 17:55:06		
49	IUPAC 15 100 PPB	0305FSD	GC21B-1671-51	03/06/2012 18:27:56		
50	IUPAC 15 200 PPB	0305FSE	GC21B-1671-52	03/06/2012 19:00:46		
51	A1262 20 PPB	030562A	GC21B-1671-69	03/07/2012 16:27:02		
52	A1016 500 PPB	CS160307A	GC21B-1671-71	03/07/2012 17:32:43	6.50	27.30
53	A1221 500 PPB	CS210307A	GC21B-1671-72	03/07/2012 18:05:34	6.50	27.30
54	A1232 500 PPB	CS320307A	GC21B-1671-73	03/07/2012 18:38:25	6.50	27.30
55	A1242 500 PPB	CS420307A	GC21B-1671-74	03/07/2012 19:11:17	6.51	27.29
56	A1248 500 PPB	CS480307A	GC21B-1671-75	03/07/2012 19:44:08	6.50	27.29
57	A1254 500 PPB	CS540307A	GC21B-1671-76	03/07/2012 20:16:59	6.50	27.29
58	A1260 500 PPB	CS600307A	GC21B-1671-77	03/07/2012 20:49:50	6.50	27.29
59	A1262 500 PPB	CS620307A	GC21B-1671-78	03/07/2012 21:22:41	6.49	27.29
60	A1268 500 PPB	CS680307A	GC21B-1671-79	03/07/2012 21:55:33	6.50	27.30
61	SURR IUPAC 15 70 PPB	120307FS01	GC21B-1671-80	03/07/2012 22:28:25	6.49	27.28
62	A1254 500 PPB	CS540410A	GC21B-1697-15	04/10/2012 17:30:38	6.51	27.35
63	LCS-80(LAB CONTROL SPIKE)	AP04150L	GC21B-1697-18	04/10/2012 19:09:10	6.51	27.34
64	LCSD-80(LAB CONTROL SPIKE DUPLIC	AP04150S	GC21B-1697-19	04/10/2012 19:42:02	6.50	27.35
65	EFFLUENT	AP04150	GC21B-1697-20	04/10/2012 20:14:53	6.50	27.34
66	A1260 500 PPB	CS600410A	GC21B-1697-22	04/10/2012 21:20:32	6.50	27.33

Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC21B)

12

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040065
ELAP ID No: 11078
Date(s) Analyzed: 03/05/12,03/06/12,03/07/12
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC21B-1671-2	030516A	20.0	120.337		
	GC21B-1671-3	030516B	100	111.907		
	GC21B-1671-4	030516C	250	111.317		
	GC21B-1671-5	030516D	500	107.059		
	GC21B-1671-6	030516E	1000	99.891	110.102	6.8
Aroclor 1221	GC21B-1671-7	030521A	20.0	23.787		
	GC21B-1671-8	030521B	100	27.991		
	GC21B-1671-9	030521C	250	27.257		
	GC21B-1671-10	030521D	500	26.748		
	GC21B-1671-11	030521E	1000	27.721	26.701	6.4
Aroclor 1232	GC21B-1671-12	030532A	20.0	54.990		
	GC21B-1671-13	030532B	100	51.128		
	GC21B-1671-14	030532C	250	49.498		
	GC21B-1671-15	030532D	500	48.606		
	GC21B-1671-16	030532E	1000	48.650	50.574	5.3
Aroclor 1242	GC21B-1671-17	030542A	20.0	87.582		
	GC21B-1671-18	030542B	100	89.513		
	GC21B-1671-19	030542C	250	89.817		
	GC21B-1671-20	030542D	500	89.933		
	GC21B-1671-21	030542E	1000	86.834	88.736	1.6
Aroclor 1248	GC21B-1671-22	030548A	20.0	94.217		
	GC21B-1671-23	030548B	100	102.760		
	GC21B-1671-24	030548C	250	97.769		
	GC21B-1671-25	030548D	500	93.470		
	GC21B-1671-26	030548E	1000	91.525	95.948	4.6
Aroclor 1254	GC21B-1671-27	030554A	20.0	152.281		
	GC21B-1671-28	030554B	100	157.648		
	GC21B-1671-29	030554C	250	152.754		
	GC21B-1671-30	030554D	500	165.999		
	GC21B-1671-31	030554E	1000	142.620	154.260	5.5
Aroclor 1260	GC21B-1671-32	030560A	20.0	243.949		
	GC21B-1671-33	030560B	100	220.381		
	GC21B-1671-34	030560C	250	222.813		
	GC21B-1671-35	030560D	500	224.440		
	GC21B-1671-36	030560E	1000	195.330	221.383	7.8
Aroclor 1262	GC21B-1671-69	030562A	20.0	243.969		
	GC21B-1671-38	030562B	100	253.297		
	GC21B-1671-39	030562C	250	235.384		
	GC21B-1671-40	030562D	500	238.171		
	GC21B-1671-41	030562E	1000	225.780	239.320	4.3

FORM VI-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040065
ELAP ID No: 11078
Date(s) Analyzed: 03/05/12,03/06/12,03/07/12
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC21B-1671-42	030568A	20.0	422.172		
	GC21B-1671-43	030568B	100	412.001		
	GC21B-1671-44	030568C	250	393.465		
	GC21B-1671-45	030568D	500	382.530		
	GC21B-1671-46	030568E	1000	366.669	395.367	5.6
TCMX	GC21B-1671-27	030554A	2.00	609.778		
	GC21B-1671-28	030554B	5.00	578.484		
	GC21B-1671-29	030554C	8.00	570.176		
	GC21B-1671-30	030554D	10.0	583.378		
	GC21B-1671-31	030554E	20.0	553.519	579.067	3.6
4,4'-Dibromobiphenyl	GC21B-1671-48	0305FSA	20.0	401.088		
	GC21B-1671-49	0305FSB	50.0	376.308		
	GC21B-1671-50	0305FSC	80.0	387.950		
	GC21B-1671-51	0305FSD	100	380.828		
	GC21B-1671-52	0305FSE	200	354.115	380.058	4.5
DCBP	GC21B-1671-27	030554A	20.0	635.017		
	GC21B-1671-28	030554B	50.0	612.726		
	GC21B-1671-29	030554C	80.0	597.159		
	GC21B-1671-30	030554D	100	629.284		
	GC21B-1671-31	030554E	200	577.825	610.402	3.8

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

12

INITIAL/CONTINUING CALIBRATION DATA (GC21B)

13

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12040065

ELAP ID No: 11078

Instrument ID: GC21B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC21B-1671-71	CS160307A	ICV	493	500	-1.35		03/07/2012 17:32:43
Aroclor 1221	GC21B-1671-72	CS210307A	ICV	512	500	2.37		03/07/2012 18:05:34
Aroclor 1232	GC21B-1671-73	CS320307A	ICV	539	500	7.75		03/07/2012 18:38:25
Aroclor 1242	GC21B-1671-74	CS420307A	ICV	449	500	-10.2		03/07/2012 19:11:17
Aroclor 1248	GC21B-1671-75	CS480307A	ICV	489	500	-2.23		03/07/2012 19:44:08
Aroclor 1254	GC21B-1671-76	CS540307A	ICV	545	500	9.02		03/07/2012 20:16:59
Aroclor 1260	GC21B-1671-77	CS600307A	ICV	524	500	4.86		03/07/2012 20:49:50
Aroclor 1262	GC21B-1671-78	CS620307A	ICV	507	500	1.33		03/07/2012 21:22:41
Aroclor 1268	GC21B-1671-79	CS680307A	ICV	546	500	9.11		03/07/2012 21:55:33
Aroclor 1254	GC21B-1697-15	CS540410A	CCV	565	500	13.0		04/10/2012 17:30:38
Aroclor 1260	GC21B-1697-22	CS600410A	CCV	548	500	9.57		04/10/2012 21:20:32

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

13

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040065
ELAP ID No: 11078
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC21B-1671-71	CS160307A	ICV	1	8.11	8.03	8.19
		CS160307A	ICV	2	8.52	8.44	8.60
		CS160307A	ICV	3	9.13	9.05	9.21
		CS160307A	ICV	4	9.36	9.28	9.44
		CS160307A	ICV	5	9.54	9.46	9.62
Aroclor 1221	GC21B-1671-72	CS210307A	ICV	1	5.31	5.23	5.39
		CS210307A	ICV	2	6.46	6.38	6.54
		CS210307A	ICV	3	6.94	6.86	7.02
		CS210307A	ICV	4	7.14	7.06	7.22
		CS210307A	ICV	5	7.26	7.18	7.34
Aroclor 1232	GC21B-1671-73	CS320307A	ICV	1	7.27	7.19	7.35
		CS320307A	ICV	2	8.53	8.45	8.61
		CS320307A	ICV	3	9.14	9.06	9.22
		CS320307A	ICV	4	9.37	9.29	9.45
		CS320307A	ICV	5	9.55	9.47	9.63
Aroclor 1242	GC21B-1671-74	CS420307A	ICV	1	8.12	8.04	8.20
		CS420307A	ICV	2	8.53	8.45	8.61
		CS420307A	ICV	3	9.14	9.06	9.22
		CS420307A	ICV	4	9.36	9.28	9.44
		CS420307A	ICV	5	9.54	9.46	9.62
Aroclor 1248	GC21B-1671-75	CS480307A	ICV	1	10.06	9.98	10.14
		CS480307A	ICV	2	10.80	10.72	10.88
		CS480307A	ICV	3	11.41	11.33	11.49
		CS480307A	ICV	4	11.61	11.53	11.69
		CS480307A	ICV	5	12.08	12.00	12.16
Aroclor 1254	GC21B-1671-76	CS540307A	ICV	1	12.26	12.18	12.34
		CS540307A	ICV	2	13.04	12.96	13.12
		CS540307A	ICV	3	13.33	13.25	13.41
		CS540307A	ICV	4	14.80	14.72	14.88
		CS540307A	ICV	5	15.67	15.59	15.75
Aroclor 1260	GC21B-1671-77	CS600307A	ICV	1	15.67	15.59	15.75
		CS600307A	ICV	2	17.94	17.86	18.02
		CS600307A	ICV	3	19.11	19.03	19.19
		CS600307A	ICV	4	19.76	19.68	19.84
		CS600307A	ICV	5	22.38	22.30	22.46
Aroclor 1262	GC21B-1671-78	CS620307A	ICV	1	15.66	15.58	15.74
		CS620307A	ICV	2	17.94	17.86	18.02
		CS620307A	ICV	3	19.11	19.03	19.19

FORM VII-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040065
ELAP ID No: 11078
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620307A	ICV	4	19.75	19.67	19.83
		CS620307A	ICV	5	22.38	22.30	22.46
Aroclor 1268	GC21B-1671-79	CS680307A	ICV	1	19.75	19.67	19.83
		CS680307A	ICV	2	22.38	22.30	22.46
		CS680307A	ICV	3	19.51	19.43	19.59
		CS680307A	ICV	4	21.17	21.09	21.25
		CS680307A	ICV	5	21.61	21.53	21.69

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040065
ELAP ID No: 11078
Instrument ID: GC21B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1254	GC21B-1697-15	CS540410A	CCV	1	12.28	12.18	12.34
		CS540410A	CCV	2	13.05	12.96	13.12
		CS540410A	CCV	3	13.34	13.25	13.41
		CS540410A	CCV	4	14.82	14.72	14.88
		CS540410A	CCV	5	15.69	15.59	15.75
Aroclor 1260	GC21B-1697-22	CS600410A	CCV	1	15.68	15.59	15.75
		CS600410A	CCV	2	17.96	17.86	18.02
		CS600410A	CCV	3	19.14	19.03	19.19
		CS600410A	CCV	4	19.78	19.68	19.84
		CS600410A	CCV	5	22.41	22.30	22.46

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

13

QC SAMPLE RAW DATA

14

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	LRF ID:	PBLK-80RR1
Matrix:	Polyurethane Foam	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04150BRR1
Percent Moisture:	N/A	Lab File ID:	GC21F-1759-21
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/09/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/11/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/20/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	LRF ID:	PBLK-80RR1
Matrix:	Polyurethane Foam	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04150BRR1
Percent Moisture:	N/A	Lab File ID:	GC21B-1698-21
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/09/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/11/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/20/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	LRF ID:	LCS-80
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04150L
Percent Moisture:	N/A	Lab File ID:	GC21F-1758-18
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/09/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/10/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.978	
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/20/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	LRF ID:	LCS-80
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04150L
Percent Moisture:	N/A	Lab File ID:	GC21B-1697-18
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/09/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/10/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	1.00	
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/20/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	Client ID:	LCS-80(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-80	Lab Sample ID:	AP04150L
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	4/10/2012 7:09:07 PM	Date Analyzed:	4/10/2012 7:09:10 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1758-18	Lab File ID 2:	GC21B-1697-18
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.43	7.59			
		2	NA	7.80	7.96			
		3	NA	8.42	8.58			
		4	NA	8.63	8.79			
		5	NA	8.77	8.93			
	2	1	NA	8.03	8.19			
		2	NA	8.44	8.60			
		3	NA	9.05	9.21			
		4	NA	9.28	9.44			
		5	NA	9.46	9.62			
Aroclor 1221	1	1	NA	4.43	4.59			
		2	NA	5.66	5.82			
		3	NA	6.21	6.37			
		4	NA	6.41	6.57			
		5	NA	6.53	6.69			
	2	1	NA	5.23	5.39			
		2	NA	6.38	6.54			
		3	NA	6.86	7.02			
		4	NA	7.06	7.22			
		5	NA	7.18	7.34			
Aroclor 1232	1	1	NA	6.53	6.69			
		2	NA	7.81	7.97			
		3	NA	8.43	8.59			
		4	NA	8.63	8.79			
		5	NA	8.77	8.93			
	2	1	NA	7.19	7.35			
		2	NA	8.45	8.61			
		3	NA	9.06	9.22			
		4	NA	9.29	9.45			
		5	NA	9.47	9.63			
Aroclor 1242	1	1	NA	7.43	7.59			
		2	NA	7.80	7.96			
		3	NA	8.42	8.58			
		4	NA	8.63	8.79			
		5	NA	8.77	8.93			
	2	1	NA	8.04	8.20			
		2	NA	8.45	8.61			
		3	NA	9.06	9.22			
		4	NA	9.28	9.44			
		5	NA	9.46	9.62			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	Client ID:	LCS-80(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-80	Lab Sample ID:	AP04150L
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	4/10/2012 7:09:07 PM	Date Analyzed:	4/10/2012 7:09:10 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1758-18	Lab File ID 2:	GC21B-1697-18
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	9.43	9.34	9.50			
		2	10.07	9.98	10.14			
		3	10.71	10.62	10.78			
		4	10.87	10.78	10.94			
		5	11.27	11.18	11.34	0.978		
	2	1	10.07	9.98	10.14			
		2	10.80	10.72	10.88			
		3	11.41	11.33	11.49			
		4	11.62	11.53	11.69			
		5	12.09	12.00	12.16	1.00	2.22	
Aroclor 1254	1	1	NA	11.49	11.65			
		2	NA	12.13	12.29			
		3	NA	12.41	12.57			
		4	NA	13.87	14.03			
		5	NA	14.69	14.85			
	2	1	NA	12.18	12.34			
		2	NA	12.96	13.12			
		3	NA	13.25	13.41			
		4	NA	14.72	14.88			
		5	NA	15.59	15.75			
Aroclor 1260	1	1	NA	14.68	14.84			
		2	NA	16.89	17.05			
		3	NA	17.75	17.91			
		4	NA	18.49	18.65			
		5	NA	20.58	20.74			
	2	1	NA	15.59	15.75			
		2	NA	17.86	18.02			
		3	NA	19.03	19.19			
		4	NA	19.68	19.84			
		5	NA	22.30	22.46			

14

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	LRF ID:	LCSD-80
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE DUPLICATE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04150S
Percent Moisture:	N/A	Lab File ID:	GC21F-1758-19
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/09/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/10/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.995	
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/20/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	LRF ID:	LCSD-80
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE DUPLICATE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04150S
Percent Moisture:	N/A	Lab File ID:	GC21B-1697-19
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/09/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/10/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	1.08	
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/20/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	Client ID:	LCSD-80(LAB CONTROL SPIKE DUPLICATE)
LRF Sample ID:	LCSD-80	Lab Sample ID:	AP04150S
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	4/10/2012 7:41:58 PM	Date Analyzed:	4/10/2012 7:42:02 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1758-19	Lab File ID 2:	GC21B-1697-19
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.43	7.59			
		2	NA	7.80	7.96			
		3	NA	8.42	8.58			
		4	NA	8.63	8.79			
		5	NA	8.77	8.93			
	2	1	NA	8.03	8.19			
		2	NA	8.44	8.60			
		3	NA	9.05	9.21			
		4	NA	9.28	9.44			
		5	NA	9.46	9.62			
Aroclor 1221	1	1	NA	4.43	4.59			
		2	NA	5.66	5.82			
		3	NA	6.21	6.37			
		4	NA	6.41	6.57			
		5	NA	6.53	6.69			
	2	1	NA	5.23	5.39			
		2	NA	6.38	6.54			
		3	NA	6.86	7.02			
		4	NA	7.06	7.22			
		5	NA	7.18	7.34			
Aroclor 1232	1	1	NA	6.53	6.69			
		2	NA	7.81	7.97			
		3	NA	8.43	8.59			
		4	NA	8.63	8.79			
		5	NA	8.77	8.93			
	2	1	NA	7.19	7.35			
		2	NA	8.45	8.61			
		3	NA	9.06	9.22			
		4	NA	9.29	9.45			
		5	NA	9.47	9.63			
Aroclor 1242	1	1	NA	7.43	7.59			
		2	NA	7.80	7.96			
		3	NA	8.42	8.58			
		4	NA	8.63	8.79			
		5	NA	8.77	8.93			
	2	1	NA	8.04	8.20			
		2	NA	8.45	8.61			
		3	NA	9.06	9.22			
		4	NA	9.28	9.44			
		5	NA	9.46	9.62			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040065
ELAP ID No:	11078	Client ID:	LCSD-80(LAB CONTROL SPIKE DUPLICATE)
LRF Sample ID:	LCSD-80	Lab Sample ID:	AP04150S
Instrument 1 ID:	GC21F	Instrument 2 ID:	GC21B
Date Analyzed:	4/10/2012 7:41:58 PM	Date Analyzed:	4/10/2012 7:42:02 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21F-1758-19	Lab File ID 2:	GC21B-1697-19
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	9.43	9.34	9.50			
		2	10.08	9.98	10.14			
		3	10.71	10.62	10.78			
		4	10.87	10.78	10.94			
		5	11.27	11.18	11.34	0.995		
	2	1	10.07	9.98	10.14			
		2	10.80	10.72	10.88			
		3	11.42	11.33	11.49			
		4	11.62	11.53	11.69			
		5	12.09	12.00	12.16	1.08	8.19	
Aroclor 1254	1	1	NA	11.49	11.65			
		2	NA	12.13	12.29			
		3	NA	12.41	12.57			
		4	NA	13.87	14.03			
		5	NA	14.69	14.85			
	2	1	NA	12.18	12.34			
		2	NA	12.96	13.12			
		3	NA	13.25	13.41			
		4	NA	14.72	14.88			
		5	NA	15.59	15.75			
Aroclor 1260	1	1	NA	14.68	14.84			
		2	NA	16.89	17.05			
		3	NA	17.75	17.91			
		4	NA	18.49	18.65			
		5	NA	20.58	20.74			
	2	1	NA	15.59	15.75			
		2	NA	17.86	18.02			
		3	NA	19.03	19.19			
		4	NA	19.68	19.84			
		5	NA	22.30	22.46			

14

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/20/2012
Lims Version : 5.0.6.5

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: 115058 NBHS PCB SAMPLING
Sampling Date(s): April 17, 2012
Lab Report ID: 12040231
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis (TO-10A)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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CASE NARRATIVE

April 30, 2012

CASE NARRATIVE

This data package (SDG ID: 12040231) consists of 2 polyurethane foam samples received on 04/20/2012. The samples are from Project Name: 115058 NBHS PCB SAMPLING.

This sample delivery group consists of the following samples:

1

Lab Sample ID	Client ID	Collection Date
AP04915	VAPOR INLET	04/17/2012 14:25
AP04916	VAPOR DISCHARGE	04/17/2012 14:30

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via FEDEX delivery service on 04/20/2012.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) The following cooler temperature was recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 4.7 degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by EPA Method TO-10A/EPA Method 8082 with Dual GC Column Analysis. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
(2.) J-Denotes concentration result greater than the MDL but less than the RL.
(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

William A. Kotas
Client Services Manager

S:\Lims Data\1204\12040231\Package\CN_12040231_Rev00.doc

SAMPLE CHAIN OF CUSTODY

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical™ www.pacelabs.com

Page: 1 of 1

Section A Required Client Information:

Company: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Email To: ALEONARD@TRCSOLUTIONS.COM DSULLIVAN
Phone: 617 462 8090 Fax: 978 9705600
Requested Due Date/TAT:

Section B Required Project Information:

Report To: AL LEONARD
Copy To: DAVID SULLIVAN
JASON FIERO
Purchase Order No.: C115058
Project Name: NBHS IRA
Project Number: 115058

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

<12040231P1>

120402311

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER AIR

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER MA

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.	
1	VAPOR INLET	AR	C	4/17	10:25	4/17	14:25	76°	1	✓								✓		AP04915	5 l/MIN
2	VAPOR DISCHARGE	AR	C	4/17	10:30	4/17	14:30	75°	1	✓								✓		AP04916	5 l/MIN
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Requested Analysis: PCBs, Residual Chlorine (Y/N), FLOW

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jason C. Fiero TRC	4/19		VIA FedEx		
VIA FedEx			[signature] PACE	4/20/12	07:59

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
4.7	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JASON C. FIERO

SIGNATURE of SAMPLER: Jason C. Fiero

DATE Signed (MM / DD / YY): 4/17/2012

e-File(ALLQ020rev.3,31Mar05))22Jun2005

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG

Pace Analytical®

Prep Date: 04/23/12 **Batch ID: 17668**

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Hg Shake (MM/DD)	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
														Initial for required Clean Up Steps: ALL		ALL	ALL			
1	167533	PBLK-51	AP04915B	PF10		E PCB A	SOX	N/A	1	15:20	08:00	NA	NA	04/24	NA	04/24	04/24	5	04/24	LOT 27687
2	167640	LCSD-51	AP04915S	PF10		E PCB A	SOX	N/A	1	15:20	08:00	NA	NA	04/24	NA	04/24	04/24	5	04/24	LOT 27687
3	167532	LCS-51	AP04915L	PF10		E PCB A	SOX	N/A	1	15:20	08:00	NA	NA	04/24	NA	04/24	04/24	5	04/24	LOT 27687
4	167530	12040231-01	AP04915	PF10		E PCB A	SOX	N/A	1200000	15:20	08:00	NA	NA	04/24	NA	04/24	04/24	5	04/24	Lot: 23318(11040047)
5	167531	12040231-02	AP04916	PF10		E PCB A	SOX	N/A	1200000	15:20	08:00	NA	NA	04/24	NA	04/24	04/24	5	04/24	Lot: 23318(11040047)

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	062210	NA		☑	☑	☑	☑	☐	☐	☐
0.05ppm TCMX / 0.5ppm DCBP in Hexan	112311B031P147A1-10	500	0.05/0.5	☑	☑	☑	☑	☐	☐	☐
A1254 @ 1.00ppm in Hexane	013112B032P012A	1000	1.0	☐	☑	☐	☐	☐	☐	☐
Sulfuric Acid (Main Lab)	K42027	NA		☑	☑	☑	☑	☐	☐	☐
10% Florisil Main Lab CURRENT	031212MLB2P104B	NA		☑	☑	☑	☑	☐	☐	☐
Hexane (Dewar)	DF919	NA		☑	☑	☑	☑	☐	☐	☐
Ethyl Ether (fisher)	117044	NA		☑	☑	☑	☑	☐	☐	☐

3

Analyst Review: Anthony Luz
Anthony Luz

Peer Review: Craig Petrask
Craig Petrask

Print Date: 4/30/2012
Lims Version : 5.0.6.5
_EXT - LOGBOOK_GC-SV; Rev 02; 1.18.2010; EXTRACTION

PCB SCREEN SHEET

LRF: 12040231 **Batch ID:17668**

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Percent Solids	Dry Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AP04915B	GC10B-316-31	PF10	**04/23/12**	1	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
	GC10F-345-31	PF10	**04/23/12**	1	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
AP04915S	GC10B-316-33	PF10	**04/23/12**	1	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
	GC10F-345-33	PF10	**04/23/12**	1	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
AP04915L	GC10B-316-32	PF10	**04/23/12**	1	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
	GC10F-345-32	PF10	**04/23/12**	1	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
AP04915	GC10B-316-34	PF10	**04/23/12**	1200000	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
	GC10F-345-34	PF10	**04/23/12**	1200000	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
AP04916	GC10B-316-35	PF10	**04/23/12**	1200000	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone
	GC10F-345-35	PF10	**04/23/12**	1200000	N/A	NA	5	NA		1	NA	5x	Jaime Frattellone

3

COMMENTS: _____

Page 1 of 1

Print Date: 4/30/2012
Lims Version : 5.0.6.5
_EXT-INJSHEET_NL; Rev 00; 09.29.2010; EXTRACTION

SURROGATE % RECOVERY SUMMARY

4

2F-1
PCB SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 12040231

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-51	AP04915B	GC10F-345-31	97.8	117					0
PBLK-51	AP04915B	GC10B-316-31			101	115			0
LCS-51	AP04915L	GC10F-345-32	96.6	116					0
LCS-51	AP04915L	GC10B-316-32			93.0	110			0
LCSD-51	AP04915S	GC10F-345-33	93.9	116					0
LCSD-51	AP04915S	GC10B-316-33			96.1	111			0
12040231-01	AP04915	GC10F-345-34	100	117					0
12040231-01	AP04915	GC10B-316-34			94.2	109			0
12040231-02	AP04916	GC10F-345-35	99.8	116					0
12040231-02	AP04916	GC10B-316-35			97.1	110			0

4

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(60.0-120)
SURR2 = DECACHLOROBIPHENYL	(60.0-120)

Form II-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

LABORATORY CONTROL SPIKE SUMMARY

5

3F-1
PCB LAB CONTROL SAMPLE (LCS) / LAB CONTROL SAMPLE DUPLICATE (LCSD) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078 SDG No: 12040231

LCS LRF ID: LCS-51 LCSD LRF ID: LCSD-51

LCS Lab File ID: GC10F-345-32 LCSD Lab File ID: GC10F-345-33

LCS Sample Inj Date: 04/24/2012 17:22:23 LCSD Sample Inj Date: 04/24/2012 17:34:57

LCS Lab Sample ID: AP04915L LCSD Lab Sample ID: AP04915S

COMPOUND	SPIKE ADDED (ug)	LCS CONCENTRATION (ug)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1254	1.00	1.04	104	(70.0-130)

COMPOUND	SPIKE ADDED (ug)	LCSD CONCENTRATION (ug)	LCSD PERCENT RECOVERY #	RPD #	QC LIMITS[1] RPD	REC
Aroclor 1254	1.00	1.03	103	0.966	20	(70.0-130)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

5

3F-1
PCB LAB CONTROL SAMPLE (LCS) / LAB CONTROL SAMPLE DUPLICATE (LCSD) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078 SDG No: 12040231

LCS LRF ID: LCS-51 LCSD LRF ID: LCSD-51

LCS Lab File ID: GC10B-316-32 LCSD Lab File ID: GC10B-316-33

LCS Sample Inj Date: 04/24/2012 17:22:27 LCSD Sample Inj Date: 04/24/2012 17:35:01

LCS Lab Sample ID: AP04915L LCSD Lab Sample ID: AP04915S

COMPOUND	SPIKE ADDED (ug)	LCS CONCENTRATION (ug)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1254	1.00	1.02	102	(70.0-130)

COMPOUND	SPIKE ADDED (ug)	LCSD CONCENTRATION (ug)	LCSD PERCENT RECOVERY #	RPD #	QC LIMITS[1] RPD	REC
Aroclor 1254	1.00	1.01	101	0.985	20	(70.0-130)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

5

METHOD BLANK SUMMARY

6

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	Blank Sample ID:	PBLK-51
Matrix:	Polyurethane Foam (PF10)	Method Blank ID:	AP04915B
Instrument ID:	GC10F	Lab File ID:	GC10F-345-31
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	04/23/2012
GC Column (1):	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm	Date Analyzed:	04/24/2012
		Time Analyzed:	17:09:50

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-51(LAB CONTROL SPIKE)	AP04915L	GC10F-345-32	04/24/2012 17:22:23
LCSD-51(LAB CONTROL SPIKE DUPLICATE)	AP04915S	GC10F-345-33	04/24/2012 17:34:57
VAPOR INLET	AP04915	GC10F-345-34	04/24/2012 17:47:31
VAPOR DISCHARGE	AP04916	GC10F-345-35	04/24/2012 18:00:06

6

FORM IV-CLP-PCB(PACE)

Print date: 4/30/2012
Lims Version : 5.0.6.5

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	Blank Sample ID:	PBLK-51
Matrix:	Polyurethane Foam (PF10)	Method Blank ID:	AP04915B
Instrument ID:	GC10B	Lab File ID:	GC10B-316-31
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	04/23/2012
GC Column (1):	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm	Date Analyzed:	04/24/2012
		Time Analyzed:	17:09:54

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-51(LAB CONTROL SPIKE)	AP04915L	GC10B-316-32	04/24/2012 17:22:27
LCSD-51(LAB CONTROL SPIKE DUPLICATE)	AP04915S	GC10B-316-33	04/24/2012 17:35:01
VAPOR INLET	AP04915	GC10B-316-34	04/24/2012 17:47:35
VAPOR DISCHARGE	AP04916	GC10B-316-35	04/24/2012 18:00:10

6

FORM IV-CLP-PCB(PACE)

Print date: 4/30/2012
Lims Version : 5.0.6.5

SAMPLE ANALYSIS DATA

7

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	LRF ID:	12040231-01
Matrix:	Polyurethane Foam	Client ID:	VAPOR INLET
Sample wt(Dry)/vol:	1.20 m³	Lab Sample ID:	AP04915
Percent Moisture:	N/A	Date Received:	04/20/2012
Extraction:	Soxhlet Method (3540C)	Date Extracted:	04/23/2012
Conc. Extract Volume:	5000 uL	Date Analyzed:	04/24/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

Injection Volume: 1.0 uL

Lab File ID: GC10F-345-34

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

Injection Volume: 1.0 uL

Lab File ID: GC10B-316-34

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/M³	Q
1	12674-11-2	Aroclor 1016	0.0833	U
1	11104-28-2	Aroclor 1221	0.0833	U
1	11141-16-5	Aroclor 1232	0.0833	U
1	53469-21-9	Aroclor 1242	0.0833	U
1	12672-29-6	Aroclor 1248	0.0833	U
1	11097-69-1	Aroclor 1254	0.0833	U
1	11096-82-5	Aroclor 1260	0.0833	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Note: Concentration results based upon client supplied air volumes.

FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	LRF ID:	12040231-02
Matrix:	Polyurethane Foam	Client ID:	VAPOR DISCHARGE
Sample wt(Dry)/vol:	1.20 m³	Lab Sample ID:	AP04916
Percent Moisture:	N/A	Date Received:	04/20/2012
Extraction:	Soxhlet Method (3540C)	Date Extracted:	04/23/2012
Conc. Extract Volume:	5000 uL	Date Analyzed:	04/24/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

Injection Volume: 1.0 uL

Lab File ID: GC10F-345-35

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

Injection Volume: 1.0 uL

Lab File ID: GC10B-316-35

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/M³	Q
1	12674-11-2	Aroclor 1016	0.0833	U
1	11104-28-2	Aroclor 1221	0.0833	U
1	11141-16-5	Aroclor 1232	0.0833	U
1	53469-21-9	Aroclor 1242	0.0833	U
1	12672-29-6	Aroclor 1248	0.0833	U
1	11097-69-1	Aroclor 1254	0.0833	U
1	11096-82-5	Aroclor 1260	0.0833	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Note: Concentration results based upon client supplied air volumes.

FORM I-CLP-PCB

ANALYTICAL SEQUENCE (GC10F)

8

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040231

ELAP ID No: 11078

Instrument ID: GC10F Init. Calib. Date(s): 04/12/12,04/13/12

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 2.34 DCBP RT: 8.83

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	041216A	GC10F-337-3	04/12/2012 14:23:09		
02	A1016 100 PPB	041216B	GC10F-337-4	04/12/2012 14:35:44		
03	A1016 250 PPB	041216C	GC10F-337-5	04/12/2012 14:48:18		
04	A1016 500 PPB	041216D	GC10F-337-6	04/12/2012 15:00:53		
05	A1016 1000 PPB	041216E	GC10F-337-7	04/12/2012 15:13:28		
06	A1221 20 PPB	041221A	GC10F-337-8	04/12/2012 15:26:03		
07	A1221 100 PPB	041221B	GC10F-337-9	04/12/2012 15:38:38		
08	A1221 250 PPB	041221C	GC10F-337-10	04/12/2012 15:51:12		
09	A1221 500 PPB	041221D	GC10F-337-11	04/12/2012 16:03:46		
10	A1221 1000 PPB	041221E	GC10F-337-12	04/12/2012 16:16:21		
11	A1232 20 PPB	041232A	GC10F-337-13	04/12/2012 16:28:56		
12	A1232 100 PPB	041232B	GC10F-337-14	04/12/2012 16:41:30		
13	A1232 250 PPB	041232C	GC10F-337-15	04/12/2012 16:54:05		
14	A1232 500 PPB	041232D	GC10F-337-16	04/12/2012 17:06:39		
15	A1232 1000 PPB	041232E	GC10F-337-17	04/12/2012 17:19:14		
16	A1242 20 PPB	041242A	GC10F-337-18	04/12/2012 17:31:49		
17	A1242 100 PPB	041242B	GC10F-337-19	04/12/2012 17:44:23		
18	A1242 250 PPB	041242C	GC10F-337-20	04/12/2012 17:56:57		
19	A1242 500 PPB	041242D	GC10F-337-21	04/12/2012 18:09:32		
20	A1242 1000 PPB	041242E	GC10F-337-22	04/12/2012 18:22:06		
21	A1248 20 PPB	041248A	GC10F-337-23	04/12/2012 18:34:41		
22	A1248 100 PPB	041248B	GC10F-337-24	04/12/2012 18:47:14		
23	A1248 250 PPB	041248C	GC10F-337-25	04/12/2012 18:59:48		
24	A1248 500 PPB	041248D	GC10F-337-26	04/12/2012 19:12:23		
25	A1248 1000 PPB	041248E	GC10F-337-27	04/12/2012 19:24:58		
26	A1254 20 PPB	041254A	GC10F-337-28	04/12/2012 19:37:32	2.34	8.83
27	A1254 100 PPB	041254B	GC10F-337-29	04/12/2012 19:50:05	2.34	8.83
28	A1254 250 PPB	041254C	GC10F-337-30	04/12/2012 20:02:39	2.35	8.83
29	A1254 500 PPB	041254D	GC10F-337-31	04/12/2012 20:15:14	2.34	8.82
30	A1254 1000 PPB	041254E	GC10F-337-32	04/12/2012 20:27:48	2.35	8.82
31	A1260 20 PPB	041260A	GC10F-337-33	04/12/2012 20:40:22		
32	A1260 100 PPB	041260B	GC10F-337-34	04/12/2012 20:52:56		
33	A1260 250 PPB	041260C	GC10F-337-35	04/12/2012 21:05:31		
34	A1260 500 PPB	041260D	GC10F-337-36	04/12/2012 21:18:06		
35	A1260 1000 PPB	041260E	GC10F-337-37	04/12/2012 21:30:40		
36	A1262 20 PPB	041262A	GC10F-337-38	04/12/2012 21:43:14		
37	A1262 100 PPB	041262B	GC10F-337-39	04/12/2012 21:55:48		
38	A1262 250 PPB	041262C	GC10F-337-40	04/12/2012 22:08:22		

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040231

ELAP ID No: 11078

Instrument ID: GC10F Init. Calib. Date(s): 04/12/12,04/13/12

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 2.34 DCBP RT: 8.83

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	041262D	GC10F-337-41	04/12/2012 22:20:57		
40	A1262 1000 PPB	041262E	GC10F-337-42	04/12/2012 22:33:31		
41	A1268 20 PPB	041268A	GC10F-337-43	04/12/2012 22:46:06		
42	A1268 100 PPB	041268B	GC10F-337-44	04/12/2012 22:58:40		
43	A1268 250 PPB	041268C	GC10F-337-45	04/12/2012 23:11:14		
44	A1268 500 PPB	041268D	GC10F-337-46	04/12/2012 23:23:48		
45	A1268 1000 PPB	041268E	GC10F-337-47	04/12/2012 23:36:22		
46	IUPAC 15 20 PPB	0412FSA	GC10F-337-49	04/13/2012 00:01:31		
47	IUPAC 15 50 PPB	0412FSB	GC10F-337-50	04/13/2012 00:14:06		
48	IUPAC 15 80 PPB	0412FSC	GC10F-337-51	04/13/2012 00:26:40		
49	IUPAC 15 100 PPB	0412FSD	GC10F-337-52	04/13/2012 00:39:15		
50	IUPAC 15 200 PPB	0412FSE	GC10F-337-53	04/13/2012 00:51:50		
51	A1016 500 PPB	CS160412A	GC10F-337-55	04/13/2012 01:16:59	2.34	8.82
52	A1221 500 PPB	CS210412A	GC10F-337-56	04/13/2012 01:29:33	2.34	8.83
53	A1232 500 PPB	CS320412A	GC10F-337-57	04/13/2012 01:42:08	2.34	8.83
54	A1242 500 PPB	CS420412A	GC10F-337-58	04/13/2012 01:54:43	2.34	8.82
55	A1248 500 PPB	CS480412A	GC10F-337-59	04/13/2012 02:07:18	2.34	8.83
56	A1254 500 PPB	CS540412A	GC10F-337-60	04/13/2012 02:19:53	2.35	8.83
57	A1260 500 PPB	CS600412A	GC10F-337-61	04/13/2012 02:32:27	2.34	8.83
58	A1262 500 PPB	CS620412A	GC10F-337-62	04/13/2012 02:45:02	2.34	8.82
59	A1268 500 PPB	CS680412A	GC10F-337-63	04/13/2012 02:57:37	2.34	8.83
60	SURR IUPAC 15 70 PPB	120412FS01	GC10F-337-64	04/13/2012 03:10:11	2.34	8.82
61	A1221 500 PPB	CS210424A	GC10F-345-29	04/24/2012 16:44:42	2.35	8.82
62	PBLK-51(METHOD BLANK)	AP04915B	GC10F-345-31	04/24/2012 17:09:50	2.35	8.83
63	LCS-51(LAB CONTROL SPIKE)	AP04915L	GC10F-345-32	04/24/2012 17:22:23	2.35	8.82
64	LCSD-51(LAB CONTROL SPIKE DUPLIC	AP04915S	GC10F-345-33	04/24/2012 17:34:57	2.35	8.83
65	VAPOR INLET	AP04915	GC10F-345-34	04/24/2012 17:47:31	2.35	8.83
66	VAPOR DISCHARGE	AP04916	GC10F-345-35	04/24/2012 18:00:06	2.35	8.82
67	A1232 500 PPB	CS320424A	GC10F-345-36	04/24/2012 18:12:40	2.35	8.83

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

8

INITIAL CALIBRATION DATA (GC10F)

9

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040231
ELAP ID No: 11078
Date(s) Analyzed: 04/12/12,04/13/12
Instrument ID: GC10F
GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC10F-337-3	041216A	20.0	51.293		
	GC10F-337-4	041216B	100	46.904		
	GC10F-337-5	041216C	250	45.273		
	GC10F-337-6	041216D	500	44.290		
	GC10F-337-7	041216E	1000	42.016	45.955	7.5
Aroclor 1221	GC10F-337-8	041221A	20.0	13.190		
	GC10F-337-9	041221B	100	13.105		
	GC10F-337-10	041221C	250	13.154		
	GC10F-337-11	041221D	500	12.201		
	GC10F-337-12	041221E	1000	12.582	12.846	3.4
Aroclor 1232	GC10F-337-13	041232A	20.0	25.792		
	GC10F-337-14	041232B	100	24.291		
	GC10F-337-15	041232C	250	22.617		
	GC10F-337-16	041232D	500	22.247		
	GC10F-337-17	041232E	1000	21.213	23.232	7.8
Aroclor 1242	GC10F-337-18	041242A	20.0	46.040		
	GC10F-337-19	041242B	100	42.939		
	GC10F-337-20	041242C	250	40.247		
	GC10F-337-21	041242D	500	39.554		
	GC10F-337-22	041242E	1000	37.926	41.341	7.7
Aroclor 1248	GC10F-337-23	041248A	20.0	44.773		
	GC10F-337-24	041248B	100	41.994		
	GC10F-337-25	041248C	250	40.421		
	GC10F-337-26	041248D	500	39.009		
	GC10F-337-27	041248E	1000	37.613	40.762	6.8
Aroclor 1254	GC10F-337-28	041254A	20.0	61.091		
	GC10F-337-29	041254B	100	61.774		
	GC10F-337-30	041254C	250	60.152		
	GC10F-337-31	041254D	500	58.608		
	GC10F-337-32	041254E	1000	55.732	59.471	4.0
Aroclor 1260	GC10F-337-33	041260A	20.0	89.520		
	GC10F-337-34	041260B	100	82.911		
	GC10F-337-35	041260C	250	80.021		
	GC10F-337-36	041260D	500	75.814		
	GC10F-337-37	041260E	1000	74.019	80.457	7.6
Aroclor 1262	GC10F-337-38	041262A	20.0	95.653		
	GC10F-337-39	041262B	100	86.985		
	GC10F-337-40	041262C	250	85.076		
	GC10F-337-41	041262D	500	78.128		
	GC10F-337-42	041262E	1000	72.550	83.679	11

FORM VI-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040231
ELAP ID No: 11078
Date(s) Analyzed: 04/12/12,04/13/12
Instrument ID: GC10F
GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC10F-337-43	041268A	20.0	166.928		
	GC10F-337-44	041268B	100	151.177		
	GC10F-337-45	041268C	250	140.940		
	GC10F-337-46	041268D	500	136.910		
	GC10F-337-47	041268E	1000	128.238	144.839	10
TCMX	GC10F-337-28	041254A	2.00	254.403		
	GC10F-337-29	041254B	5.00	237.666		
	GC10F-337-30	041254C	8.00	241.704		
	GC10F-337-31	041254D	10.0	244.860		
	GC10F-337-32	041254E	20.0	237.320	243.191	2.9
DCBP	GC10F-337-28	041254A	20.0	231.206		
	GC10F-337-29	041254B	50.0	211.132		
	GC10F-337-30	041254C	80.0	204.874		
	GC10F-337-31	041254D	100	203.870		
	GC10F-337-32	041254E	200	189.591	208.135	7.3

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

9

INITIAL/CONTINUING CALIBRATION DATA (GC10F)

10

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12040231

ELAP ID No: 11078

Instrument ID: GC10F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC10F-337-55	CS160412A	ICV	505	500	0.995		04/13/2012 01:16:59
Aroclor 1221	GC10F-337-56	CS210412A	ICV	521	500	4.19		04/13/2012 01:29:33
Aroclor 1232	GC10F-337-57	CS320412A	ICV	507	500	1.32		04/13/2012 01:42:08
Aroclor 1242	GC10F-337-58	CS420412A	ICV	467	500	-6.51		04/13/2012 01:54:43
Aroclor 1248	GC10F-337-59	CS480412A	ICV	492	500	-1.69		04/13/2012 02:07:18
Aroclor 1254	GC10F-337-60	CS540412A	ICV	524	500	4.78		04/13/2012 02:19:53
Aroclor 1260	GC10F-337-61	CS600412A	ICV	496	500	-0.725		04/13/2012 02:32:27
Aroclor 1262	GC10F-337-62	CS620412A	ICV	505	500	0.972		04/13/2012 02:45:02
Aroclor 1268	GC10F-337-63	CS680412A	ICV	514	500	2.77		04/13/2012 02:57:37
Aroclor 1221	GC10F-345-29	CS210424A	CCV	516	500	3.29		04/24/2012 16:44:42
Aroclor 1232	GC10F-345-36	CS320424A	CCV	490	500	-2.04		04/24/2012 18:12:40

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

10

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040231
ELAP ID No: 11078
Instrument ID: GC10F
GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC10F-337-55	CS160412A	ICV	1	3.20	3.12	3.28
		CS160412A	ICV	2	3.41	3.33	3.49
		CS160412A	ICV	3	3.73	3.65	3.81
		CS160412A	ICV	4	3.84	3.76	3.92
		CS160412A	ICV	5	3.91	3.83	3.99
Aroclor 1221	GC10F-337-56	CS210412A	ICV	1	1.67	1.59	1.75
		CS210412A	ICV	2	2.27	2.19	2.35
		CS210412A	ICV	3	2.55	2.47	2.63
		CS210412A	ICV	4	2.66	2.58	2.74
		CS210412A	ICV	5	2.72	2.64	2.80
Aroclor 1232	GC10F-337-57	CS320412A	ICV	1	2.72	2.64	2.80
		CS320412A	ICV	2	3.41	3.33	3.49
		CS320412A	ICV	3	3.74	3.66	3.82
		CS320412A	ICV	4	3.84	3.76	3.92
		CS320412A	ICV	5	3.91	3.83	3.99
Aroclor 1242	GC10F-337-58	CS420412A	ICV	1	3.20	3.12	3.28
		CS420412A	ICV	2	3.41	3.33	3.49
		CS420412A	ICV	3	3.74	3.66	3.82
		CS420412A	ICV	4	3.84	3.76	3.92
		CS420412A	ICV	5	3.91	3.83	3.99
Aroclor 1248	GC10F-337-59	CS480412A	ICV	1	4.20	4.12	4.28
		CS480412A	ICV	2	4.50	4.42	4.58
		CS480412A	ICV	3	4.79	4.71	4.87
		CS480412A	ICV	4	4.86	4.78	4.94
		CS480412A	ICV	5	5.03	4.95	5.11
Aroclor 1254	GC10F-337-60	CS540412A	ICV	1	5.16	5.08	5.24
		CS540412A	ICV	2	5.42	5.34	5.50
		CS540412A	ICV	3	5.53	5.45	5.61
		CS540412A	ICV	4	6.09	6.01	6.17
		CS540412A	ICV	5	6.38	6.30	6.46
Aroclor 1260	GC10F-337-61	CS600412A	ICV	1	6.38	6.30	6.46
		CS600412A	ICV	2	7.14	7.06	7.22
		CS600412A	ICV	3	7.41	7.33	7.49
		CS600412A	ICV	4	7.61	7.53	7.69
		CS600412A	ICV	5	8.11	8.03	8.19
Aroclor 1262	GC10F-337-62	CS620412A	ICV	1	6.38	6.30	6.46
		CS620412A	ICV	2	7.13	7.05	7.21
		CS620412A	ICV	3	7.40	7.32	7.48

FORM VII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040231
ELAP ID No: 11078
Instrument ID: GC10F
GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620412A	ICV	4	7.61	7.53	7.69
		CS620412A	ICV	5	8.10	8.02	8.18
Aroclor 1268	GC10F-337-63	CS680412A	ICV	1	7.61	7.53	7.69
		CS680412A	ICV	2	8.10	8.02	8.18
		CS680412A	ICV	3	7.55	7.47	7.63
		CS680412A	ICV	4	7.92	7.84	8.00
		CS680412A	ICV	5	7.99	7.91	8.07

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

10

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040231
ELAP ID No: 11078
Instrument ID: GC10F
GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1221	GC10F-345-29	CS210424A	CCV	1	1.67	1.59	1.75
		CS210424A	CCV	2	2.27	2.19	2.35
		CS210424A	CCV	3	2.55	2.47	2.63
		CS210424A	CCV	4	2.66	2.58	2.74
		CS210424A	CCV	5	2.72	2.64	2.80
Aroclor 1232	GC10F-345-36	CS320424A	CCV	1	2.72	2.64	2.80
		CS320424A	CCV	2	3.41	3.33	3.49
		CS320424A	CCV	3	3.74	3.66	3.82
		CS320424A	CCV	4	3.85	3.76	3.92
		CS320424A	CCV	5	3.91	3.83	3.99

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

10

ANALYTICAL SEQUENCE (GC10B)

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040231

ELAP ID No: 11078

Instrument ID: GC10B Init. Calib. Date(s): 04/12/12,04/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 3.02 DCBP RT: 9.05

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	041216A	GC10B-308-3	04/12/2012 14:23:13		
02	A1016 100 PPB	041216B	GC10B-308-4	04/12/2012 14:35:48		
03	A1016 250 PPB	041216C	GC10B-308-5	04/12/2012 14:48:22		
04	A1016 500 PPB	041216D	GC10B-308-6	04/12/2012 15:00:57		
05	A1016 1000 PPB	041216E	GC10B-308-7	04/12/2012 15:13:32		
06	A1221 20 PPB	041221A	GC10B-308-8	04/12/2012 15:26:07		
07	A1221 100 PPB	041221B	GC10B-308-9	04/12/2012 15:38:42		
08	A1221 250 PPB	041221C	GC10B-308-10	04/12/2012 15:51:16		
09	A1221 500 PPB	041221D	GC10B-308-11	04/12/2012 16:03:50		
10	A1221 1000 PPB	041221E	GC10B-308-12	04/12/2012 16:16:25		
11	A1232 20 PPB	041232A	GC10B-308-13	04/12/2012 16:29:00		
12	A1232 100 PPB	041232B	GC10B-308-14	04/12/2012 16:41:34		
13	A1232 250 PPB	041232C	GC10B-308-15	04/12/2012 16:54:09		
14	A1232 500 PPB	041232D	GC10B-308-16	04/12/2012 17:06:43		
15	A1232 1000 PPB	041232E	GC10B-308-17	04/12/2012 17:19:18		
16	A1242 20 PPB	041242A	GC10B-308-18	04/12/2012 17:31:53		
17	A1242 100 PPB	041242B	GC10B-308-19	04/12/2012 17:44:27		
18	A1242 250 PPB	041242C	GC10B-308-20	04/12/2012 17:57:01		
19	A1242 500 PPB	041242D	GC10B-308-21	04/12/2012 18:09:36		
20	A1242 1000 PPB	041242E	GC10B-308-22	04/12/2012 18:22:10		
21	A1248 20 PPB	041248A	GC10B-308-23	04/12/2012 18:34:45		
22	A1248 100 PPB	041248B	GC10B-308-24	04/12/2012 18:47:18		
23	A1248 250 PPB	041248C	GC10B-308-25	04/12/2012 18:59:52		
24	A1248 500 PPB	041248D	GC10B-308-26	04/12/2012 19:12:27		
25	A1248 1000 PPB	041248E	GC10B-308-27	04/12/2012 19:25:02		
26	A1254 20 PPB	041254A	GC10B-308-28	04/12/2012 19:37:36	3.01	9.05
27	A1254 100 PPB	041254B	GC10B-308-29	04/12/2012 19:50:09	3.01	9.05
28	A1254 250 PPB	041254C	GC10B-308-30	04/12/2012 20:02:43	3.02	9.05
29	A1254 500 PPB	041254D	GC10B-308-31	04/12/2012 20:15:18	3.02	9.05
30	A1254 1000 PPB	041254E	GC10B-308-32	04/12/2012 20:27:52	3.02	9.05
31	A1260 20 PPB	041260A	GC10B-308-33	04/12/2012 20:40:26		
32	A1260 100 PPB	041260B	GC10B-308-34	04/12/2012 20:53:00		
33	A1260 250 PPB	041260C	GC10B-308-35	04/12/2012 21:05:35		
34	A1260 500 PPB	041260D	GC10B-308-36	04/12/2012 21:18:10		
35	A1260 1000 PPB	041260E	GC10B-308-37	04/12/2012 21:30:44		
36	A1262 20 PPB	041262A	GC10B-308-38	04/12/2012 21:43:18		
37	A1262 100 PPB	041262B	GC10B-308-39	04/12/2012 21:55:52		
38	A1262 250 PPB	041262C	GC10B-308-40	04/12/2012 22:08:26		

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: Pace Analytical Services, Inc. SDG No: 12040231

ELAP ID No: 11078

Instrument ID: GC10B Init. Calib. Date(s): 04/12/12,04/13/12

GC Column (1): Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 3.02 DCBP RT: 9.05

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	041262D	GC10B-308-41	04/12/2012 22:21:01		
40	A1262 1000 PPB	041262E	GC10B-308-42	04/12/2012 22:33:35		
41	A1268 20 PPB	041268A	GC10B-308-43	04/12/2012 22:46:10		
42	A1268 100 PPB	041268B	GC10B-308-44	04/12/2012 22:58:44		
43	A1268 250 PPB	041268C	GC10B-308-45	04/12/2012 23:11:18		
44	A1268 500 PPB	041268D	GC10B-308-46	04/12/2012 23:23:52		
45	A1268 1000 PPB	041268E	GC10B-308-47	04/12/2012 23:36:26		
46	IUPAC 15 20 PPB	0412FSA	GC10B-308-49	04/13/2012 00:01:35		
47	IUPAC 15 50 PPB	0412FSB	GC10B-308-50	04/13/2012 00:14:10		
48	IUPAC 15 80 PPB	0412FSC	GC10B-308-51	04/13/2012 00:26:44		
49	IUPAC 15 100 PPB	0412FSD	GC10B-308-52	04/13/2012 00:39:19		
50	IUPAC 15 200 PPB	0412FSE	GC10B-308-53	04/13/2012 00:51:54		
51	A1016 500 PPB	CS160412A	GC10B-308-55	04/13/2012 01:17:03	3.02	9.05
52	A1221 500 PPB	CS210412A	GC10B-308-56	04/13/2012 01:29:37	3.02	9.05
53	A1232 500 PPB	CS320412A	GC10B-308-57	04/13/2012 01:42:12	3.02	9.05
54	A1242 500 PPB	CS420412A	GC10B-308-58	04/13/2012 01:54:47	3.02	9.05
55	A1248 500 PPB	CS480412A	GC10B-308-59	04/13/2012 02:07:22	3.02	9.06
56	A1254 500 PPB	CS540412A	GC10B-308-60	04/13/2012 02:19:57	3.02	9.05
57	A1260 500 PPB	CS600412A	GC10B-308-61	04/13/2012 02:32:31	3.02	9.06
58	A1262 500 PPB	CS620412A	GC10B-308-62	04/13/2012 02:45:06	3.02	9.05
59	A1268 500 PPB	CS680412A	GC10B-308-63	04/13/2012 02:57:41	3.02	9.05
60	SURR IUPAC 15 70 PPB	120412FS01	GC10B-308-64	04/13/2012 03:10:15	3.02	9.05
61	A1221 500 PPB	CS210424A	GC10B-316-29	04/24/2012 16:44:46	3.02	9.05
62	PBLK-51(METHOD BLANK)	AP04915B	GC10B-316-31	04/24/2012 17:09:54	3.02	9.05
63	LCS-51(LAB CONTROL SPIKE)	AP04915L	GC10B-316-32	04/24/2012 17:22:27	3.01	9.05
64	LCSD-51(LAB CONTROL SPIKE DUPLIC	AP04915S	GC10B-316-33	04/24/2012 17:35:01	3.02	9.06
65	VAPOR INLET	AP04915	GC10B-316-34	04/24/2012 17:47:35	3.02	9.06
66	VAPOR DISCHARGE	AP04916	GC10B-316-35	04/24/2012 18:00:10	3.02	9.05
67	A1232 500 PPB	CS320424A	GC10B-316-36	04/24/2012 18:12:44	3.02	9.06

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

INITIAL CALIBRATION DATA (GC10B)

12

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040231
ELAP ID No: 11078
Date(s) Analyzed: 04/12/12,04/13/12
Instrument ID: GC10B
GC Column: Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC10B-308-3	041216A	20.0	33.478		
	GC10B-308-4	041216B	100	29.439		
	GC10B-308-5	041216C	250	29.202		
	GC10B-308-6	041216D	500	28.917		
	GC10B-308-7	041216E	1000	27.815	29.770	7.3
Aroclor 1221	GC10B-308-8	041221A	20.0	8.836		
	GC10B-308-9	041221B	100	8.574		
	GC10B-308-10	041221C	250	8.477		
	GC10B-308-11	041221D	500	8.136		
	GC10B-308-12	041221E	1000	8.091	8.423	3.7
Aroclor 1232	GC10B-308-13	041232A	20.0	16.049		
	GC10B-308-14	041232B	100	14.014		
	GC10B-308-15	041232C	250	14.203		
	GC10B-308-16	041232D	500	14.155		
	GC10B-308-17	041232E	1000	13.313	14.347	7.1
Aroclor 1242	GC10B-308-18	041242A	20.0	27.892		
	GC10B-308-19	041242B	100	25.610		
	GC10B-308-20	041242C	250	25.900		
	GC10B-308-21	041242D	500	25.288		
	GC10B-308-22	041242E	1000	24.230	25.784	5.2
Aroclor 1248	GC10B-308-23	041248A	20.0	28.473		
	GC10B-308-24	041248B	100	26.843		
	GC10B-308-25	041248C	250	25.832		
	GC10B-308-26	041248D	500	25.877		
	GC10B-308-27	041248E	1000	25.044	26.414	5.0
Aroclor 1254	GC10B-308-28	041254A	20.0	38.363		
	GC10B-308-29	041254B	100	39.967		
	GC10B-308-30	041254C	250	37.678		
	GC10B-308-31	041254D	500	37.111		
	GC10B-308-32	041254E	1000	35.844	37.793	4.0
Aroclor 1260	GC10B-308-33	041260A	20.0	52.844		
	GC10B-308-34	041260B	100	47.213		
	GC10B-308-35	041260C	250	46.304		
	GC10B-308-36	041260D	500	45.070		
	GC10B-308-37	041260E	1000	42.543	46.795	8.1
Aroclor 1262	GC10B-308-38	041262A	20.0	47.676		
	GC10B-308-39	041262B	100	49.042		
	GC10B-308-40	041262C	250	47.099		
	GC10B-308-41	041262D	500	46.569		
	GC10B-308-42	041262E	1000	44.487	46.975	3.6

FORM VI-CLP-PCB(PACE)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.
SDG NO: 12040231
ELAP ID No: 11078
Date(s) Analyzed: 04/12/12,04/13/12
Instrument ID: GC10B
GC Column: Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC10B-308-43	041268A	20.0	88.579		
	GC10B-308-44	041268B	100	84.276		
	GC10B-308-45	041268C	250	80.217		
	GC10B-308-46	041268D	500	77.774		
	GC10B-308-47	041268E	1000	74.353	81.040	6.9
TCMX	GC10B-308-28	041254A	2.00	200.079		
	GC10B-308-29	041254B	5.00	200.114		
	GC10B-308-30	041254C	8.00	194.085		
	GC10B-308-31	041254D	10.0	198.570		
	GC10B-308-32	041254E	20.0	192.591	197.088	1.8
DCBP	GC10B-308-28	041254A	20.0	135.895		
	GC10B-308-29	041254B	50.0	128.257		
	GC10B-308-30	041254C	80.0	124.153		
	GC10B-308-31	041254D	100	124.176		
	GC10B-308-32	041254E	200	117.468	125.990	5.4

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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INITIAL/CONTINUING CALIBRATION DATA (GC10B)

13

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc. SDG NO: 12040231

ELAP ID No: 11078

Instrument ID: GC10B

GC Column: Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC10B-308-55	CS160412A	ICV	523	500	4.58		04/13/2012 01:17:03
Aroclor 1221	GC10B-308-56	CS210412A	ICV	519	500	3.78		04/13/2012 01:29:37
Aroclor 1232	GC10B-308-57	CS320412A	ICV	516	500	3.15		04/13/2012 01:42:12
Aroclor 1242	GC10B-308-58	CS420412A	ICV	480	500	-4.00		04/13/2012 01:54:47
Aroclor 1248	GC10B-308-59	CS480412A	ICV	492	500	-1.63		04/13/2012 02:07:22
Aroclor 1254	GC10B-308-60	CS540412A	ICV	542	500	8.34		04/13/2012 02:19:57
Aroclor 1260	GC10B-308-61	CS600412A	ICV	505	500	0.970		04/13/2012 02:32:31
Aroclor 1262	GC10B-308-62	CS620412A	ICV	506	500	1.16		04/13/2012 02:45:06
Aroclor 1268	GC10B-308-63	CS680412A	ICV	509	500	1.71		04/13/2012 02:57:41
Aroclor 1221	GC10B-316-29	CS210424A	CCV	494	500	-1.28		04/24/2012 16:44:46
Aroclor 1232	GC10B-316-36	CS320424A	CCV	480	500	-4.02		04/24/2012 18:12:44

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040231
ELAP ID No: 11078
Instrument ID: GC10B
GC Column: Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC10B-308-55	CS160412A	ICV	1	3.74	3.66	3.82
		CS160412A	ICV	2	3.93	3.85	4.01
		CS160412A	ICV	3	4.20	4.12	4.28
		CS160412A	ICV	4	4.30	4.22	4.38
		CS160412A	ICV	5	4.37	4.29	4.45
Aroclor 1221	GC10B-308-56	CS210412A	ICV	1	2.54	2.46	2.62
		CS210412A	ICV	2	3.00	2.92	3.08
		CS210412A	ICV	3	3.20	3.12	3.28
		CS210412A	ICV	4	3.29	3.21	3.37
		CS210412A	ICV	5	3.35	3.27	3.43
Aroclor 1232	GC10B-308-57	CS320412A	ICV	1	3.35	3.27	3.43
		CS320412A	ICV	2	3.93	3.85	4.01
		CS320412A	ICV	3	4.20	4.12	4.28
		CS320412A	ICV	4	4.30	4.22	4.38
		CS320412A	ICV	5	4.38	4.30	4.46
Aroclor 1242	GC10B-308-58	CS420412A	ICV	1	3.74	3.66	3.82
		CS420412A	ICV	2	3.93	3.85	4.01
		CS420412A	ICV	3	4.20	4.12	4.28
		CS420412A	ICV	4	4.30	4.22	4.38
		CS420412A	ICV	5	4.37	4.29	4.45
Aroclor 1248	GC10B-308-59	CS480412A	ICV	1	4.60	4.52	4.68
		CS480412A	ICV	2	4.90	4.82	4.98
		CS480412A	ICV	3	5.14	5.06	5.22
		CS480412A	ICV	4	5.22	5.14	5.30
		CS480412A	ICV	5	5.40	5.32	5.48
Aroclor 1254	GC10B-308-60	CS540412A	ICV	1	5.47	5.39	5.55
		CS540412A	ICV	2	5.75	5.67	5.83
		CS540412A	ICV	3	5.86	5.78	5.94
		CS540412A	ICV	4	6.38	6.30	6.46
		CS540412A	ICV	5	6.67	6.59	6.75
Aroclor 1260	GC10B-308-61	CS600412A	ICV	1	6.67	6.59	6.75
		CS600412A	ICV	2	7.39	7.31	7.47
		CS600412A	ICV	3	7.70	7.62	7.78
		CS600412A	ICV	4	7.85	7.77	7.93
		CS600412A	ICV	5	8.36	8.28	8.44
Aroclor 1262	GC10B-308-62	CS620412A	ICV	1	6.67	6.59	6.75
		CS620412A	ICV	2	7.39	7.31	7.47
		CS620412A	ICV	3	7.69	7.61	7.77

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FORM VII-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040231
ELAP ID No: 11078
Instrument ID: GC10B
GC Column: Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620412A	ICV	4	7.84	7.76	7.92
		CS620412A	ICV	5	8.35	8.27	8.43
Aroclor 1268	GC10B-308-63	CS680412A	ICV	1	7.84	7.76	7.92
		CS680412A	ICV	2	8.36	8.28	8.44
		CS680412A	ICV	3	7.79	7.71	7.87
		CS680412A	ICV	4	8.14	8.06	8.22
		CS680412A	ICV	5	8.22	8.14	8.30

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

13

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.
SGD NO: 12040231
ELAP ID No: 11078
Instrument ID: GC10B
GC Column: Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1221	GC10B-316-29	CS210424A	CCV	1	2.54	2.46	2.62
		CS210424A	CCV	2	3.00	2.92	3.08
		CS210424A	CCV	3	3.20	3.12	3.28
		CS210424A	CCV	4	3.29	3.21	3.37
		CS210424A	CCV	5	3.35	3.27	3.43
Aroclor 1232	GC10B-316-36	CS320424A	CCV	1	3.35	3.27	3.43
		CS320424A	CCV	2	3.93	3.85	4.01
		CS320424A	CCV	3	4.20	4.12	4.28
		CS320424A	CCV	4	4.30	4.22	4.38
		CS320424A	CCV	5	4.38	4.30	4.46

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

13

QC SAMPLE RAW DATA

14

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	LRF ID:	PBLK-51
Matrix:	Polyurethane Foam	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04915B
Percent Moisture:	N/A	Lab File ID:	GC10F-345-31
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/24/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	LRF ID:	PBLK-51
Matrix:	Polyurethane Foam	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04915B
Percent Moisture:	N/A	Lab File ID:	GC10B-316-31
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/24/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	0.100	U
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	LRF ID:	LCS-51
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04915L
Percent Moisture:	N/A	Lab File ID:	GC10F-345-32
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/24/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	1.04	
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	LRF ID:	LCS-51
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04915L
Percent Moisture:	N/A	Lab File ID:	GC10B-316-32
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/24/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	1.02	
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	Client ID:	LCS-51(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-51	Lab Sample ID:	AP04915L
Instrument 1 ID:	GC10F	Instrument 2 ID:	GC10B
Date Analyzed:	04/24/2012 5:22:23 PM	Date Analyzed:	04/24/2012 5:22:27 PM
GC Column 1:	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Lab File ID 1:	GC10F-345-32	Lab File ID 2:	GC10B-316-32
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	3.12	3.28			
		2	NA	3.33	3.49			
		3	NA	3.65	3.81			
		4	NA	3.76	3.92			
		5	NA	3.83	3.99			
	2	1	NA	3.66	3.82			
		2	NA	3.85	4.01			
		3	NA	4.12	4.28			
		4	NA	4.22	4.38			
		5	NA	4.29	4.45			
Aroclor 1221	1	1	NA	1.59	1.75			
		2	NA	2.19	2.35			
		3	NA	2.47	2.63			
		4	NA	2.58	2.74			
		5	NA	2.64	2.80			
	2	1	NA	2.46	2.62			
		2	NA	2.92	3.08			
		3	NA	3.12	3.28			
		4	NA	3.21	3.37			
		5	NA	3.27	3.43			
Aroclor 1232	1	1	NA	2.64	2.80			
		2	NA	3.33	3.49			
		3	NA	3.66	3.82			
		4	NA	3.76	3.92			
		5	NA	3.83	3.99			
	2	1	NA	3.27	3.43			
		2	NA	3.85	4.01			
		3	NA	4.12	4.28			
		4	NA	4.22	4.38			
		5	NA	4.30	4.46			
Aroclor 1242	1	1	NA	3.12	3.28			
		2	NA	3.33	3.49			
		3	NA	3.66	3.82			
		4	NA	3.76	3.92			
		5	NA	3.83	3.99			
	2	1	NA	3.66	3.82			
		2	NA	3.85	4.01			
		3	NA	4.12	4.28			
		4	NA	4.22	4.38			
		5	NA	4.29	4.45			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	Client ID:	LCS-51(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-51	Lab Sample ID:	AP04915L
Instrument 1 ID:	GC10F	Instrument 2 ID:	GC10B
Date Analyzed:	04/24/2012 5:22:23 PM	Date Analyzed:	04/24/2012 5:22:27 PM
GC Column 1:	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Lab File ID 1:	GC10F-345-32	Lab File ID 2:	GC10B-316-32
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	4.12	4.28			
		2	NA	4.42	4.58			
		3	NA	4.71	4.87			
		4	NA	4.78	4.94			
		5	NA	4.95	5.11			
	2	1	NA	4.52	4.68			
		2	NA	4.82	4.98			
		3	NA	5.06	5.22			
		4	NA	5.14	5.30			
		5	NA	5.32	5.48			
Aroclor 1254	1	1	5.16	5.08	5.24			
		2	5.42	5.34	5.50			
		3	5.53	5.45	5.61			
		4	6.08	6.01	6.17			
		5	6.38	6.30	6.46	1.04		
	2	1	5.47	5.39	5.55			
		2	5.75	5.67	5.83			
		3	5.86	5.78	5.94			
		4	6.37	6.30	6.46			
		5	6.67	6.59	6.75	1.02	1.94	
Aroclor 1260	1	1	6.38	6.30	6.46			
		2	NA	7.06	7.22			
		3	NA	7.33	7.49			
		4	NA	7.53	7.69			
		5	NA	8.03	8.19			
	2	1	6.67	6.59	6.75			
		2	NA	7.31	7.47			
		3	NA	7.62	7.78			
		4	NA	7.77	7.93			
		5	NA	8.28	8.44			

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Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	LRF ID:	LCSD-51
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE DUPLICATE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04915S
Percent Moisture:	N/A	Lab File ID:	GC10F-345-33
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/24/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	1.03	
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	LRF ID:	LCSD-51
Matrix:	Polyurethane Foam	Client ID:	LAB CONTROL SPIKE DUPLICATE
Sample wt(Dry)/vol:	N/A	Lab Sample ID:	AP04915S
Percent Moisture:	N/A	Lab File ID:	GC10B-316-33
Extraction:	Soxhlet Method (3540C)	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	04/23/2012
Injection Volume:	1.0 uL	Date Analyzed:	04/24/2012
Method:	EPA Method TO-10A/EPA 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG	Q
12674-11-2	Aroclor 1016	0.100	U
11104-28-2	Aroclor 1221	0.100	U
11141-16-5	Aroclor 1232	0.100	U
53469-21-9	Aroclor 1242	0.100	U
12672-29-6	Aroclor 1248	0.100	U
11097-69-1	Aroclor 1254	1.01	
11096-82-5	Aroclor 1260	0.100	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

14

FORM I-CLP-PCB

Print Date: 4/30/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	Client ID:	LCSD-51(LAB CONTROL SPIKE DUPLICATE)
LRF Sample ID:	LCSD-51	Lab Sample ID:	AP04915S
Instrument 1 ID:	GC10F	Instrument 2 ID:	GC10B
Date Analyzed:	04/24/2012 5:34:57 PM	Date Analyzed:	04/24/2012 5:35:01 PM
GC Column 1:	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Lab File ID 1:	GC10F-345-33	Lab File ID 2:	GC10B-316-33
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	3.12	3.28			
		2	NA	3.33	3.49			
		3	NA	3.65	3.81			
		4	NA	3.76	3.92			
		5	NA	3.83	3.99			
	2	1	NA	3.66	3.82			
		2	NA	3.85	4.01			
		3	NA	4.12	4.28			
		4	NA	4.22	4.38			
		5	NA	4.29	4.45			
Aroclor 1221	1	1	NA	1.59	1.75			
		2	NA	2.19	2.35			
		3	NA	2.47	2.63			
		4	NA	2.58	2.74			
		5	NA	2.64	2.80			
	2	1	NA	2.46	2.62			
		2	NA	2.92	3.08			
		3	NA	3.12	3.28			
		4	NA	3.21	3.37			
		5	NA	3.27	3.43			
Aroclor 1232	1	1	NA	2.64	2.80			
		2	NA	3.33	3.49			
		3	NA	3.66	3.82			
		4	NA	3.76	3.92			
		5	NA	3.83	3.99			
	2	1	NA	3.27	3.43			
		2	NA	3.85	4.01			
		3	NA	4.12	4.28			
		4	NA	4.22	4.38			
		5	NA	4.30	4.46			
Aroclor 1242	1	1	NA	3.12	3.28			
		2	NA	3.33	3.49			
		3	NA	3.66	3.82			
		4	NA	3.76	3.92			
		5	NA	3.83	3.99			
	2	1	NA	3.66	3.82			
		2	NA	3.85	4.01			
		3	NA	4.12	4.28			
		4	NA	4.22	4.38			
		5	NA	4.29	4.45			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

10-B
PCB Identification Summary

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12040231
ELAP ID No:	11078	Client ID:	LCSD-51(LAB CONTROL SPIKE DUPLICATE)
LRF Sample ID:	LCSD-51	Lab Sample ID:	AP04915S
Instrument 1 ID:	GC10F	Instrument 2 ID:	GC10B
Date Analyzed:	04/24/2012 5:34:57 PM	Date Analyzed:	04/24/2012 5:35:01 PM
GC Column 1:	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Lab File ID 1:	GC10F-345-33	Lab File ID 2:	GC10B-316-33
Matrix:	Polyurethane Foam		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	4.12	4.28			
		2	NA	4.42	4.58			
		3	NA	4.71	4.87			
		4	NA	4.78	4.94			
		5	NA	4.95	5.11			
	2	1	NA	4.52	4.68			
		2	NA	4.82	4.98			
		3	NA	5.06	5.22			
		4	NA	5.14	5.30			
		5	NA	5.32	5.48			
Aroclor 1254	1	1	5.16	5.08	5.24			
		2	5.42	5.34	5.50			
		3	5.53	5.45	5.61			
		4	6.09	6.01	6.17			
		5	6.38	6.30	6.46	1.03		
	2	1	5.47	5.39	5.55			
		2	5.76	5.67	5.83			
		3	5.86	5.78	5.94			
		4	6.38	6.30	6.46			
		5	6.67	6.59	6.75	1.01	1.96	
Aroclor 1260	1	1	6.38	6.30	6.46			
		2	NA	7.06	7.22			
		3	NA	7.33	7.49			
		4	NA	7.53	7.69			
		5	NA	8.03	8.19			
	2	1	6.67	6.59	6.75			
		2	NA	7.31	7.47			
		3	NA	7.62	7.78			
		4	NA	7.77	7.93			
		5	NA	8.28	8.44			

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Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(PACE)

Print Date: 4/30/2012
Lims Version : 5.0.6.5

ANALYTICAL REPORT

Lab Number:	L1205186
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	04/04/12

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Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1205186-01	INFLUENT	NEW BEDFORD	03/27/12 11:35
L1205186-02	MID CARBON	NEW BEDFORD	03/27/12 11:37
L1205186-03	EFFLUENT	NEW BEDFORD	03/27/12 11:41
L1205186-04	TANK VENT	NEW BEDFORD	03/27/12 11:42

Project Name: NBHS IRA **Lab Number:** L1205186

Project Number: 115058 **Report Date:** 04/04/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

MCP Related Narratives

Canisters were released from the laboratory on 2012.

The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Case Narrative (continued)

In reference to question G:
One or more of the target analytes did not achieve the requested CAM reporting limits.

L1205186-01 The presence of Acetone could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

L1205186-02 and -03 results for Acetone should be considered estimated due to co-elution with a non-target peak.

L1205186-04 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/04/12

AIR

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID: L1205186-01
Client ID: INFLUENT
Sample Location: NEW BEDFORD
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 04/02/12 03:45
Analyst: AR

Date Collected: 03/27/12 11:35
Date Received: 03/28/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
trans-1,2-Dichloroethene	1.33	0.200	--	5.27	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.51	0.200	--	4.45	0.590	--		1
cis-1,2-Dichloroethene	3.38	0.200	--	13.4	0.793	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.468	0.200	--	1.50	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	11.6	0.200	--	62.3	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.30	0.200	--	8.67	0.754	--		1

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205186
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID: L1205186-01
Client ID: INFLUENT
Sample Location: NEW BEDFORD
Date Collected: 03/27/12 11:35
Date Received: 03/28/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.334	0.200	--	1.45	0.869	--		1
p/m-Xylene	0.890	0.400	--	3.86	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.315	0.200	--	1.37	0.869	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	85		60-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID: L1205186-02
Client ID: MID CARBON
Sample Location: NEW BEDFORD
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 04/02/12 04:21
Analyst: AR

Date Collected: 03/27/12 11:37
Date Received: 03/28/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Vinyl chloride	0.287	0.200	--	0.734	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Acetone	4.35	1.00	--	10.3	2.38	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.754	0.200	--	2.22	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.61	0.200	--	5.14	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.506	0.200	--	1.91	0.754	--		1

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205186
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID: L1205186-02
Client ID: MID CARBON
Sample Location: NEW BEDFORD
Date Collected: 03/27/12 11:37
Date Received: 03/28/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	92		60-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID: L1205186-03
Client ID: EFFLUENT
Sample Location: NEW BEDFORD
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 04/02/12 04:58
Analyst: AR

Date Collected: 03/27/12 11:41
Date Received: 03/28/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Vinyl chloride	0.511	0.200	--	1.31	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Acetone	3.61	1.00	--	8.58	2.38	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.32	0.200	--	3.89	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.696	0.200	--	2.62	0.754	--		1

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205186
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID: L1205186-03
Client ID: EFFLUENT
Sample Location: NEW BEDFORD
Date Collected: 03/27/12 11:41
Date Received: 03/28/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.490	0.400	--	2.13	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	88		60-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID: L1205186-04 D
Client ID: TANK VENT
Sample Location: NEW BEDFORD
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 04/02/12 06:48
Analyst: AR

Date Collected: 03/27/12 11:42
Date Received: 03/28/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Vinyl chloride	95.6	9.16	--	244	23.4	--		45.81
Bromomethane	ND	9.16	--	ND	35.6	--		45.81
Acetone	ND	45.8	--	ND	109	--		45.81
1,1-Dichloroethene	ND	9.16	--	ND	36.3	--		45.81
Methylene chloride	ND	64.1	--	ND	223	--		45.81
trans-1,2-Dichloroethene	92.2	9.16	--	366	36.3	--		45.81
1,1-Dichloroethane	ND	9.16	--	ND	37.1	--		45.81
Methyl tert butyl ether	ND	9.16	--	ND	33.0	--		45.81
2-Butanone	ND	9.16	--	ND	27.0	--		45.81
cis-1,2-Dichloroethene	319	9.16	--	1260	36.3	--		45.81
Chloroform	ND	9.16	--	ND	44.7	--		45.81
1,2-Dichloroethane	ND	9.16	--	ND	37.1	--		45.81
1,1,1-Trichloroethane	ND	9.16	--	ND	50.0	--		45.81
Benzene	ND	9.16	--	ND	29.3	--		45.81
Carbon tetrachloride	ND	9.16	--	ND	57.6	--		45.81
1,2-Dichloropropane	ND	9.16	--	ND	42.3	--		45.81
Bromodichloromethane	ND	9.16	--	ND	61.4	--		45.81
1,4-Dioxane	ND	9.16	--	ND	33.0	--		45.81
Trichloroethene	2830	9.16	--	15200	49.2	--		45.81
cis-1,3-Dichloropropene	ND	9.16	--	ND	41.6	--		45.81
4-Methyl-2-pentanone	ND	9.16	--	ND	37.5	--		45.81
trans-1,3-Dichloropropene	ND	9.16	--	ND	41.6	--		45.81
1,1,2-Trichloroethane	ND	9.16	--	ND	50.0	--		45.81
Toluene	ND	9.16	--	ND	34.5	--		45.81

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205186
Report Date: 04/04/12

SAMPLE RESULTS

Lab ID: L1205186-04 D
Client ID: TANK VENT
Sample Location: NEW BEDFORD
Date Collected: 03/27/12 11:42
Date Received: 03/28/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dibromochloromethane	ND	9.16	--	ND	78.0	--		45.81
1,2-Dibromoethane	ND	9.16	--	ND	70.4	--		45.81
Tetrachloroethene	ND	9.16	--	ND	62.1	--		45.81
Chlorobenzene	ND	9.16	--	ND	42.2	--		45.81
Ethylbenzene	ND	9.16	--	ND	39.8	--		45.81
p/m-Xylene	ND	18.3	--	ND	79.5	--		45.81
Bromoform	ND	9.16	--	ND	94.7	--		45.81
Styrene	ND	9.16	--	ND	39.0	--		45.81
1,1,2,2-Tetrachloroethane	ND	9.16	--	ND	62.9	--		45.81
o-Xylene	ND	9.16	--	ND	39.8	--		45.81
1,3-Dichlorobenzene	ND	9.16	--	ND	55.1	--		45.81
1,4-Dichlorobenzene	ND	9.16	--	ND	55.1	--		45.81
1,2-Dichlorobenzene	ND	9.16	--	ND	55.1	--		45.81
1,2,4-Trichlorobenzene	ND	9.16	--	ND	68.0	--		45.81
Naphthalene	ND	9.16	--	ND	48.0	--		45.81
Hexachlorobutadiene	ND	9.16	--	ND	97.7	--		45.81

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	89		60-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/01/12 21:07

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG526381-4								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/01/12 21:07

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG526381-4								
Methylene chloride	ND	1.40	--	ND	4.86	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/01/12 21:07

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG526381-4								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-Trimethyl-1-Pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-Trimethyl-2-Pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/01/12 21:07

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG526381-4								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/01/12 21:07

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG526381-4								
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG526381-3								
Chlorodifluoromethane	80		-		70-130	-		
Propylene	91		-		70-130	-		
Dichlorodifluoromethane	90		-		70-130	-		
Chloromethane	88		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	92		-		70-130	-		
Methanol	74		-		70-130	-		
Vinyl chloride	89		-		70-130	-		
1,3-Butadiene	93		-		70-130	-		
Bromomethane	88		-		70-130	-		
Chloroethane	92		-		70-130	-		
Ethyl Alcohol	106		-		70-130	-		
Dichlorofluoromethane	75		-		70-130	-		
Vinyl bromide	88		-		70-130	-		
Acrolein	79		-		70-130	-		
Acetone	125		-		50-150	-		
Acetonitrile	117		-		70-130	-		
Trichlorofluoromethane	90		-		70-130	-		
iso-Propyl Alcohol	113		-		70-130	-		
Acrylonitrile	114		-		70-130	-		
Pentane	87		-		70-130	-		
Ethyl ether	116		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG526381-3								
1,1-Dichloroethene	91		-		70-130	-		
tert-Butyl Alcohol	105		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	100		-		70-130	-		
Carbon disulfide	87		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		-		70-130	-		
trans-1,2-Dichloroethene	76		-		70-130	-		
1,1-Dichloroethane	85		-		70-130	-		
Methyl tert butyl ether	103		-		70-130	-		
Vinyl acetate	108		-		70-130	-		
2-Butanone	112		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		
Ethyl Acetate	115		-		70-130	-		
Chloroform	95		-		70-130	-		
Tetrahydrofuran	108		-		70-130	-		
2,2-Dichloropropane	79		-		70-130	-		
1,2-Dichloroethane	94		-		70-130	-		
n-Hexane	80		-		70-130	-		
Isopropyl Ether	101		-		70-130	-		
Ethyl-Tert-Butyl-Ether	98		-		70-130	-		
1,1,1-Trichloroethane	83		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG526381-3								
1,1-Dichloropropene	84		-		70-130	-		
Benzene	86		-		70-130	-		
Carbon tetrachloride	82		-		70-130	-		
Cyclohexane	82		-		70-130	-		
Tertiary-Amyl Methyl Ether	97		-		70-130	-		
Dibromomethane	85		-		70-130	-		
1,2-Dichloropropane	95		-		70-130	-		
Bromodichloromethane	89		-		70-130	-		
1,4-Dioxane	100		-		50-150	-		
Trichloroethene	84		-		70-130	-		
2,2,4-Trimethylpentane	89		-		70-130	-		
Heptane	89		-		70-130	-		
2,4,4-Trimethyl-1-Pentene	98		-		70-130	-		
cis-1,3-Dichloropropene	93		-		70-130	-		
4-Methyl-2-pentanone	105		-		70-130	-		
2,4,4-Trimethyl-2-Pentene	104		-		70-130	-		
trans-1,3-Dichloropropene	82		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Toluene	94		-		70-130	-		
1,3-Dichloropropane	98		-		70-130	-		
2-Hexanone	107		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG526381-3								
Dibromochloromethane	87		-		70-130	-		
1,2-Dibromoethane	97		-		70-130	-		
Octane	89		-		70-130	-		
Tetrachloroethene	92		-		70-130	-		
1,1,1,2-Tetrachloroethane	89		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	106		-		70-130	-		
p/m-Xylene	106		-		70-130	-		
Bromoform	88		-		70-130	-		
Styrene	108		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	116		-		70-130	-		
1,2,3-Trichloropropane	104		-		70-130	-		
Nonane (C9)	98		-		70-130	-		
Isopropylbenzene	109		-		70-130	-		
Bromobenzene	102		-		70-130	-		
o-Chlorotoluene	97		-		70-130	-		
n-Propylbenzene	108		-		70-130	-		
p-Chlorotoluene	102		-		70-130	-		
4-Ethyltoluene	107		-		70-130	-		
1,3,5-Trimethylbenzene	114		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG526381-3								
tert-Butylbenzene	111		-		70-130	-		
1,2,4-Trimethylbenzene	119		-		70-130	-		
Decane (C10)	111		-		70-130	-		
Benzyl chloride	98		-		70-130	-		
1,3-Dichlorobenzene	110		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
sec-Butylbenzene	111		-		70-130	-		
p-Isopropyltoluene	105		-		70-130	-		
1,2-Dichlorobenzene	110		-		70-130	-		
n-Butylbenzene	116		-		70-130	-		
1,2-Dibromo-3-chloropropane	104		-		70-130	-		
Undecane	113		-		70-130	-		
Dodecane (C12)	104		-		70-130	-		
1,2,4-Trichlorobenzene	110		-		50-150	-		
Naphthalene	100		-		50-150	-		
1,2,3-Trichlorobenzene	104		-		70-130	-		
Hexachlorobutadiene	102		-		50-150	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG526381-5 QC Sample: L1205414-01 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Acetone	6.72	6.84	ppbV	2		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.226	0.227	ppbV	0		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.216	0.215	ppbV	0		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG526381-5 QC Sample: L1205414-01 Client ID: DUP Sample					
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.661	0.618	ppbV	7	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG526381-5 QC Sample: L1205414-01 Client ID: DUP Sample					
Naphthalene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1205186

Report Date: 04/04/12

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RSD
L1205186-01	INFLUENT	0064	#16 SV	03/15/12	76020		-	-	-	-	144	153	6
L1205186-01	INFLUENT	419	2.7L Can	03/15/12	76020	L1202952	-	-29.2	0.4	-	-	-	-
L1205186-02	MID CARBON	0223	#16 SV	03/15/12	76020		-	-	-	-	144	154	7
L1205186-02	MID CARBON	1750	2.7L Can	03/15/12	76020	L1202952	-	-29.4	-1.2	-	-	-	-
L1205186-03	EFFLUENT	0445	#16 SV	03/15/12	76020		-	-	-	-	143	149	4
L1205186-03	EFFLUENT	352	2.7L Can	03/15/12	76020	L1203248	-	-29.4	-0.5	-	-	-	-
L1205186-04	TANK VENT	0444	#90 SV	03/15/12	76020		-	-	-	-	143	151	5
L1205186-04	TANK VENT	526	2.7L Can	03/15/12	76020	L1202952	-	-29.2	1.1	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1202952

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID:	L1202952-01	Date Collected:	02/20/12 16:30
Client ID:	CAN 204 SHELF 9	Date Received:	02/21/12
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	02/22/12 19:13		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1202952

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1202952-01 Date Collected: 02/20/12 16:30

Client ID: CAN 204 SHELF 9 Date Received: 02/21/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1202952

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1202952-01 Date Collected: 02/20/12 16:30

Client ID: CAN 204 SHELF 9 Date Received: 02/21/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1202952

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1202952-01 Date Collected: 02/20/12 16:30

Client ID: CAN 204 SHELF 9 Date Received: 02/21/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1202952

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID:	L1202952-01	Date Collected:	02/20/12 16:30
Client ID:	CAN 204 SHELF 9	Date Received:	02/21/12
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	02/21/12 18:54		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1202952

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1202952-01 Date Collected: 02/20/12 16:30

Client ID: CAN 204 SHELF 9 Date Received: 02/21/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1202952

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1202952-01 Date Collected: 02/20/12 16:30

Client ID: CAN 204 SHELF 9 Date Received: 02/21/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203248

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID:	L1203248-01	Date Collected:	02/24/12 13:40
Client ID:	CAN 104 SHELF 2	Date Received:	02/27/12
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	02/27/12 23:34		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203248

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1203248-01 Date Collected: 02/24/12 13:40

Client ID: CAN 104 SHELF 2 Date Received: 02/27/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203248

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1203248-01 Date Collected: 02/24/12 13:40

Client ID: CAN 104 SHELF 2 Date Received: 02/27/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203248

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1203248-01 Date Collected: 02/24/12 13:40

Client ID: CAN 104 SHELF 2 Date Received: 02/27/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	81		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203248

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID:	L1203248-01	Date Collected:	02/24/12 13:40
Client ID:	CAN 104 SHELF 2	Date Received:	02/27/12
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	02/27/12 23:34		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203248

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1203248-01 Date Collected: 02/24/12 13:40

Client ID: CAN 104 SHELF 2 Date Received: 02/27/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203248

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

Air Canister Certification Results

Lab ID: L1203248-01 Date Collected: 02/24/12 13:40

Client ID: CAN 104 SHELF 2 Date Received: 02/27/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	80		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1202952

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1202952-01	Date Collected:	02/20/12 16:30
Client ID:	CAN 204 SHELF 9	Date Received:	02/21/12
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	02/21/12 18:54		
Analyst:	MB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203248

Project Number: CANISTER QC BAT **Report Date:** 04/04/12

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1203248-01	Date Collected:	02/24/12 13:40
Client ID:	CAN 104 SHELF 2	Date Received:	02/27/12
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	02/27/12 23:34		
Analyst:	MB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205186
Report Date: 04/04/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1205186-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15(30)
L1205186-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15(30)
L1205186-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15(30)
L1205186-04A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15(30)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1205186
Project Number:	115058	**Report Date:**	04/04/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS IRA	**Lab Number:**	L1205186
Project Number:	115058	**Report Date:**	04/04/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205186
Report Date: 04/04/12

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020, 9050A. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 7474, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A,6020A,245.7,9040B,SM4500H-B. Organic Parameters: EPA 3510C,3640A,3660B,3665A,8270C,8270D,8082A,8081B.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Serial_No:04041124

Date Rec'd in Lab:

ALPHA Job #: L1205186

Client Information

Client: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978-970-5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARDO@ " " "

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD
Project #: 115058
Project Manager: DAVID SULLIVAN.
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/4/12 Time: COB.

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
05186-01	INFLUENT	3/27/12	11:15	11:35	-29.2	-0.2	SV	J.f.	2.7l	419	0064		✓						PID 0-0.1
-02	MID CARBON	3/27/12	11:17	11:37	-29.5	-2.0	SV	J.f.	2.7l	1750	0223		✓						PID 0
-03	EFFLUENT	3/27/12	11:21	11:41	-29.5	-1.5	SV	J.f.	2.7l	352	0445		✓						PID 0
-04	TANK VENT	3/27/12	11:22	11:42	-29.6	-0.1	SV	J.f.	2.7l	526	0444		✓						PID 25.8

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type			CS				

Relinquished By:	Date/Time	Received By:	Date/Time:
Jason C. Fiero	3/28/12	P. Gilbert	3/28/12 1010
P. Gilbert	3/28/12 1050	John O'B	3/28/12 1050

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 (19-Jun-09)

ANALYTICAL REPORT

Lab Number:	L1205685
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	04/11/12

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Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1205685-01	EFFLUENT	NEW BEDFORD	04/04/12 10:32

Project Name: NBHS IRA **Lab Number:** L1205685

Project Number: 115058 **Report Date:** 04/11/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

MCP Related Narratives

Canisters were released from the laboratory on April 3, 2012.

The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

Project Name:	NBHS IRA	**Lab Number:**	L1205685
Project Number:	115058	**Report Date:**	04/11/12

Case Narrative (continued)

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

L1205685-01and wg527753-5 Duplicate results for Acetone should be considered estimated due to co-elution with a non-target peak.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/11/12

AIR

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205685
Report Date: 04/11/12

SAMPLE RESULTS

Lab ID: L1205685-01
Client ID: EFFLUENT
Sample Location: NEW BEDFORD
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 04/07/12 20:48
Analyst: RY

Date Collected: 04/04/12 10:32
Date Received: 04/04/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Vinyl chloride	1.38	0.200	--	3.53	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Acetone	2.38	1.00	--	5.65	2.38	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.794	0.200	--	2.34	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.92	0.200	--	11.0	0.754	--		1

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205685
Report Date: 04/11/12

SAMPLE RESULTS

Lab ID: L1205685-01
Client ID: EFFLUENT
Sample Location: NEW BEDFORD
Date Collected: 04/04/12 10:32
Date Received: 04/04/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.96	0.200	--	8.51	0.869	--		1
p/m-Xylene	8.20	0.400	--	35.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.96	0.200	--	12.8	0.869	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	94		60-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/07/12 17:22

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG527753-4								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/07/12 17:22

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG527753-4								
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG527753-3								
Vinyl chloride	108		-		70-130	-		
Bromomethane	109		-		70-130	-		
Acetone	124		-		50-150	-		
1,1-Dichloroethene	106		-		70-130	-		
Methylene chloride	91		-		70-130	-		
trans-1,2-Dichloroethene	92		-		70-130	-		
1,1-Dichloroethane	102		-		70-130	-		
Methyl tert butyl ether	124		-		70-130	-		
2-Butanone	106		-		70-130	-		
cis-1,2-Dichloroethene	122		-		70-130	-		
Chloroform	120		-		70-130	-		
1,2-Dichloroethane	123		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
Benzene	92		-		70-130	-		
Carbon tetrachloride	98		-		70-130	-		
1,2-Dichloropropane	92		-		70-130	-		
Bromodichloromethane	102		-		70-130	-		
1,4-Dioxane	101		-		50-150	-		
Trichloroethene	94		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG527753-3								
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	101		-		70-130	-		
Toluene	106		-		70-130	-		
Dibromochloromethane	113		-		70-130	-		
1,2-Dibromoethane	113		-		70-130	-		
Tetrachloroethene	107		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	117		-		70-130	-		
p/m-Xylene	120		-		70-130	-		
Bromoform	121		-		70-130	-		
Styrene	118		-		70-130	-		
1,1,2,2-Tetrachloroethane	116		-		70-130	-		
o-Xylene	121		-		70-130	-		
1,3-Dichlorobenzene	122		-		70-130	-		
1,4-Dichlorobenzene	119		-		70-130	-		
1,2-Dichlorobenzene	123		-		70-130	-		
1,2,4-Trichlorobenzene	140		-		50-150	-		
Naphthalene	133		-		50-150	-		
Hexachlorobutadiene	132		-		50-150	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG527753-5 QC Sample: L1205685-01 Client ID: EFFLUENT						
Vinyl chloride	1.38	1.43	ppbV	4		25
Bromomethane	ND	ND	ppbV	NC		25
Acetone	2.38	2.27	ppbV	5		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.794	0.958	ppbV	19		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	0.205	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG527753-5 QC Sample: L1205685-01 Client ID: EFFLUENT					
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	2.92	2.84	ppbV	3	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	1.96	1.88	ppbV	4	25
p/m-Xylene	8.20	8.13	ppbV	1	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	2.96	2.85	ppbV	4	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG527753-5 QC Sample: L1205685-01 Client ID: EFFLUENT					
Naphthalene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: NBHS IRA

Lab Number: L1205685

Project Number: 115058

Report Date: 04/11/12

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RSD
L1205685-01	EFFLUENT	0429	#90 SV	04/03/12	76413		-	-	-	-	200	210	5
L1205685-01	EFFLUENT	523	2.7L Can	04/03/12	76413	L1203749	-	-29.0	-2.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203749

Project Number: CANISTER QC BAT **Report Date:** 04/11/12

Air Canister Certification Results

Lab ID:	L1203749-01	Date Collected:	03/05/12 16:33
Client ID:	CAN 1768 SHELF 4	Date Received:	03/06/12
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	03/07/12 19:00		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203749

Project Number: CANISTER QC BAT **Report Date:** 04/11/12

Air Canister Certification Results

Lab ID: L1203749-01 Date Collected: 03/05/12 16:33

Client ID: CAN 1768 SHELF 4 Date Received: 03/06/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203749

Project Number: CANISTER QC BAT **Report Date:** 04/11/12

Air Canister Certification Results

Lab ID: L1203749-01 Date Collected: 03/05/12 16:33

Client ID: CAN 1768 SHELF 4 Date Received: 03/06/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203749

Project Number: CANISTER QC BAT **Report Date:** 04/11/12

Air Canister Certification Results

Lab ID: L1203749-01 Date Collected: 03/05/12 16:33

Client ID: CAN 1768 SHELF 4 Date Received: 03/06/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203749

Project Number: CANISTER QC BAT **Report Date:** 04/11/12

Air Canister Certification Results

Lab ID:	L1203749-01	Date Collected:	03/05/12 16:33
Client ID:	CAN 1768 SHELF 4	Date Received:	03/06/12
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	03/07/12 19:00		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203749

Project Number: CANISTER QC BAT **Report Date:** 04/11/12

Air Canister Certification Results

Lab ID: L1203749-01 Date Collected: 03/05/12 16:33

Client ID: CAN 1768 SHELF 4 Date Received: 03/06/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203749

Project Number: CANISTER QC BAT **Report Date:** 04/11/12

Air Canister Certification Results

Lab ID: L1203749-01 Date Collected: 03/05/12 16:33

Client ID: CAN 1768 SHELF 4 Date Received: 03/06/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	81		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1203749

Project Number: CANISTER QC BAT **Report Date:** 04/11/12

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1203749-01	Date Collected:	03/05/12 16:33
Client ID:	CAN 1768 SHELF 4	Date Received:	03/06/12
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	03/07/12 19:00		
Analyst:	MB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1205685
Report Date: 04/11/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1205685-01A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	MCP-TO15(30)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1205685
Project Number:	115058	**Report Date:**	04/11/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name: NBHS IRA **Lab Number:** L1205685

Project Number: 115058 **Report Date:** 04/11/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1205685
Report Date: 04/11/12

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020, 9050A. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 7474, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A,6020A,245.7,9040B,SM4500H-B. Organic Parameters: EPA 3510C,3640A,3660B,3665A,8270C,8270D,8082A,8081B.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — *CHAIN OF CUSTODY*

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1205685

Client Information

Client: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978-970-5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM ALEONARD
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD
Project #: 115058
Project Manager: DAVID SULLIVAN AL LEONARD
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 4/11/12 Time: 17:00

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
MA	MCP.	

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L1205685-01	EFFLUENT	4/4/12	10:20	10:32	-29	-1	EFF.	JF	2.7l	523	429		✓						PID - 0 ppmv.

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type			CS				

Relinquished By:	Date/Time	Received By:	Date/Time:
Jason C. Fiore	4/4/12 1440	P. Gilbert	4/4/12 1440
P. Gilbert	4/4/12 1535	[illegible]	4/4/12 15:35

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1206691
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	04/25/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1206691-01	VAPOR INLTET	NEW BEDFORD MA	04/17/12 08:30
L1206691-02	VAPOR DISCHARGE	NEW BEDFORD MA	04/17/12 08:35

Project Name: NBHS IRA **Lab Number:** L1206691

Project Number: 115058 **Report Date:** 04/25/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

MCP Related Narratives

Canisters were released from the laboratory on April 13, 2012.

The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Case Narrative (continued)

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

L1206691-01 The presence of Acetone could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/25/12

AIR

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID: L1206691-01
Client ID: VAPOR INLTET
Sample Location: NEW BEDFORD MA
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 04/25/12 00:50
Analyst: MB

Date Collected: 04/17/12 08:30
Date Received: 04/17/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Vinyl chloride	2.46	0.200	--	6.29	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
trans-1,2-Dichloroethene	3.56	0.200	--	14.1	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	3.16	0.200	--	9.32	0.590	--		1
cis-1,2-Dichloroethene	13.1	0.200	--	51.9	0.793	--		1
Chloroform	0.213	0.200	--	1.04	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.224	0.200	--	0.716	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	24.8	0.200	--	133	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.45	0.200	--	5.46	0.754	--		1

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206691
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID: L1206691-01
Client ID: VAPOR INLTET
Sample Location: NEW BEDFORD MA
Date Collected: 04/17/12 08:30
Date Received: 04/17/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.367	0.200	--	1.59	0.869	--		1
p/m-Xylene	1.18	0.400	--	5.12	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.441	0.200	--	1.92	0.869	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	86		60-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID: L1206691-02
Client ID: VAPOR DISCHARGE
Sample Location: NEW BEDFORD MA
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 04/25/12 01:24
Analyst: MB

Date Collected: 04/17/12 08:35
Date Received: 04/17/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Vinyl chloride	2.50	0.200	--	6.39	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Acetone	2.92	1.00	--	6.94	2.38	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.889	0.200	--	2.62	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.326	0.200	--	1.23	0.754	--		1

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206691
Report Date: 04/25/12

SAMPLE RESULTS

Lab ID: L1206691-02
Client ID: VAPOR DISCHARGE
Sample Location: NEW BEDFORD MA
Date Collected: 04/17/12 08:35
Date Received: 04/17/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	85		60-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/24/12 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG530650-4								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/24/12 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG530650-4								
Methylene chloride	ND	1.40	--	ND	4.86	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/24/12 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG530650-4								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-Trimethyl-1-Pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-Trimethyl-2-Pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/24/12 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG530650-4								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 04/24/12 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG530650-4								
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG530650-3								
Chlorodifluoromethane	76		-		70-130	-		
Propylene	98		-		70-130	-		
Dichlorodifluoromethane	88		-		70-130	-		
Chloromethane	83		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	85		-		70-130	-		
Methanol	71		-		70-130	-		
Vinyl chloride	84		-		70-130	-		
1,3-Butadiene	84		-		70-130	-		
Bromomethane	82		-		70-130	-		
Chloroethane	78		-		70-130	-		
Ethyl Alcohol	85		-		70-130	-		
Dichlorofluoromethane	76		-		70-130	-		
Vinyl bromide	79		-		70-130	-		
Acrolein	95		-		70-130	-		
Acetone	100		-		50-150	-		
Acetonitrile	104		-		70-130	-		
Trichlorofluoromethane	81		-		70-130	-		
iso-Propyl Alcohol	92		-		70-130	-		
Acrylonitrile	90		-		70-130	-		
Pentane	70		-		70-130	-		
Ethyl ether	86		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG530650-3								
1,1-Dichloroethene	75		-		70-130	-		
tert-Butyl Alcohol	**68**	Q	-		70-130	-		
Methylene chloride	76		-		70-130	-		
3-Chloropropene	72		-		70-130	-		
Carbon disulfide	79		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	79		-		70-130	-		
trans-1,2-Dichloroethene	71		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	87		-		70-130	-		
Vinyl acetate	109		-		70-130	-		
2-Butanone	93		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		
Ethyl Acetate	101		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	91		-		70-130	-		
2,2-Dichloropropane	78		-		70-130	-		
1,2-Dichloroethane	89		-		70-130	-		
n-Hexane	78		-		70-130	-		
Isopropyl Ether	83		-		70-130	-		
Ethyl-Tert-Butyl-Ether	80		-		70-130	-		
1,1,1-Trichloroethane	79		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG530650-3								
1,1-Dichloropropene	78		-		70-130	-		
Benzene	88		-		70-130	-		
Carbon tetrachloride	77		-		70-130	-		
Cyclohexane	80		-		70-130	-		
Tertiary-Amyl Methyl Ether	79		-		70-130	-		
Dibromomethane	81		-		70-130	-		
1,2-Dichloropropane	93		-		70-130	-		
Bromodichloromethane	84		-		70-130	-		
1,4-Dioxane	85		-		50-150	-		
Trichloroethene	79		-		70-130	-		
2,2,4-Trimethylpentane	86		-		70-130	-		
Heptane	84		-		70-130	-		
2,4,4-Trimethyl-1-Pentene	90		-		70-130	-		
cis-1,3-Dichloropropene	88		-		70-130	-		
4-Methyl-2-pentanone	86		-		70-130	-		
2,4,4-Trimethyl-2-Pentene	83		-		70-130	-		
trans-1,3-Dichloropropene	75		-		70-130	-		
1,1,2-Trichloroethane	91		-		70-130	-		
Toluene	94		-		70-130	-		
1,3-Dichloropropane	89		-		70-130	-		
2-Hexanone	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG530650-3								
Dibromochloromethane	91		-		70-130	-		
1,2-Dibromoethane	93		-		70-130	-		
Octane	89		-		70-130	-		
Tetrachloroethene	91		-		70-130	-		
1,1,1,2-Tetrachloroethane	86		-		70-130	-		
Chlorobenzene	94		-		70-130	-		
Ethylbenzene	94		-		70-130	-		
p/m-Xylene	93		-		70-130	-		
Bromoform	88		-		70-130	-		
Styrene	95		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		
o-Xylene	99		-		70-130	-		
1,2,3-Trichloropropane	87		-		70-130	-		
Nonane (C9)	90		-		70-130	-		
Isopropylbenzene	93		-		70-130	-		
Bromobenzene	87		-		70-130	-		
o-Chlorotoluene	88		-		70-130	-		
n-Propylbenzene	93		-		70-130	-		
p-Chlorotoluene	88		-		70-130	-		
4-Ethyltoluene	90		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG530650-3								
tert-Butylbenzene	92		-		70-130	-		
1,2,4-Trimethylbenzene	97		-		70-130	-		
Decane (C10)	94		-		70-130	-		
Benzyl chloride	82		-		70-130	-		
1,3-Dichlorobenzene	92		-		70-130	-		
1,4-Dichlorobenzene	92		-		70-130	-		
sec-Butylbenzene	94		-		70-130	-		
p-Isopropyltoluene	87		-		70-130	-		
1,2-Dichlorobenzene	95		-		70-130	-		
n-Butylbenzene	94		-		70-130	-		
1,2-Dibromo-3-chloropropane	78		-		70-130	-		
Undecane	87		-		70-130	-		
Dodecane (C12)	77		-		70-130	-		
1,2,4-Trichlorobenzene	83		-		50-150	-		
Naphthalene	74		-		50-150	-		
1,2,3-Trichlorobenzene	77		-		70-130	-		
Hexachlorobutadiene	81		-		50-150	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG530650-5 QC Sample: L1206918-01 Client ID: DUP Sample						
Dichlorodifluoromethane	0.236	0.221	ppbV	7		25
Chloromethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Acetone	24.0	23.8	ppbV	1		25
Trichlorofluoromethane	0.231	0.209	ppbV	10		25
Ethyl ether	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	7.74	7.68	ppbV	1		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Tetrahydrofuran	0.590	0.567	ppbV	4		25
2,2-Dichloropropane	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG530650-5 QC Sample: L1206918-01 Client ID: DUP Sample					
Isopropyl Ether	ND	ND	ppbV	NC	25
Ethyl-Tert-Butyl-Ether	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloropropene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Tertiary-Amyl Methyl Ether	ND	ND	ppbV	NC	25
Dibromomethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
1,3-Dichloropropane	ND	ND	ppbV	NC	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG530650-5 QC Sample: L1206918-01 Client ID: DUP Sample					
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
1,2,3-Trichloropropane	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
Bromobenzene	ND	ND	ppbV	NC	25
o-Chlorotoluene	ND	ND	ppbV	NC	25
n-Propylbenzene	ND	ND	ppbV	NC	25
p-Chlorotoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
tert-Butylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG530650-5 QC Sample: L1206918-01 Client ID: DUP Sample					
sec-Butylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromo-3-chloropropane	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Naphthalene	ND	ND	ppbV	NC	25
1,2,3-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1206691

Report Date: 04/25/12

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1206691-01	VAPOR INLTET	0442	#90 SV	04/13/12	76889		-	-	-	Pass	200	212	6
L1206691-01	VAPOR INLTET	367	2.7L Can	04/13/12	76889	L1205474	Pass	-29.6	-1.4	-	-	-	-
L1206691-02	VAPOR DISCHARGE	0263	#90 SV	04/13/12	76889		-	-	-	Pass	200	211	5
L1206691-02	VAPOR DISCHARGE	1733	2.7L Can	04/13/12	76889	L1205474	Pass	-29.6	-1.5	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1205474

Project Number: CANISTER QC BAT **Report Date:** 04/25/12

Air Canister Certification Results

Lab ID:	L1205474-01	Date Collected:	03/30/12 14:24
Client ID:	CAN 107 SHELF 4	Date Received:	04/02/12
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	04/03/12 19:26		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1205474

Project Number: CANISTER QC BAT **Report Date:** 04/25/12

Air Canister Certification Results

Lab ID: L1205474-01 Date Collected: 03/30/12 14:24

Client ID: CAN 107 SHELF 4 Date Received: 04/02/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1205474

Project Number: CANISTER QC BAT **Report Date:** 04/25/12

Air Canister Certification Results

Lab ID: L1205474-01 Date Collected: 03/30/12 14:24

Client ID: CAN 107 SHELF 4 Date Received: 04/02/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1205474

Project Number: CANISTER QC BAT **Report Date:** 04/25/12

Air Canister Certification Results

Lab ID: L1205474-01 Date Collected: 03/30/12 14:24

Client ID: CAN 107 SHELF 4 Date Received: 04/02/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1205474

Project Number: CANISTER QC BAT **Report Date:** 04/25/12

Air Canister Certification Results

Lab ID:	L1205474-01	Date Collected:	03/30/12 14:24
Client ID:	CAN 107 SHELF 4	Date Received:	04/02/12
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	04/04/12 19:27		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1205474

Project Number: CANISTER QC BAT **Report Date:** 04/25/12

Air Canister Certification Results

Lab ID: L1205474-01 Date Collected: 03/30/12 14:24

Client ID: CAN 107 SHELF 4 Date Received: 04/02/12

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1205474

Project Number: CANISTER QC BAT **Report Date:** 04/25/12

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1205474-01	Date Collected:	03/30/12 14:24
Client ID:	CAN 107 SHELF 4	Date Received:	04/02/12
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	04/03/12 19:26		
Analyst:	MB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206691
Report Date: 04/25/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1206691-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15(30)
L1206691-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15(30)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1206691
Project Number:	115058	**Report Date:**	04/25/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name: NBHS IRA **Lab Number:** L1206691

Project Number: 115058 **Report Date:** 04/25/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1206691
Report Date: 04/25/12

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020, 9050A. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 7474, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A,6020A,245.7,9040B,SM4500H-B. Organic Parameters: EPA 3510C,3640A,3660B,3665A,8270C,8270D,8082A,8081B.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

Serial No:04251216:44

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1206691

Client Information

Client: TRC
Address: 650 SUFFOLK ST.
LOWELL MA
Phone: 978-970-5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM ALEONARD
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD MA
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
MA	MCP.	

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
06691 -01	VAPOR INLET	4/17	8:18	8:30	-29.6	-1.3	SV	JF/JP	2.7l	367	263		✓						PID BKG.. Ø
-02	VAPOR DISCHARGE	4/17	8:25	8:35	-29.6	-1.35	SV	JF/JP	2.7l	1733	442		✓						PID Ø
Container Type													CS						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Relinquished By:	Date/Time	Received By:	Date/Time:
Jason C. Fiero	4/17/12 17:50	C. Sullivan	4/17/12 17:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 401-02 (14-Jun-09)

Mechanical Room Soil Investigation

ANALYTICAL REPORT

Lab Number:	L1206803
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	05/03/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1206803-01	B-N-1 (7')	NEW BEDFORD, MA	04/18/12 12:30
L1206803-02	B-NW-1 (11')	NEW BEDFORD, MA	04/18/12 13:00
L1206803-03	B-NE-1 (11')	NEW BEDFORD, MA	04/18/12 13:30
L1206803-04	B-E-1 (8')	NEW BEDFORD, MA	04/18/12 14:35
L1206803-05	B-SSE-1 (6.5')	NEW BEDFORD, MA	04/18/12 16:35
L1206803-06	B-SSE-1 (9')	NEW BEDFORD, MA	04/18/12 16:45

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: NBHS IRA **Lab Number:** L1206803
Project Number: 115058 **Report Date:** 05/03/12

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

L1206803-01: The analysis of Volatile Organics by EPA Method 5035/8260B Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L1206803-05 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The results should be considered estimated, and are qualified with E flags, for any compounds that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

In reference to question G:

L1206803-01, -02 and -06: The requested CAM reporting limits were not achieved for Methylene chloride, Dichlorodifluoromethane, 2,2-Dichloropropane, Bromobenzene and Ethyl ether.

In reference to question H:

The initial calibration, associated with L1206803-01, -02, -05, and -06, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-Dioxane (0.00481), as well as the average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Bromomethane and Acetone.

The initial calibration, associated with L1206803-03, -04 and -05, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-Dioxane (0.00400), as well as the average response factor for 1,4-Dioxane.

The continuing calibration standards, associated with L1206803-01 through -06, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative Date: 05/03/12

ORGANICS

VOLATILES

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-01	Date Collected:	04/18/12 12:30
Client ID:	B-N-1 (7')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/25/12 16:27		
Analyst:	BN		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	850	--	1
1,1-Dichloroethane	ND		ug/kg	130	--	1
Chloroform	ND		ug/kg	130	--	1
Carbon tetrachloride	ND		ug/kg	85	--	1
1,2-Dichloropropane	ND		ug/kg	300	--	1
Dibromochloromethane	ND		ug/kg	85	--	1
1,1,2-Trichloroethane	ND		ug/kg	130	--	1
Tetrachloroethene	ND		ug/kg	85	--	1
Chlorobenzene	ND		ug/kg	85	--	1
Trichlorofluoromethane	ND		ug/kg	340	--	1
1,2-Dichloroethane	ND		ug/kg	85	--	1
1,1,1-Trichloroethane	ND		ug/kg	85	--	1
Bromodichloromethane	ND		ug/kg	85	--	1
trans-1,3-Dichloropropene	ND		ug/kg	85	--	1
cis-1,3-Dichloropropene	ND		ug/kg	85	--	1
1,1-Dichloropropene	ND		ug/kg	340	--	1
Bromoform	ND		ug/kg	340	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	85	--	1
Benzene	ND		ug/kg	85	--	1
Toluene	ND		ug/kg	130	--	1
Ethylbenzene	ND		ug/kg	85	--	1
Chloromethane	ND		ug/kg	340	--	1
Bromomethane	ND		ug/kg	170	--	1
Vinyl chloride	ND		ug/kg	170	--	1
Chloroethane	ND		ug/kg	170	--	1
1,1-Dichloroethene	ND		ug/kg	85	--	1
trans-1,2-Dichloroethene	ND		ug/kg	130	--	1
Trichloroethene	ND		ug/kg	85	--	1
1,2-Dichlorobenzene	ND		ug/kg	340	--	1
1,3-Dichlorobenzene	ND		ug/kg	340	--	1
1,4-Dichlorobenzene	ND		ug/kg	340	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-01 Date Collected: 04/18/12 12:30

Client ID: B-N-1 (7') Date Received: 04/19/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	170	--	1
p/m-Xylene	180		ug/kg	170	--	1
o-Xylene	ND		ug/kg	170	--	1
cis-1,2-Dichloroethene	ND		ug/kg	85	--	1
Dibromomethane	ND		ug/kg	340	--	1
1,2,3-Trichloropropane	ND		ug/kg	340	--	1
Styrene	ND		ug/kg	170	--	1
Dichlorodifluoromethane	ND		ug/kg	850	--	1
Acetone	ND		ug/kg	3000	--	1
Carbon disulfide	ND		ug/kg	340	--	1
2-Butanone	ND		ug/kg	850	--	1
4-Methyl-2-pentanone	ND		ug/kg	850	--	1
2-Hexanone	ND		ug/kg	850	--	1
Bromochloromethane	ND		ug/kg	340	--	1
Tetrahydrofuran	ND		ug/kg	340	--	1
2,2-Dichloropropane	ND		ug/kg	420	--	1
1,2-Dibromoethane	ND		ug/kg	340	--	1
1,3-Dichloropropane	ND		ug/kg	340	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	85	--	1
Bromobenzene	ND		ug/kg	420	--	1
n-Butylbenzene	ND		ug/kg	85	--	1
sec-Butylbenzene	ND		ug/kg	85	--	1
tert-Butylbenzene	ND		ug/kg	340	--	1
o-Chlorotoluene	ND		ug/kg	340	--	1
p-Chlorotoluene	ND		ug/kg	340	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	340	--	1
Hexachlorobutadiene	ND		ug/kg	340	--	1
Isopropylbenzene	ND		ug/kg	85	--	1
p-Isopropyltoluene	ND		ug/kg	85	--	1
Naphthalene	ND		ug/kg	340	--	1
n-Propylbenzene	ND		ug/kg	85	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	340	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	340	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	340	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	340	--	1
Ethyl ether	ND		ug/kg	420	--	1
Isopropyl Ether	ND		ug/kg	340	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	340	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	340	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-01	Date Collected:	04/18/12 12:30
Client ID:	B-N-1 (7')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	8500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-02	Date Collected:	04/18/12 13:00
Client ID:	B-NW-1 (11')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/25/12 16:54		
Analyst:	BN		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	970	--	1
1,1-Dichloroethane	ND		ug/kg	140	--	1
Chloroform	ND		ug/kg	140	--	1
Carbon tetrachloride	ND		ug/kg	97	--	1
1,2-Dichloropropane	ND		ug/kg	340	--	1
Dibromochloromethane	ND		ug/kg	97	--	1
1,1,2-Trichloroethane	ND		ug/kg	140	--	1
Tetrachloroethene	ND		ug/kg	97	--	1
Chlorobenzene	ND		ug/kg	97	--	1
Trichlorofluoromethane	ND		ug/kg	390	--	1
1,2-Dichloroethane	ND		ug/kg	97	--	1
1,1,1-Trichloroethane	ND		ug/kg	97	--	1
Bromodichloromethane	ND		ug/kg	97	--	1
trans-1,3-Dichloropropene	ND		ug/kg	97	--	1
cis-1,3-Dichloropropene	ND		ug/kg	97	--	1
1,1-Dichloropropene	ND		ug/kg	390	--	1
Bromoform	ND		ug/kg	390	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	97	--	1
Benzene	ND		ug/kg	97	--	1
Toluene	ND		ug/kg	140	--	1
Ethylbenzene	1100		ug/kg	97	--	1
Chloromethane	ND		ug/kg	390	--	1
Bromomethane	ND		ug/kg	190	--	1
Vinyl chloride	600		ug/kg	190	--	1
Chloroethane	ND		ug/kg	190	--	1
1,1-Dichloroethene	ND		ug/kg	97	--	1
trans-1,2-Dichloroethene	1600		ug/kg	140	--	1
Trichloroethene	ND		ug/kg	97	--	1
1,2-Dichlorobenzene	ND		ug/kg	390	--	1
1,3-Dichlorobenzene	1400		ug/kg	390	--	1
1,4-Dichlorobenzene	4400		ug/kg	390	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-02 Date Collected: 04/18/12 13:00

Client ID: B-NW-1 (11') Date Received: 04/19/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	190	--	1
p/m-Xylene	ND		ug/kg	190	--	1
o-Xylene	ND		ug/kg	190	--	1
cis-1,2-Dichloroethene	3600		ug/kg	97	--	1
Dibromomethane	ND		ug/kg	390	--	1
1,2,3-Trichloropropane	ND		ug/kg	390	--	1
Styrene	ND		ug/kg	190	--	1
Dichlorodifluoromethane	ND		ug/kg	970	--	1
Acetone	ND		ug/kg	3500	--	1
Carbon disulfide	ND		ug/kg	390	--	1
2-Butanone	ND		ug/kg	970	--	1
4-Methyl-2-pentanone	ND		ug/kg	970	--	1
2-Hexanone	ND		ug/kg	970	--	1
Bromochloromethane	ND		ug/kg	390	--	1
Tetrahydrofuran	ND		ug/kg	390	--	1
2,2-Dichloropropane	ND		ug/kg	480	--	1
1,2-Dibromoethane	ND		ug/kg	390	--	1
1,3-Dichloropropane	ND		ug/kg	390	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	97	--	1
Bromobenzene	ND		ug/kg	480	--	1
n-Butylbenzene	ND		ug/kg	97	--	1
sec-Butylbenzene	ND		ug/kg	97	--	1
tert-Butylbenzene	ND		ug/kg	390	--	1
o-Chlorotoluene	ND		ug/kg	390	--	1
p-Chlorotoluene	ND		ug/kg	390	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	390	--	1
Hexachlorobutadiene	ND		ug/kg	390	--	1
Isopropylbenzene	ND		ug/kg	97	--	1
p-Isopropyltoluene	ND		ug/kg	97	--	1
Naphthalene	ND		ug/kg	390	--	1
n-Propylbenzene	ND		ug/kg	97	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	390	--	1
1,2,4-Trichlorobenzene	4200		ug/kg	390	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	390	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	390	--	1
Ethyl ether	ND		ug/kg	480	--	1
Isopropyl Ether	ND		ug/kg	390	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	390	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	390	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-02	Date Collected:	04/18/12 13:00
Client ID:	B-NW-1 (11')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	9700	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-03	Date Collected:	04/18/12 13:30
Client ID:	B-NE-1 (11')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/27/12 03:51		
Analyst:	JL		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.9	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.79	--	1
1,2-Dichloropropane	ND		ug/kg	2.8	--	1
Dibromochloromethane	ND		ug/kg	0.79	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.79	--	1
Chlorobenzene	ND		ug/kg	0.79	--	1
Trichlorofluoromethane	ND		ug/kg	3.2	--	1
1,2-Dichloroethane	ND		ug/kg	0.79	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.79	--	1
Bromodichloromethane	ND		ug/kg	0.79	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.79	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.79	--	1
1,1-Dichloropropene	ND		ug/kg	3.2	--	1
Bromoform	ND		ug/kg	3.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.79	--	1
Benzene	ND		ug/kg	0.79	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	0.79	--	1
Chloromethane	ND		ug/kg	3.2	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.79	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
Trichloroethene	ND		ug/kg	0.79	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.2	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-03 Date Collected: 04/18/12 13:30

Client ID: B-NE-1 (11') Date Received: 04/19/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.79	--	1
Dibromomethane	ND		ug/kg	3.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.2	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	7.9	--	1
Acetone	ND		ug/kg	28	--	1
Carbon disulfide	ND		ug/kg	3.2	--	1
2-Butanone	ND		ug/kg	7.9	--	1
4-Methyl-2-pentanone	ND		ug/kg	7.9	--	1
2-Hexanone	ND		ug/kg	7.9	--	1
Bromochloromethane	ND		ug/kg	3.2	--	1
Tetrahydrofuran	ND		ug/kg	3.2	--	1
2,2-Dichloropropane	ND		ug/kg	3.9	--	1
1,2-Dibromoethane	ND		ug/kg	3.2	--	1
1,3-Dichloropropane	ND		ug/kg	3.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.79	--	1
Bromobenzene	ND		ug/kg	3.9	--	1
n-Butylbenzene	ND		ug/kg	0.79	--	1
sec-Butylbenzene	ND		ug/kg	0.79	--	1
tert-Butylbenzene	ND		ug/kg	3.2	--	1
o-Chlorotoluene	ND		ug/kg	3.2	--	1
p-Chlorotoluene	ND		ug/kg	3.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	--	1
Hexachlorobutadiene	ND		ug/kg	3.2	--	1
Isopropylbenzene	ND		ug/kg	0.79	--	1
p-Isopropyltoluene	ND		ug/kg	0.79	--	1
Naphthalene	ND		ug/kg	3.2	--	1
n-Propylbenzene	ND		ug/kg	0.79	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.2	--	1
Ethyl ether	ND		ug/kg	3.9	--	1
Isopropyl Ether	ND		ug/kg	3.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.2	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-03	Date Collected:	04/18/12 13:30
Client ID:	B-NE-1 (11')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	32	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-04	Date Collected:	04/18/12 14:35
Client ID:	B-E-1 (8')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/27/12 04:18		
Analyst:	JL		
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.78	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.78	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.78	--	1
Chlorobenzene	ND		ug/kg	0.78	--	1
Trichlorofluoromethane	ND		ug/kg	3.1	--	1
1,2-Dichloroethane	ND		ug/kg	0.78	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	--	1
Bromodichloromethane	ND		ug/kg	0.78	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
1,1-Dichloropropene	ND		ug/kg	3.1	--	1
Bromoform	ND		ug/kg	3.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Benzene	ND		ug/kg	0.78	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	0.78	--	1
Chloromethane	ND		ug/kg	3.1	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.78	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
Trichloroethene	1.0		ug/kg	0.78	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-04 Date Collected: 04/18/12 14:35

Client ID: B-E-1 (8') Date Received: 04/19/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	2.1		ug/kg	0.78	--	1
Dibromomethane	ND		ug/kg	3.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	7.8	--	1
Acetone	ND		ug/kg	28	--	1
Carbon disulfide	ND		ug/kg	3.1	--	1
2-Butanone	ND		ug/kg	7.8	--	1
4-Methyl-2-pentanone	ND		ug/kg	7.8	--	1
2-Hexanone	ND		ug/kg	7.8	--	1
Bromochloromethane	ND		ug/kg	3.1	--	1
Tetrahydrofuran	ND		ug/kg	3.1	--	1
2,2-Dichloropropane	ND		ug/kg	3.9	--	1
1,2-Dibromoethane	ND		ug/kg	3.1	--	1
1,3-Dichloropropane	ND		ug/kg	3.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Bromobenzene	ND		ug/kg	3.9	--	1
n-Butylbenzene	ND		ug/kg	0.78	--	1
sec-Butylbenzene	ND		ug/kg	0.78	--	1
tert-Butylbenzene	ND		ug/kg	3.1	--	1
o-Chlorotoluene	ND		ug/kg	3.1	--	1
p-Chlorotoluene	ND		ug/kg	3.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	3.1	--	1
Isopropylbenzene	ND		ug/kg	0.78	--	1
p-Isopropyltoluene	ND		ug/kg	0.78	--	1
Naphthalene	ND		ug/kg	3.1	--	1
n-Propylbenzene	ND		ug/kg	0.78	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	--	1
Ethyl ether	ND		ug/kg	3.9	--	1
Isopropyl Ether	ND		ug/kg	3.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.1	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-04 Date Collected: 04/18/12 14:35

Client ID: B-E-1 (8') Date Received: 04/19/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	31	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-05	Date Collected:	04/18/12 16:35
Client ID:	B-SSE-1 (6.5')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/27/12 04:45		
Analyst:	JL		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	2.5	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.72	--	1
Chlorobenzene	2.0		ug/kg	0.72	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	--	1
Bromodichloromethane	ND		ug/kg	0.72	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
1,1-Dichloropropene	ND		ug/kg	2.9	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	--	1
Benzene	ND		ug/kg	0.72	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	8.0		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	220	E	ug/kg	1.4	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	9.4		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	130		ug/kg	1.1	--	1
Trichloroethene	520	E	ug/kg	0.72	--	1
1,2-Dichlorobenzene	11		ug/kg	2.9	--	1
1,3-Dichlorobenzene	29		ug/kg	2.9	--	1
1,4-Dichlorobenzene	60		ug/kg	2.9	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-05 Date Collected: 04/18/12 16:35

Client ID: B-SSE-1 (6.5') Date Received: 04/19/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	1.7		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	1.4	--	1
cis-1,2-Dichloroethene	1000	E	ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	2.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.9	--	1
Styrene	ND		ug/kg	1.4	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	50		ug/kg	26	--	1
Carbon disulfide	ND		ug/kg	2.9	--	1
2-Butanone	12		ug/kg	7.2	--	1
4-Methyl-2-pentanone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	2.9	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	3.6	--	1
1,2-Dibromoethane	ND		ug/kg	2.9	--	1
1,3-Dichloropropane	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.72	--	1
Bromobenzene	ND		ug/kg	3.6	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	2.9	--	1
o-Chlorotoluene	ND		ug/kg	2.9	--	1
p-Chlorotoluene	ND		ug/kg	2.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	0.76		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1
1,2,3-Trichlorobenzene	40		ug/kg	2.9	--	1
1,2,4-Trichlorobenzene	250	E	ug/kg	2.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	--	1
Ethyl ether	ND		ug/kg	3.6	--	1
Isopropyl Ether	ND		ug/kg	2.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.9	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-05	Date Collected:	04/18/12 16:35
Client ID:	B-SSE-1 (6.5')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	29	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	94		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-05	Date Collected:	04/18/12 16:35
Client ID:	B-SSE-1 (6.5')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/27/12 13:41		
Analyst:	BN		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	850	--	1
1,1-Dichloroethane	ND		ug/kg	130	--	1
Chloroform	ND		ug/kg	130	--	1
Carbon tetrachloride	ND		ug/kg	85	--	1
1,2-Dichloropropane	ND		ug/kg	300	--	1
Dibromochloromethane	ND		ug/kg	85	--	1
1,1,2-Trichloroethane	ND		ug/kg	130	--	1
Tetrachloroethene	ND		ug/kg	85	--	1
Chlorobenzene	ND		ug/kg	85	--	1
Trichlorofluoromethane	ND		ug/kg	340	--	1
1,2-Dichloroethane	ND		ug/kg	85	--	1
1,1,1-Trichloroethane	ND		ug/kg	85	--	1
Bromodichloromethane	ND		ug/kg	85	--	1
trans-1,3-Dichloropropene	ND		ug/kg	85	--	1
cis-1,3-Dichloropropene	ND		ug/kg	85	--	1
1,1-Dichloropropene	ND		ug/kg	340	--	1
Bromoform	ND		ug/kg	340	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	85	--	1
Benzene	ND		ug/kg	85	--	1
Toluene	ND		ug/kg	130	--	1
Ethylbenzene	ND		ug/kg	85	--	1
Chloromethane	ND		ug/kg	340	--	1
Bromomethane	ND		ug/kg	170	--	1
Vinyl chloride	180		ug/kg	170	--	1
Chloroethane	ND		ug/kg	170	--	1
1,1-Dichloroethene	ND		ug/kg	85	--	1
trans-1,2-Dichloroethene	ND		ug/kg	130	--	1
Trichloroethene	280		ug/kg	85	--	1
1,2-Dichlorobenzene	ND		ug/kg	340	--	1
1,3-Dichlorobenzene	ND		ug/kg	340	--	1
1,4-Dichlorobenzene	ND		ug/kg	340	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-05 Date Collected: 04/18/12 16:35

Client ID: B-SSE-1 (6.5') Date Received: 04/19/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	170	--	1
p/m-Xylene	ND		ug/kg	170	--	1
o-Xylene	ND		ug/kg	170	--	1
cis-1,2-Dichloroethene	690		ug/kg	85	--	1
Dibromomethane	ND		ug/kg	340	--	1
1,2,3-Trichloropropane	ND		ug/kg	340	--	1
Styrene	ND		ug/kg	170	--	1
Dichlorodifluoromethane	ND		ug/kg	850	--	1
Acetone	ND		ug/kg	3100	--	1
Carbon disulfide	ND		ug/kg	340	--	1
2-Butanone	ND		ug/kg	850	--	1
4-Methyl-2-pentanone	ND		ug/kg	850	--	1
2-Hexanone	ND		ug/kg	850	--	1
Bromochloromethane	ND		ug/kg	340	--	1
Tetrahydrofuran	ND		ug/kg	340	--	1
2,2-Dichloropropane	ND		ug/kg	430	--	1
1,2-Dibromoethane	ND		ug/kg	340	--	1
1,3-Dichloropropane	ND		ug/kg	340	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	85	--	1
Bromobenzene	ND		ug/kg	430	--	1
n-Butylbenzene	ND		ug/kg	85	--	1
sec-Butylbenzene	ND		ug/kg	85	--	1
tert-Butylbenzene	ND		ug/kg	340	--	1
o-Chlorotoluene	ND		ug/kg	340	--	1
p-Chlorotoluene	ND		ug/kg	340	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	340	--	1
Hexachlorobutadiene	ND		ug/kg	340	--	1
Isopropylbenzene	ND		ug/kg	85	--	1
p-Isopropyltoluene	ND		ug/kg	85	--	1
Naphthalene	ND		ug/kg	340	--	1
n-Propylbenzene	ND		ug/kg	85	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	340	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	340	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	340	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	340	--	1
Ethyl ether	ND		ug/kg	430	--	1
Isopropyl Ether	ND		ug/kg	340	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	340	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	340	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-05	Date Collected:	04/18/12 16:35
Client ID:	B-SSE-1 (6.5')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
1,4-Dioxane	ND		ug/kg	8500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-06	Date Collected:	04/18/12 16:45
Client ID:	B-SSE-1 (9')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/25/12 17:22		
Analyst:	BN		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	980	--	1
1,1-Dichloroethane	ND		ug/kg	150	--	1
Chloroform	ND		ug/kg	150	--	1
Carbon tetrachloride	ND		ug/kg	98	--	1
1,2-Dichloropropane	ND		ug/kg	340	--	1
Dibromochloromethane	ND		ug/kg	98	--	1
1,1,2-Trichloroethane	ND		ug/kg	150	--	1
Tetrachloroethene	ND		ug/kg	98	--	1
Chlorobenzene	ND		ug/kg	98	--	1
Trichlorofluoromethane	ND		ug/kg	390	--	1
1,2-Dichloroethane	ND		ug/kg	98	--	1
1,1,1-Trichloroethane	ND		ug/kg	98	--	1
Bromodichloromethane	ND		ug/kg	98	--	1
trans-1,3-Dichloropropene	ND		ug/kg	98	--	1
cis-1,3-Dichloropropene	ND		ug/kg	98	--	1
1,1-Dichloropropene	ND		ug/kg	390	--	1
Bromoform	ND		ug/kg	390	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	98	--	1
Benzene	ND		ug/kg	98	--	1
Toluene	ND		ug/kg	150	--	1
Ethylbenzene	420		ug/kg	98	--	1
Chloromethane	ND		ug/kg	390	--	1
Bromomethane	ND		ug/kg	200	--	1
Vinyl chloride	ND		ug/kg	200	--	1
Chloroethane	ND		ug/kg	200	--	1
1,1-Dichloroethene	ND		ug/kg	98	--	1
trans-1,2-Dichloroethene	ND		ug/kg	150	--	1
Trichloroethene	ND		ug/kg	98	--	1
1,2-Dichlorobenzene	ND		ug/kg	390	--	1
1,3-Dichlorobenzene	1200		ug/kg	390	--	1
1,4-Dichlorobenzene	710		ug/kg	390	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-06 Date Collected: 04/18/12 16:45

Client ID: B-SSE-1 (9') Date Received: 04/19/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	200	--	1
p/m-Xylene	ND		ug/kg	200	--	1
o-Xylene	ND		ug/kg	200	--	1
cis-1,2-Dichloroethene	100		ug/kg	98	--	1
Dibromomethane	ND		ug/kg	390	--	1
1,2,3-Trichloropropane	ND		ug/kg	390	--	1
Styrene	ND		ug/kg	200	--	1
Dichlorodifluoromethane	ND		ug/kg	980	--	1
Acetone	ND		ug/kg	3500	--	1
Carbon disulfide	ND		ug/kg	390	--	1
2-Butanone	ND		ug/kg	980	--	1
4-Methyl-2-pentanone	ND		ug/kg	980	--	1
2-Hexanone	ND		ug/kg	980	--	1
Bromochloromethane	ND		ug/kg	390	--	1
Tetrahydrofuran	ND		ug/kg	390	--	1
2,2-Dichloropropane	ND		ug/kg	490	--	1
1,2-Dibromoethane	ND		ug/kg	390	--	1
1,3-Dichloropropane	ND		ug/kg	390	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	98	--	1
Bromobenzene	ND		ug/kg	490	--	1
n-Butylbenzene	ND		ug/kg	98	--	1
sec-Butylbenzene	ND		ug/kg	98	--	1
tert-Butylbenzene	ND		ug/kg	390	--	1
o-Chlorotoluene	ND		ug/kg	390	--	1
p-Chlorotoluene	ND		ug/kg	390	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	390	--	1
Hexachlorobutadiene	ND		ug/kg	390	--	1
Isopropylbenzene	ND		ug/kg	98	--	1
p-Isopropyltoluene	ND		ug/kg	98	--	1
Naphthalene	ND		ug/kg	390	--	1
n-Propylbenzene	ND		ug/kg	98	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	390	--	1
1,2,4-Trichlorobenzene	12000		ug/kg	390	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	390	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	390	--	1
Ethyl ether	ND		ug/kg	490	--	1
Isopropyl Ether	ND		ug/kg	390	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	390	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	390	--	1

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

SAMPLE RESULTS

Lab ID:	L1206803-06	Date Collected:	04/18/12 16:45
Client ID:	B-SSE-1 (9')	Date Received:	04/19/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	9800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/25/12 10:34
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01-02,06 Batch: WG531826-3					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/25/12 10:34
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01-02,06 Batch: WG531826-3					
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
2-Butanone	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/25/12 10:34
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01-02,06 Batch: WG531826-3					
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Ethyl ether	ND		ug/kg	250	--
Isopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	5000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	95		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 03-04 Batch: WG532226-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 03-04 Batch: WG532226-3					
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
2-Butanone	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 03-04 Batch: WG532226-3					
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
Ethyl ether	ND		ug/kg	5.0	--
Isopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 05 Batch: WG532227-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 05 Batch: WG532227-3					
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
2-Butanone	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 05 Batch: WG532227-3					
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
Ethyl ether	ND		ug/kg	5.0	--
Isopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/27/12 12:16
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 05 Batch: WG532345-3					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/27/12 12:16
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 05 Batch: WG532345-3					
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
2-Butanone	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--

Project Name: NBHS IRA **Lab Number:** L1206803

Project Number: 115058 **Report Date:** 05/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/27/12 12:16
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 05 Batch: WG532345-3					
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Ethyl ether	ND		ug/kg	250	--
Isopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	5000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01-02,06 Batch: WG531826-1 WG531826-2								
Methylene chloride	99		96		70-130	3		20
1,1-Dichloroethane	103		103		70-130	0		20
Chloroform	104		103		70-130	1		20
Carbon tetrachloride	106		106		70-130	0		20
1,2-Dichloropropane	101		100		70-130	1		20
Dibromochloromethane	101		98		70-130	3		20
1,1,2-Trichloroethane	103		98		70-130	5		20
Tetrachloroethene	106		106		70-130	0		20
Chlorobenzene	102		102		70-130	0		20
Trichlorofluoromethane	108		110		70-130	2		20
1,2-Dichloroethane	100		98		70-130	2		20
1,1,1-Trichloroethane	106		105		70-130	1		20
Bromodichloromethane	102		100		70-130	2		20
trans-1,3-Dichloropropene	103		100		70-130	3		20
cis-1,3-Dichloropropene	102		100		70-130	2		20
1,1-Dichloropropene	105		106		70-130	1		20
Bromoform	102		98		70-130	4		20
1,1,2,2-Tetrachloroethane	102		98		70-130	4		20
Benzene	104		104		70-130	0		20
Toluene	103		103		70-130	0		20
Ethylbenzene	104		103		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01-02,06 Batch: WG531826-1 WG531826-2								
Chloromethane	102		105		70-130	3		20
Bromomethane	115		129		70-130	11		20
Vinyl chloride	103		106		70-130	3		20
Chloroethane	102		104		70-130	2		20
1,1-Dichloroethene	106		107		70-130	1		20
trans-1,2-Dichloroethene	106		106		70-130	0		20
Trichloroethene	102		99		70-130	3		20
1,2-Dichlorobenzene	102		102		70-130	0		20
1,3-Dichlorobenzene	102		104		70-130	2		20
1,4-Dichlorobenzene	102		103		70-130	1		20
Methyl tert butyl ether	100		96		70-130	4		20
p/m-Xylene	104		103		70-130	1		20
o-Xylene	104		103		70-130	1		20
cis-1,2-Dichloroethene	105		102		70-130	3		20
Dibromomethane	100		98		70-130	2		20
1,2,3-Trichloropropane	99		94		70-130	5		20
Styrene	103		103		70-130	0		20
Dichlorodifluoromethane	111		114		70-130	3		20
Acetone	84		82		70-130	2		20
Carbon disulfide	100		102		70-130	2		20
2-Butanone	97		85		70-130	13		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01-02,06 Batch: WG531826-1 WG531826-2								
4-Methyl-2-pentanone	97		87		70-130	11		20
2-Hexanone	93		82		70-130	13		20
Bromochloromethane	102		102		70-130	0		20
Tetrahydrofuran	96		83		70-130	15		20
2,2-Dichloropropane	104		106		70-130	2		20
1,2-Dibromoethane	103		97		70-130	6		20
1,3-Dichloropropane	102		99		70-130	3		20
1,1,1,2-Tetrachloroethane	103		101		70-130	2		20
Bromobenzene	102		102		70-130	0		20
n-Butylbenzene	105		107		70-130	2		20
sec-Butylbenzene	105		108		70-130	3		20
tert-Butylbenzene	104		106		70-130	2		20
o-Chlorotoluene	102		104		70-130	2		20
p-Chlorotoluene	103		104		70-130	1		20
1,2-Dibromo-3-chloropropane	95		87		70-130	9		20
Hexachlorobutadiene	106		108		70-130	2		20
Isopropylbenzene	103		106		70-130	3		20
p-Isopropyltoluene	105		107		70-130	2		20
Naphthalene	100		94		70-130	6		20
n-Propylbenzene	104		105		70-130	1		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01-02,06 Batch: WG531826-1 WG531826-2								
1,2,4-Trichlorobenzene	103		103		70-130	0		20
1,3,5-Trimethylbenzene	104		105		70-130	1		20
1,2,4-Trimethylbenzene	103		105		70-130	2		20
Ethyl ether	99		94		70-130	5		20
Isopropyl Ether	101		100		70-130	1		20
Ethyl-Tert-Butyl-Ether	102		99		70-130	3		20
Tertiary-Amyl Methyl Ether	102		98		70-130	4		20
1,4-Dioxane	100		89		70-130	12		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	99		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG532226-1 WG532226-2								
Methylene chloride	99		92		70-130	7		20
1,1-Dichloroethane	103		95		70-130	8		20
Chloroform	97		90		70-130	7		20
Carbon tetrachloride	96		88		70-130	9		20
1,2-Dichloropropane	101		98		70-130	3		20
Dibromochloromethane	95		90		70-130	5		20
1,1,2-Trichloroethane	97		92		70-130	5		20
Tetrachloroethene	97		88		70-130	10		20
Chlorobenzene	99		92		70-130	7		20
Trichlorofluoromethane	101		94		70-130	7		20
1,2-Dichloroethane	97		95		70-130	2		20
1,1,1-Trichloroethane	97		89		70-130	9		20
Bromodichloromethane	97		93		70-130	4		20
trans-1,3-Dichloropropene	99		92		70-130	7		20
cis-1,3-Dichloropropene	97		93		70-130	4		20
1,1-Dichloropropene	96		88		70-130	9		20
Bromoform	101		96		70-130	5		20
1,1,2,2-Tetrachloroethane	103		96		70-130	7		20
Benzene	98		91		70-130	7		20
Toluene	100		92		70-130	8		20
Ethylbenzene	98		91		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG532226-1 WG532226-2								
Chloromethane	93		82		70-130	13		20
Bromomethane	101		91		70-130	10		20
Vinyl chloride	96		86		70-130	11		20
Chloroethane	118		106		70-130	11		20
1,1-Dichloroethene	91		87		70-130	4		20
trans-1,2-Dichloroethene	95		88		70-130	8		20
Trichloroethene	96		91		70-130	5		20
1,2-Dichlorobenzene	104		96		70-130	8		20
1,3-Dichlorobenzene	104		95		70-130	9		20
1,4-Dichlorobenzene	105		96		70-130	9		20
Methyl tert butyl ether	95		90		70-130	5		20
p/m-Xylene	99		91		70-130	8		20
o-Xylene	97		90		70-130	7		20
cis-1,2-Dichloroethene	96		90		70-130	6		20
Dibromomethane	92		88		70-130	4		20
1,2,3-Trichloropropane	108		96		70-130	12		20
Styrene	97		90		70-130	7		20
Dichlorodifluoromethane	85		76		70-130	11		20
Acetone	122		114		70-130	7		20
Carbon disulfide	91		83		70-130	9		20
2-Butanone	103		99		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG532226-1 WG532226-2								
4-Methyl-2-pentanone	90		90		70-130	0		20
2-Hexanone	98		92		70-130	6		20
Bromochloromethane	96		92		70-130	4		20
Tetrahydrofuran	100		93		70-130	7		20
2,2-Dichloropropane	98		91		70-130	7		20
1,2-Dibromoethane	95		90		70-130	5		20
1,3-Dichloropropane	97		92		70-130	5		20
1,1,1,2-Tetrachloroethane	98		92		70-130	6		20
Bromobenzene	105		98		70-130	7		20
n-Butylbenzene	106		94		70-130	12		20
sec-Butylbenzene	106		95		70-130	11		20
tert-Butylbenzene	106		96		70-130	10		20
o-Chlorotoluene	107		97		70-130	10		20
p-Chlorotoluene	108		98		70-130	10		20
1,2-Dibromo-3-chloropropane	98		91		70-130	7		20
Hexachlorobutadiene	102		90		70-130	13		20
Isopropylbenzene	108		99		70-130	9		20
p-Isopropyltoluene	104		94		70-130	10		20
Naphthalene	97		89		70-130	9		20
n-Propylbenzene	108		98		70-130	10		20
1,2,3-Trichlorobenzene	104		94		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG532226-1 WG532226-2								
1,2,4-Trichlorobenzene	103		92		70-130	11		20
1,3,5-Trimethylbenzene	107		98		70-130	9		20
1,2,4-Trimethylbenzene	106		96		70-130	10		20
Ethyl ether	84		81		70-130	4		20
Isopropyl Ether	111		106		70-130	5		20
Ethyl-Tert-Butyl-Ether	100		95		70-130	5		20
Tertiary-Amyl Methyl Ether	95		89		70-130	7		20
1,4-Dioxane	89		85		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		100		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 05 Batch: WG532227-1 WG532227-2								
Methylene chloride	99		92		70-130	7		20
1,1-Dichloroethane	103		95		70-130	8		20
Chloroform	97		90		70-130	7		20
Carbon tetrachloride	96		88		70-130	9		20
1,2-Dichloropropane	101		98		70-130	3		20
Dibromochloromethane	95		90		70-130	5		20
1,1,2-Trichloroethane	97		92		70-130	5		20
Tetrachloroethene	97		88		70-130	10		20
Chlorobenzene	99		92		70-130	7		20
Trichlorofluoromethane	101		94		70-130	7		20
1,2-Dichloroethane	97		95		70-130	2		20
1,1,1-Trichloroethane	97		89		70-130	9		20
Bromodichloromethane	97		93		70-130	4		20
trans-1,3-Dichloropropene	99		92		70-130	7		20
cis-1,3-Dichloropropene	97		93		70-130	4		20
1,1-Dichloropropene	96		88		70-130	9		20
Bromoform	101		96		70-130	5		20
1,1,2,2-Tetrachloroethane	103		96		70-130	7		20
Benzene	98		91		70-130	7		20
Toluene	100		92		70-130	8		20
Ethylbenzene	98		91		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 05 Batch: WG532227-1 WG532227-2								
Chloromethane	93		82		70-130	13		20
Bromomethane	101		91		70-130	10		20
Vinyl chloride	96		86		70-130	11		20
Chloroethane	118		106		70-130	11		20
1,1-Dichloroethene	91		87		70-130	4		20
trans-1,2-Dichloroethene	95		88		70-130	8		20
Trichloroethene	96		91		70-130	5		20
1,2-Dichlorobenzene	104		96		70-130	8		20
1,3-Dichlorobenzene	104		95		70-130	9		20
1,4-Dichlorobenzene	105		96		70-130	9		20
Methyl tert butyl ether	95		90		70-130	5		20
p/m-Xylene	99		91		70-130	8		20
o-Xylene	97		90		70-130	7		20
cis-1,2-Dichloroethene	96		90		70-130	6		20
Dibromomethane	92		88		70-130	4		20
1,2,3-Trichloropropane	108		96		70-130	12		20
Styrene	97		90		70-130	7		20
Dichlorodifluoromethane	85		76		70-130	11		20
Acetone	122		114		70-130	7		20
Carbon disulfide	91		83		70-130	9		20
2-Butanone	103		99		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 05 Batch: WG532227-1 WG532227-2								
4-Methyl-2-pentanone	90		90		70-130	0		20
2-Hexanone	98		92		70-130	6		20
Bromochloromethane	96		92		70-130	4		20
Tetrahydrofuran	100		93		70-130	7		20
2,2-Dichloropropane	98		91		70-130	7		20
1,2-Dibromoethane	95		90		70-130	5		20
1,3-Dichloropropane	97		92		70-130	5		20
1,1,1,2-Tetrachloroethane	98		92		70-130	6		20
Bromobenzene	105		98		70-130	7		20
n-Butylbenzene	106		94		70-130	12		20
sec-Butylbenzene	106		95		70-130	11		20
tert-Butylbenzene	106		96		70-130	10		20
o-Chlorotoluene	107		97		70-130	10		20
p-Chlorotoluene	108		98		70-130	10		20
1,2-Dibromo-3-chloropropane	98		91		70-130	7		20
Hexachlorobutadiene	102		90		70-130	13		20
Isopropylbenzene	108		99		70-130	9		20
p-Isopropyltoluene	104		94		70-130	10		20
Naphthalene	97		89		70-130	9		20
n-Propylbenzene	108		98		70-130	10		20
1,2,3-Trichlorobenzene	104		94		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 05 Batch: WG532227-1 WG532227-2								
1,2,4-Trichlorobenzene	103		92		70-130	11		20
1,3,5-Trimethylbenzene	107		98		70-130	9		20
1,2,4-Trimethylbenzene	106		96		70-130	10		20
Ethyl ether	84		81		70-130	4		20
Isopropyl Ether	111		106		70-130	5		20
Ethyl-Tert-Butyl-Ether	100		95		70-130	5		20
Tertiary-Amyl Methyl Ether	95		89		70-130	7		20
1,4-Dioxane	89		85		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		100		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 05 Batch: WG532345-1 WG532345-2								
Methylene chloride	108		105		70-130	3		20
1,1-Dichloroethane	109		105		70-130	4		20
Chloroform	110		105		70-130	5		20
Carbon tetrachloride	112		106		70-130	6		20
1,2-Dichloropropane	108		104		70-130	4		20
Dibromochloromethane	103		99		70-130	4		20
1,1,2-Trichloroethane	104		101		70-130	3		20
Tetrachloroethene	105		99		70-130	6		20
Chlorobenzene	103		100		70-130	3		20
Trichlorofluoromethane	116		110		70-130	5		20
1,2-Dichloroethane	107		105		70-130	2		20
1,1,1-Trichloroethane	112		106		70-130	6		20
Bromodichloromethane	109		107		70-130	2		20
trans-1,3-Dichloropropene	102		98		70-130	4		20
cis-1,3-Dichloropropene	107		106		70-130	1		20
1,1-Dichloropropene	111		105		70-130	6		20
Bromoform	99		96		70-130	3		20
1,1,2,2-Tetrachloroethane	98		94		70-130	4		20
Benzene	110		105		70-130	5		20
Toluene	100		96		70-130	4		20
Ethylbenzene	103		99		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 05 Batch: WG532345-1 WG532345-2								
Chloromethane	108		102		70-130	6		20
Bromomethane	129		114		70-130	12		20
Vinyl chloride	110		103		70-130	7		20
Chloroethane	112		107		70-130	5		20
1,1-Dichloroethene	112		105		70-130	6		20
trans-1,2-Dichloroethene	111		106		70-130	5		20
Trichloroethene	110		105		70-130	5		20
1,2-Dichlorobenzene	100		96		70-130	4		20
1,3-Dichlorobenzene	99		96		70-130	3		20
1,4-Dichlorobenzene	98		96		70-130	2		20
Methyl tert butyl ether	109		105		70-130	4		20
p/m-Xylene	103		98		70-130	5		20
o-Xylene	104		99		70-130	5		20
cis-1,2-Dichloroethene	110		105		70-130	5		20
Dibromomethane	109		105		70-130	4		20
1,2,3-Trichloropropane	98		96		70-130	2		20
Styrene	104		100		70-130	4		20
Dichlorodifluoromethane	114		104		70-130	9		20
Acetone	94		90		70-130	4		20
Carbon disulfide	104		100		70-130	4		20
2-Butanone	99		102		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 05 Batch: WG532345-1 WG532345-2								
4-Methyl-2-pentanone	104		101		70-130	3		20
2-Hexanone	92		89		70-130	3		20
Bromochloromethane	112		108		70-130	4		20
Tetrahydrofuran	98		93		70-130	5		20
2,2-Dichloropropane	108		102		70-130	6		20
1,2-Dibromoethane	104		100		70-130	4		20
1,3-Dichloropropane	103		99		70-130	4		20
1,1,1,2-Tetrachloroethane	104		100		70-130	4		20
Bromobenzene	101		97		70-130	4		20
n-Butylbenzene	99		96		70-130	3		20
sec-Butylbenzene	100		97		70-130	3		20
tert-Butylbenzene	101		97		70-130	4		20
o-Chlorotoluene	98		95		70-130	3		20
p-Chlorotoluene	100		96		70-130	4		20
1,2-Dibromo-3-chloropropane	92		88		70-130	4		20
Hexachlorobutadiene	98		96		70-130	2		20
Isopropylbenzene	101		96		70-130	5		20
p-Isopropyltoluene	100		97		70-130	3		20
Naphthalene	96		94		70-130	2		20
n-Propylbenzene	100		96		70-130	4		20
1,2,3-Trichlorobenzene	94		94		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 05 Batch: WG532345-1 WG532345-2								
1,2,4-Trichlorobenzene	96		95		70-130	1		20
1,3,5-Trimethylbenzene	100		96		70-130	4		20
1,2,4-Trimethylbenzene	100		96		70-130	4		20
Ethyl ether	108		104		70-130	4		20
Isopropyl Ether	106		103		70-130	3		20
Ethyl-Tert-Butyl-Ether	106		105		70-130	1		20
Tertiary-Amyl Methyl Ether	108		106		70-130	2		20
1,4-Dioxane	108		102		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	100		100		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-01
Client ID: B-N-1 (7')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:30
Date Received: 04/19/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	04/19/12 21:55	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-02
Client ID: B-NW-1 (11')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 13:00
Date Received: 04/19/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	04/19/12 21:55	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-03
Client ID: B-NE-1 (11')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 13:30
Date Received: 04/19/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	04/19/12 21:55	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-04
Client ID: B-E-1 (8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 14:35
Date Received: 04/19/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77		%	0.10	NA	1	-	04/19/12 21:55	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-05
Client ID: B-SSE-1 (6.5')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 16:35
Date Received: 04/19/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	04/19/12 21:55	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

SAMPLE RESULTS

Lab ID: L1206803-06
Client ID: B-SSE-1 (9')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 16:45
Date Received: 04/19/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	04/19/12 21:55	30,2540G	RD

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG530407-1 QC Sample: L1206692-04 Client ID: DUP Sample						
Solids, Total	70	72	%	3		20

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1206803
Report Date: 05/03/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/19/2012 12:02

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1206803-01A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-01B	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-01C	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-01D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1206803-02A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-02B	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-02C	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-02D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1206803-03A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-03B	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-03C	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-03D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1206803-04A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-04B	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-04C	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-04D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1206803-05A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1206803-05B	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1206803-05C	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1206803-05D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1206803-06A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-06B	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-06C	Vial water preserved	A	N/A	3.9	Y	Absent	MCP-8260HLW-10(14)
L1206803-06D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1206803
Project Number:	115058	**Report Date:**	05/03/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS IRA	**Lab Number:**	L1206803
Project Number:	115058	**Report Date:**	05/03/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA **Lab Number:** L1206803
Project Number: 115058 **Report Date:** 05/03/12

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 4/19/12

ALPHA Job #: L1206803

ALPHA ANALYTICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: TRC

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978-970-5600

Fax:

Email: DSULLIVAN ALEONARD@TRCSOLUTIONS.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/3/12 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260 VOCs HI/LOW	% SOLIDS										Sample Specific Comments	TOTAL # BOTTLES
06803 1	B-N-1 (7')	4/18/12	12:30	S	JF/EW	✓	✓										480 ppm	4
2	B-NW-1 (11')	"	13:00	S	JF/EW	✓	✓										377 ppm	4
3	B-NE-1 (11')	"	13:30	S	JF/EW	✓	✓										~ 2 ppm	4
4	B-E-1 (8')	"	14:35	S	JF/EW	✓	✓										77 ppm	4
5	B-SSE-1 (6.5')	"	16:35	S	JF/EW	✓	✓										65 ppm	4
6	B-SSE-1 (9')	"	16:45	S	JF/EW	✓	✓										~ 120 ppm	4

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	V	P
Preservative	F/O	A

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	4/18/12 20:20	Eileen Sullivan	4/18/12 20:20
[illegible]	4/19/12 0855	[illegible]	4/19/12 0915
[illegible]	4/19/12 1025	[illegible]	4/19/12 1025

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

Serial_No:05031210:24

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206803

Instrument ID: Voa100.i Calibration Date: 26-APR-2012 Time: 19:20

Lab File ID: 0426N01 Init. Calib. Date(s): 27-MAR-2 27-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 16:05 18:47

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.35868	.30509	.1	15	20	
chloromethane	.75095	.69697	.1	7	20	
vinyl chloride	.44781	.43197	.1	4	20	
bromomethane	100	101	.1	-1	20	
chloroethane	100	119	.1	-19	20	
trichlorofluoromethane	.41712	.42178	.1	-1	20	
ethyl ether	.18586	.15568	.05	16	20	
1,1,-dichloroethene	.29565	.26778	.1	9	20	
carbon disulfide	.97013	.88471	.1	9	20	
methylene chloride	.3159	.31391	.1	1	20	
acetone	100	122	.1	-22	20	F
trans-1,2-dichloroethene	.33771	.32103	.1	5	20	
methyl tert butyl ether	.92079	.87096	.1	5	20	
Diisopropyl Ether	1.805	2.0036	.05	-11	20	
1,1-dichloroethane	.72853	.74886	.2	-3	20	
Ethyl-Tert-Butyl-Ether	1.5317	1.5260	.05	0	20	
cis-1,2-dichloroethene	.35551	.33984	.1	4	20	
2,2-dichloropropane	.478	.471	.05	1	20	
bromochloromethane	.16878	.16207	.05	4	20	
chloroform	.61614	.59662	.2	3	20	
carbontetrachloride	.48398	.46243	.1	4	20	
tetrahydrofuran	.18705	.18616	.05	0	20	
1,1,1-trichloroethane	.53236	.51606	.1	3	20	
2-butanone	.26359	.27212	.1	-3	20	
1,1-dichloropropene	.42968	.41094	.05	4	20	
benzene	1.1694	1.1482	.5	2	20	
Tertiary-Amyl Methyl Ether	.87901	.83237	.05	5	20	
1,2-dichloroethane	.58261	.56627	.1	3	20	
trichloroethene	.34587	.3323	.2	4	20	
dibromomethane	.20047	.18474	.05	8	20	
1,2-dichloropropane	.40516	.408	.1	-1	20	
bromodichloromethane	.44238	.42766	.2	3	20	
1,4-dioxane	.0043	.00305	.05	29	20	F
cis-1,3-dichloropropene	.50276	.48951	.2	3	20	
toluene	100	100	.4	0	20	
4-methyl-2-pentanone	.20653	.18646	.1	10	20	
tetrachloroethene	.48723	.47394	.2	3	20	
trans-1,3-dichloropropene	.64019	.63122	.1	1	20	

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206803

Instrument ID: Voa100.i Calibration Date: 26-APR-2012 Time: 19:20

Lab File ID: 0426N01 Init. Calib. Date(s): 27-MAR-2 27-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 16:05 18:47

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.31203	.30137	.1	3	20
chlorodibromomethane	.49599	.47119	.1	5	20
1,3-dichloropropane	.63012	.61182	.05	3	20
1,2-dibromoethane	.41703	.39526	.1	5	20
2-hexanone	.58647	.57606	.1	2	20
chlorobenzene	1.1951	1.1790	.5	1	20
ethyl benzene	1.9421	1.9114	.1	2	20
1,1,1,2-tetrachloroethane	.46189	.45285	.05	2	20
p/m xylene	.77269	.76588	.1	1	20
o xylene	.75467	.73037	.3	3	20
styrene	1.2199	1.1847	.3	3	20
bromoform	.60059	.60688	.1	-1	20
isopropylbenzene	3.3996	3.6688	.1	-8	20
bromobenzene	.89586	.94067	.05	-5	20
n-propylbenzene	3.8680	4.1959	.05	-8	20
1,1,2,2,-tetrachloroethane	.90538	.93056	.3	-3	20
2-chlorotoluene	2.6167	2.7916	.05	-7	20
1,3,5-trimethybenzene	2.8530	3.0556	.05	-7	20
1,2,3-trichloropropane	.74467	.80213	.05	-8	20
4-chorotoluene	2.4739	2.6616	.05	-8	20
tert-butylbenzene	2.6033	2.7631	.05	-6	20
1,2,4-trimethylbenzene	2.8883	3.0622	.05	-6	20
sec-butylbenzene	3.6910	3.8953	.05	-6	20
p-isopropyltoluene	3.2694	3.4097	.05	-4	20
1,3-dichlorobenzene	1.7443	1.8188	.6	-4	20
1,4-dichlorobenzene	1.7899	1.8744	.5	-5	20
n-butylbenzene	2.8911	3.0742	.05	-6	20
1,2-dichlorobenzene	1.6490	1.7157	.4	-4	20
1,2-dibromo-3-chloropropane	.19138	.188	.05	2	20
hexachlorobutadiene	.61384	.62497	.05	-2	20
1,2,4-trichlorobenzene	1.1996	1.2347	.2	-3	20
naphthalene	3.2877	3.1794	.05	3	20
1,2,3-trichlorobenzene	1.1147	1.1552	.05	-4	20
dibromofluoromethane	.27899	.26583	.05	5	30
1,2-dichloroethane-d4	.34583	.33323	.05	4	30
toluene-d8	1.3123	1.3020	.05	1	30
4-bromofluorobenzene	.94137	.98548	.05	-5	30

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206803

Instrument ID: Voa104.i Calibration Date: 27-APR-2012 Time: 11:20

Lab File ID: 0427N02 Init. Calib. Date(s): 24-APR-2 24-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:15 16:02

Compound	___ RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.44374	.50371	.1	-14	20	
chloromethane	.5643	.60772	.1	-8	20	
vinyl chloride	.64419	.71016	.1	-10	20	
bromomethane	100	129	.1	-29	20	F
chloroethane	100	112	.1	-12	20	
trichlorofluoromethane	.72771	.84445	.1	-16	20	
ethyl ether	.2535	.27331	.05	-8	20	
1,1,-dichloroethene	.37801	.42325	.1	-12	20	
carbon disulfide	1.3723	1.4352	.1	-5	20	
methylene chloride	.51919	.55994	.1	-8	20	
acetone	100	94.394	.1	6	20	
trans-1,2-dichloroethene	.42655	.4733	.1	-11	20	
methyl tert butyl ether	1.2707	1.3820	.1	-9	20	
Diisopropyl Ether	1.4296	1.5155	.05	-6	20	
1,1-dichloroethane	.92304	1.0084	.2	-9	20	
Ethyl-Tert-Butyl-Ether	1.6908	1.7975	.05	-6	20	
cis-1,2-dichloroethene	.46853	.5166	.1	-10	20	
2,2-dichloropropane	.67612	.72974	.05	-8	20	
bromochloromethane	.24196	.27241	.05	-13	20	
chloroform	.80821	.88647	.2	-10	20	
carbontetrachloride	.6507	.7281	.1	-12	20	
tetrahydrofuran	.21666	.21184	.05	2	20	
1,1,1-trichloroethane	.71048	.7938	.1	-12	20	
2-butanone	.26869	.26564	.1	1	20	
1,1-dichloropropene	.59718	.66431	.05	-11	20	
benzene	1.655	1.8127	.5	-10	20	
Tertiary-Amyl Methyl Ether	1.2279	1.3299	.05	-8	20	
1,2-dichloroethane	.74805	.8039	.1	-7	20	
trichloroethene	.50866	.55777	.2	-10	20	
dibromomethane	.31016	.33962	.05	-9	20	
1,2-dichloropropane	.52439	.56896	.1	-8	20	
bromodichloromethane	.62637	.68354	.2	-9	20	
1,4-dioxane	.0073	.00632	.05	13	20	F
cis-1,3-dichloropropene	.73848	.78891	.2	-7	20	
toluene	1.2328	1.2339	.4	0	20	
tetrachloroethene	.57229	.60003	.2	-5	20	
4-methyl-2-pentanone	.24935	.25867	.1	-4	20	
trans-1,3-dichloropropene	.78213	.80028	.1	-2	20	

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206803

Instrument ID: Voa104.i Calibration Date: 27-APR-2012 Time: 11:20

Lab File ID: 0427N02 Init. Calib. Date(s): 24-APR-2 24-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:15 16:02

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.39093	.40576	.1	-4	20
chlorodibromomethane	.59571	.61192	.1	-3	20
1,3-dichloropropane	.76448	.78947	.05	-3	20
1,2-dibromoethane	.51352	.53244	.1	-4	20
2-hexanone	.507	.46715	.1	8	20
chlorobenzene	1.4252	1.4662	.5	-3	20
ethyl benzene	2.3297	2.3957	.1	-3	20
1,1,1,2-tetrachloroethane	.53362	.55593	.05	-4	20
p/m xylene	.92062	.95275	.1	-3	20
o xylene	.88142	.92134	.3	-5	20
styrene	1.4718	1.5315	.3	-4	20
bromoform	.73776	.73032	.1	1	20
isopropylbenzene	4.0862	4.1142	.1	-1	20
bromobenzene	1.1210	1.1281	.05	-1	20
n-propylbenzene	4.6725	4.6828	.05	0	20
1,1,2,2,-tetrachloroethane	1.0986	1.0790	.3	2	20
2-chlorotoluene	2.9402	2.8954	.05	2	20
1,2,3-trichloropropane	.95599	.9391	.05	2	20
1,3,5-trimethybenzene	3.4063	3.4259	.05	-1	20
4-chorotoluene	2.9407	2.9379	.05	0	20
tert-butylbenzene	2.8192	2.8457	.05	-1	20
1,2,4-trimethylbenzene	3.4175	3.4093	.05	0	20
sec-butylbenzene	4.3672	4.3719	.05	0	20
p-isopropyltoluene	3.5168	3.5225	.05	0	20
1,3-dichlorobenzene	2.0819	2.0706	.6	1	20
1,4-dichlorobenzene	2.1295	2.0984	.5	1	20
n-butylbenzene	3.4217	3.3838	.05	1	20
1,2-dichlorobenzene	1.9871	1.9772	.4	0	20
1,2-dibromo-3-chloropropane	.25192	.23111	.05	8	20
hexachlorobutadiene	.72659	.71099	.05	2	20
1,2,4-trichlorobenzene	1.3831	1.3250	.2	4	20
naphthalene	3.6359	3.5092	.05	3	20
1,2,3-trichlorobenzene	1.3175	1.2387	.05	6	20
dibromofluoromethane	.27459	.27446	.05	0	30
1,2-dichloroethane-d4	.3443	.33942	.05	1	30
toluene-d8	1.1420	1.1073	.05	3	30
4-bromofluorobenzene	.86722	.85579	.05	1	30

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206803

Instrument ID: Voa104.i Calibration Date: 25-APR-2012 Time: 10:06

Lab File ID: 0425A02 Init. Calib. Date(s): 24-APR-2 24-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:15 16:02

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.44374	.49318	.1	-11	20	
chloromethane	.5643	.5756	.1	-2	20	
vinyl chloride	.64419	.66534	.1	-3	20	
bromomethane	100	115	.1	-15	20	
chloroethane	100	102	.1	-2	20	
trichlorofluoromethane	.72771	.78934	.1	-8	20	
ethyl ether	.2535	.25037	.05	1	20	
1,1,-dichloroethene	.37801	.3998	.1	-6	20	
carbon disulfide	1.3723	1.3782	.1	0	20	
methylene chloride	.51919	.51246	.1	1	20	
acetone	100	84.263	.1	16	20	
trans-1,2-dichloroethene	.42655	.452	.1	-6	20	
methyl tert butyl ether	1.2707	1.2768	.1	0	20	
Diisopropyl Ether	1.4296	1.4459	.05	-1	20	
1,1-dichloroethane	.92304	.94867	.2	-3	20	
Ethyl-Tert-Butyl-Ether	1.6908	1.7247	.05	-2	20	
cis-1,2-dichloroethene	.46853	.49152	.1	-5	20	
2,2-dichloropropane	.67612	.70646	.05	-4	20	
bromochloromethane	.24196	.24774	.05	-2	20	
chloroform	.80821	.8385	.2	-4	20	
carbontetrachloride	.6507	.69175	.1	-6	20	
tetrahydrofuran	.21666	.20767	.05	4	20	
1,1,1-trichloroethane	.71048	.75162	.1	-6	20	
2-butanone	.26869	.26098	.1	3	20	
1,1-dichloropropene	.59718	.62472	.05	-5	20	
benzene	1.655	1.7136	.5	-4	20	
Tertiary-Amyl Methyl Ether	1.2279	1.2590	.05	-3	20	
1,2-dichloroethane	.74805	.74821	.1	0	20	
trichloroethene	.50866	.52069	.2	-2	20	
dibromomethane	.31016	.30993	.05	0	20	
1,2-dichloropropane	.52439	.52954	.1	-1	20	
bromodichloromethane	.62637	.64264	.2	-3	20	
1,4-dioxane	.0073	.00587	.05	20	20	F
cis-1,3-dichloropropene	.73848	.75309	.2	-2	20	
toluene	1.2328	1.2679	.4	-3	20	
tetrachloroethene	.57229	.60386	.2	-6	20	
4-methyl-2-pentanone	.24935	.24157	.1	3	20	
trans-1,3-dichloropropene	.78213	.80514	.1	-3	20	

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1206803

Instrument ID: Voa104.i Calibration Date: 25-APR-2012 Time: 10:06

Lab File ID: 0425A02 Init. Calib. Date(s): 24-APR-2 24-APR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:15 16:02

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.39093	.40222	.1	-3	20
chlorodibromomethane	.59571	.60361	.1	-1	20
1,3-dichloropropane	.76448	.78002	.05	-2	20
1,2-dibromoethane	.51352	.52689	.1	-3	20
2-hexanone	.507	.47136	.1	7	20
chlorobenzene	1.4252	1.4582	.5	-2	20
ethyl benzene	2.3297	2.4119	.1	-4	20
1,1,1,2-tetrachloroethane	.53362	.54993	.05	-3	20
p/m xylene	.92062	.95523	.1	-4	20
o xylene	.88142	.91323	.3	-4	20
styrene	1.4718	1.5225	.3	-3	20
bromoform	.73776	.75447	.1	-2	20
isopropylbenzene	4.0862	4.2129	.1	-3	20
bromobenzene	1.1210	1.1419	.05	-2	20
n-propylbenzene	4.6725	4.8362	.05	-4	20
1,1,2,2,-tetrachloroethane	1.0986	1.1193	.3	-2	20
2-chlorotoluene	2.9402	2.9854	.05	-2	20
1,2,3-trichloropropane	.95599	.95012	.05	1	20
1,3,5-trimethybenzene	3.4063	3.5334	.05	-4	20
4-chorotoluene	2.9407	3.0421	.05	-3	20
tert-butylbenzene	2.8192	2.9352	.05	-4	20
1,2,4-trimethylbenzene	3.4175	3.5363	.05	-3	20
sec-butylbenzene	4.3672	4.5965	.05	-5	20
p-isopropyltoluene	3.5168	3.6888	.05	-5	20
1,3-dichlorobenzene	2.0819	2.1287	.6	-2	20
1,4-dichlorobenzene	2.1295	2.1792	.5	-2	20
n-butylbenzene	3.4217	3.5955	.05	-5	20
1,2-dichlorobenzene	1.9871	2.0208	.4	-2	20
1,2-dibromo-3-chloropropane	.25192	.23895	.05	5	20
hexachlorobutadiene	.72659	.77092	.05	-6	20
1,2,4-trichlorobenzene	1.3831	1.4247	.2	-3	20
naphthalene	3.6359	3.6510	.05	0	20
1,2,3-trichlorobenzene	1.3175	1.3252	.05	-1	20
dibromofluoromethane	.27459	.2717	.05	1	30
1,2-dichloroethane-d4	.3443	.33845	.05	2	30
toluene-d8	1.1420	1.1430	.05	0	30
4-bromofluorobenzene	.86722	.86565	.05	0	30

FORM VII MCP-8260HLW-10

ANALYTICAL REPORT

Lab Number:	L1207064
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	05/07/12

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1207064-01	B-N-1 (6-8')	NEW BEDFORD, MA	04/18/12 12:30
L1207064-02	B-N-1 (8-10')	NEW BEDFORD, MA	04/18/12 12:35
L1207064-03	B-NW-1 (6-6.5')	NEW BEDFORD, MA	04/18/12 12:45
L1207064-04	B-NW-1 (6.5-8')	NEW BEDFORD, MA	04/18/12 12:46
L1207064-05	B-NW-1 (8-10')	NEW BEDFORD, MA	04/18/12 12:52
L1207064-06	B-NW-1 (10-11.5')	NEW BEDFORD, MA	04/18/12 13:10
L1207064-07	B-NE-1 (6-8')	NEW BEDFORD, MA	04/18/12 13:18
L1207064-08	B-NE-1 (8-10')	NEW BEDFORD, MA	04/18/12 13:23
L1207064-09	B-NE-1 (10-12')	NEW BEDFORD, MA	04/18/12 13:35
L1207064-10	B-E-1 (4-6')	NEW BEDFORD, MA	04/18/12 14:30
L1207064-11	B-E-1 (6-8')	NEW BEDFORD, MA	04/18/12 14:40
L1207064-12	B-E-1 (8-10')	NEW BEDFORD, MA	04/18/12 14:50
L1207064-13	B-E-1 (10-12')	NEW BEDFORD, MA	04/18/12 15:00
L1207064-14	B-SE-1 (6-8')	NEW BEDFORD, MA	04/18/12 15:20
L1207064-15	B-SE-1 (8-10')	NEW BEDFORD, MA	04/18/12 15:40
L1207064-16	B-SSE-1 (6-8')	NEW BEDFORD, MA	04/18/12 16:40
L1207064-17	B-SSE-1 (8-10')	NEW BEDFORD, MA	04/18/12 16:50
L1207064-18	MIP-B-S-3 (6-8')	NEW BEDFORD, MA	04/20/12 09:20
L1207064-19	MIP-B-S-3 (8-10')	NEW BEDFORD, MA	04/20/12 09:30
L1207064-20	MIP-B-S-3 (10-12')	NEW BEDFORD, MA	04/20/12 09:40
L1207064-21	MIP-B-W-1 (6-8')	NEW BEDFORD, MA	04/20/12 10:30
L1207064-22	MIP-B-W-1 (8-10')	NEW BEDFORD, MA	04/20/12 10:40
L1207064-23	MIP-B-W-1 (10-12')	NEW BEDFORD, MA	04/20/12 10:50
L1207064-24	B-SSE-X	NEW BEDFORD, MA	04/18/12 17:00

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

Case Narrative (continued)

MCP Related Narratives

PCBs

L1207064-01, -02, -04, -05, -06, -11, -13, -21 and -23 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

L1207064-01, -02, -04, -05, -06, -11, -13, -21 and -23: The requested CAM reporting limits were not achieved for all analytes.

In reference to question H:

The surrogate recoveries for L1207064-01, -02, -04, -05, -06, -13, -21 and -23 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

The WG531469-2/-3 LCS/LCSD RPDs, associated with L1207064-13 through -21, -23 and -24, are above the acceptance criteria for Aroclor 1016 (42%) and Aroclor 1260 (43%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 05/07/12

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-01	Date Collected:	04/18/12 12:30
Client ID:	B-N-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/27/12 19:26		
Analyst:	NH		
Percent Solids:	69%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	370000		ug/kg	45700	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-06	Date Collected:	04/18/12 13:10
Client ID:	B-NW-1 (10-11.5')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/27/12 20:00		
Analyst:	NH		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	510000		ug/kg	38600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-09	Date Collected:	04/18/12 13:35
Client ID:	B-NE-1 (10-12')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/27/12 20:33		
Analyst:	NH		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	37600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-11	Date Collected:	04/18/12 14:40
Client ID:	B-E-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/27/12 21:07		
Analyst:	NH		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	38000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		40-140

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-15	Date Collected:	04/18/12 15:40
Client ID:	B-SE-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/27/12 21:41		
Analyst:	NH		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	40600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-17	Date Collected:	04/18/12 16:50
Client ID:	B-SSE-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/27/12 22:15		
Analyst:	NH		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	37300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-18	Date Collected:	04/20/12 09:20
Client ID:	MIP-B-S-3 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/27/12 22:49		
Analyst:	NH		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	35800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-20	Date Collected:	04/20/12 09:40
Client ID:	MIP-B-S-3 (10-12')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/27/12 23:22		
Analyst:	NH		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	36800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-21	Date Collected:	04/20/12 10:30
Client ID:	MIP-B-W-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 11:16
Analytical Date:	04/28/12 01:04		
Analyst:	NH		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	482000		ug/kg	36600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-24	Date Collected:	04/18/12 17:00
Client ID:	B-SSE-X	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	04/26/12 13:09
Analytical Date:	04/28/12 05:36		
Analyst:	NH		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	37900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		40-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015B(M)
Analytical Date: 04/27/12 16:38
Analyst: NH

Extraction Method: EPA 3546
Extraction Date: 04/26/12 11:16

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01,06,09,11,15,17-18,20-21 Batch: WG531746-1					
TPH	ND		ug/kg	32800	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015B(M)
Analytical Date: 04/28/12 02:46
Analyst: NH

Extraction Method: EPA 3546
Extraction Date: 04/26/12 13:09

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 24 Batch: WG531813-1					
TPH	ND		ug/kg	32200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01,06,09,11,15,17-18,20-21 Batch: WG531746-2								
TPH	73		-		40-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	73				40-140

Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 24 Batch: WG531813-2								
TPH	78		-		40-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	81				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01,06,09,11,15,17-18,20-21 QC Batch ID: WG531746-3 QC Sample: L1206800-02 Client ID: DUP Sample						
TPH	ND	ND	ug/kg	NC		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		71		40-140

Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 24 QC Batch ID: WG531813-3 QC Sample: L1207082-03 Client ID: DUP Sample						
TPH	57200		65500	ug/kg	14	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	75		80		40-140

PCBS

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-01 D	Date Collected:	04/18/12 12:30
Client ID:	B-N-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/04/12 15:18	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	69%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	58400	--	1250
Aroclor 1221	ND		ug/kg	58400	--	1250
Aroclor 1232	ND		ug/kg	58400	--	1250
Aroclor 1242	ND		ug/kg	58400	--	1250
Aroclor 1248	ND		ug/kg	58400	--	1250
Aroclor 1260	ND		ug/kg	58400	--	1250
Aroclor 1262	ND		ug/kg	58400	--	1250
Aroclor 1268	ND		ug/kg	58400	--	1250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-01	D	Date Collected:	04/18/12 12:30
Client ID:	B-N-1 (6-8')		Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3540C
Analytical Method:	97,8082		Extraction Date:	04/25/12 09:50
Analytical Date:	05/04/12 15:18		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	04/28/12
Percent Solids:	69%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	692000		ug/kg	58400	--	1250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-02	D	Date Collected:	04/18/12 12:35
Client ID:	B-N-1 (8-10')		Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3540C
Analytical Method:	97,8082		Extraction Date:	04/25/12 09:50
Analytical Date:	05/03/12 21:37		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	04/28/12
Percent Solids:	90%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	3510	--	100
Aroclor 1221	ND		ug/kg	3510	--	100
Aroclor 1232	ND		ug/kg	3510	--	100
Aroclor 1242	ND		ug/kg	3510	--	100
Aroclor 1248	ND		ug/kg	3510	--	100
Aroclor 1260	ND		ug/kg	3510	--	100
Aroclor 1262	ND		ug/kg	3510	--	100
Aroclor 1268	ND		ug/kg	3510	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-02	D	Date Collected:	04/18/12 12:35
Client ID:	B-N-1 (8-10')		Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3540C
Analytical Method:	97,8082		Extraction Date:	04/25/12 09:50
Analytical Date:	05/03/12 21:37		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	04/28/12
Percent Solids:	90%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	58700		ug/kg	3510	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-03	Date Collected:	04/18/12 12:45
Client ID:	B-NW-1 (6-6.5')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	04/30/12 16:57	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	54%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	59.8	--	1
Aroclor 1221	ND		ug/kg	59.8	--	1
Aroclor 1232	ND		ug/kg	59.8	--	1
Aroclor 1242	ND		ug/kg	59.8	--	1
Aroclor 1248	ND		ug/kg	59.8	--	1
Aroclor 1254	429		ug/kg	59.8	--	1
Aroclor 1260	ND		ug/kg	59.8	--	1
Aroclor 1262	ND		ug/kg	59.8	--	1
Aroclor 1268	ND		ug/kg	59.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	86		30-150
Decachlorobiphenyl	55		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	42		30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-04 D	Date Collected:	04/18/12 12:46
Client ID:	B-NW-1 (6.5-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/04/12 15:33	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	45000	--	1250
Aroclor 1221	ND		ug/kg	45000	--	1250
Aroclor 1232	ND		ug/kg	45000	--	1250
Aroclor 1242	ND		ug/kg	45000	--	1250
Aroclor 1248	ND		ug/kg	45000	--	1250
Aroclor 1260	ND		ug/kg	45000	--	1250
Aroclor 1262	ND		ug/kg	45000	--	1250
Aroclor 1268	ND		ug/kg	45000	--	1250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-04 D	Date Collected:	04/18/12 12:46
Client ID:	B-NW-1 (6.5-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/04/12 15:33	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	563000		ug/kg	45000	--	1250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-05 D	Date Collected:	04/18/12 12:52
Client ID:	B-NW-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/04/12 15:49	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	37300	--	1000
Aroclor 1221	ND		ug/kg	37300	--	1000
Aroclor 1232	ND		ug/kg	37300	--	1000
Aroclor 1242	ND		ug/kg	37300	--	1000
Aroclor 1248	ND		ug/kg	37300	--	1000
Aroclor 1260	ND		ug/kg	37300	--	1000
Aroclor 1262	ND		ug/kg	37300	--	1000
Aroclor 1268	ND		ug/kg	37300	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-05 D	Date Collected:	04/18/12 12:52
Client ID:	B-NW-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/04/12 15:49	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	540000		ug/kg	37300	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-06 D	Date Collected:	04/18/12 13:10
Client ID:	B-NW-1 (10-11.5')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/04/12 16:04	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	46500	--	1250
Aroclor 1221	ND		ug/kg	46500	--	1250
Aroclor 1232	ND		ug/kg	46500	--	1250
Aroclor 1242	ND		ug/kg	46500	--	1250
Aroclor 1248	ND		ug/kg	46500	--	1250
Aroclor 1260	ND		ug/kg	46500	--	1250
Aroclor 1262	ND		ug/kg	46500	--	1250
Aroclor 1268	ND		ug/kg	46500	--	1250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-06 D	Date Collected:	04/18/12 13:10
Client ID:	B-NW-1 (10-11.5')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/04/12 16:04	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	556000		ug/kg	46500	--	1250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-07	Date Collected:	04/18/12 13:18
Client ID:	B-NE-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	04/30/12 17:52	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	84%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.3	--	1
Aroclor 1221	ND		ug/kg	38.3	--	1
Aroclor 1232	ND		ug/kg	38.3	--	1
Aroclor 1242	ND		ug/kg	38.3	--	1
Aroclor 1248	ND		ug/kg	38.3	--	1
Aroclor 1254	215		ug/kg	38.3	--	1
Aroclor 1260	ND		ug/kg	38.3	--	1
Aroclor 1262	ND		ug/kg	38.3	--	1
Aroclor 1268	ND		ug/kg	38.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	56		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-08	Date Collected:	04/18/12 13:23
Client ID:	B-NE-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	04/30/12 18:05	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.8	--	1
Aroclor 1221	ND		ug/kg	37.8	--	1
Aroclor 1232	ND		ug/kg	37.8	--	1
Aroclor 1242	ND		ug/kg	37.8	--	1
Aroclor 1248	ND		ug/kg	37.8	--	1
Aroclor 1254	40.2		ug/kg	37.8	--	1
Aroclor 1260	ND		ug/kg	37.8	--	1
Aroclor 1262	ND		ug/kg	37.8	--	1
Aroclor 1268	ND		ug/kg	37.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	47		30-150
Decachlorobiphenyl	40		30-150
2,4,5,6-Tetrachloro-m-xylene	42		30-150
Decachlorobiphenyl	30		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-09	Date Collected:	04/18/12 13:35
Client ID:	B-NE-1 (10-12')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	04/30/12 18:19	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.7	--	1
Aroclor 1221	ND		ug/kg	36.7	--	1
Aroclor 1232	ND		ug/kg	36.7	--	1
Aroclor 1242	ND		ug/kg	36.7	--	1
Aroclor 1248	ND		ug/kg	36.7	--	1
Aroclor 1254	46.0		ug/kg	36.7	--	1
Aroclor 1260	ND		ug/kg	36.7	--	1
Aroclor 1262	ND		ug/kg	36.7	--	1
Aroclor 1268	ND		ug/kg	36.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	90		30-150
Decachlorobiphenyl	80		30-150
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	58		30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-11 D	Date Collected:	04/18/12 14:40
Client ID:	B-E-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/02/12 20:51	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	192	--	5
Aroclor 1221	ND		ug/kg	192	--	5
Aroclor 1232	ND		ug/kg	192	--	5
Aroclor 1242	ND		ug/kg	192	--	5
Aroclor 1248	ND		ug/kg	192	--	5
Aroclor 1260	ND		ug/kg	192	--	5
Aroclor 1262	ND		ug/kg	192	--	5
Aroclor 1268	ND		ug/kg	192	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	83		30-150
2,4,5,6-Tetrachloro-m-xylene	95		30-150
Decachlorobiphenyl	88		30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-11 D	Date Collected:	04/18/12 14:40
Client ID:	B-E-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 09:50
Analytical Date:	05/02/12 20:51	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	04/28/12
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	2980		ug/kg	192	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	83		30-150
2,4,5,6-Tetrachloro-m-xylene	95		30-150
Decachlorobiphenyl	88		30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-13 D	Date Collected:	04/18/12 15:00
Client ID:	B-E-1 (10-12')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	05/03/12 22:32	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	3660	--	100
Aroclor 1221	ND		ug/kg	3660	--	100
Aroclor 1232	ND		ug/kg	3660	--	100
Aroclor 1242	ND		ug/kg	3660	--	100
Aroclor 1248	ND		ug/kg	3660	--	100
Aroclor 1260	ND		ug/kg	3660	--	100
Aroclor 1262	ND		ug/kg	3660	--	100
Aroclor 1268	ND		ug/kg	3660	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-13	D	Date Collected:	04/18/12 15:00
Client ID:	B-E-1 (10-12')		Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3540C
Analytical Method:	97,8082		Extraction Date:	04/25/12 10:40
Analytical Date:	05/03/12 22:32		Cleanup Method1:	EPA 3665A
Analyst:	SS		Cleanup Date1:	04/28/12
Percent Solids:	87%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	29500		ug/kg	3660	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-14	Date Collected:	04/18/12 15:20
Client ID:	B-SE-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 01:03	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	83%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.3	--	1
Aroclor 1221	ND		ug/kg	38.3	--	1
Aroclor 1232	ND		ug/kg	38.3	--	1
Aroclor 1242	ND		ug/kg	38.3	--	1
Aroclor 1248	ND		ug/kg	38.3	--	1
Aroclor 1254	273		ug/kg	38.3	--	1
Aroclor 1260	ND		ug/kg	38.3	--	1
Aroclor 1262	ND		ug/kg	38.3	--	1
Aroclor 1268	ND		ug/kg	38.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	90		30-150
Decachlorobiphenyl	85		30-150
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	84		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-15	Date Collected:	04/18/12 15:40
Client ID:	B-SE-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 01:16	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	81%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	39.8	--	1
Aroclor 1221	ND		ug/kg	39.8	--	1
Aroclor 1232	ND		ug/kg	39.8	--	1
Aroclor 1242	ND		ug/kg	39.8	--	1
Aroclor 1248	ND		ug/kg	39.8	--	1
Aroclor 1254	390		ug/kg	39.8	--	1
Aroclor 1260	ND		ug/kg	39.8	--	1
Aroclor 1262	ND		ug/kg	39.8	--	1
Aroclor 1268	ND		ug/kg	39.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	88		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	85		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-16	Date Collected:	04/18/12 16:40
Client ID:	B-SSE-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 01:28	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.9	--	1
Aroclor 1221	ND		ug/kg	37.9	--	1
Aroclor 1232	ND		ug/kg	37.9	--	1
Aroclor 1242	ND		ug/kg	37.9	--	1
Aroclor 1248	ND		ug/kg	37.9	--	1
Aroclor 1254	ND		ug/kg	37.9	--	1
Aroclor 1260	ND		ug/kg	37.9	--	1
Aroclor 1262	ND		ug/kg	37.9	--	1
Aroclor 1268	ND		ug/kg	37.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	90		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	58		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-17	Date Collected:	04/18/12 16:50
Client ID:	B-SSE-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 01:40	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.5	--	1
Aroclor 1221	ND		ug/kg	36.5	--	1
Aroclor 1232	ND		ug/kg	36.5	--	1
Aroclor 1242	ND		ug/kg	36.5	--	1
Aroclor 1248	ND		ug/kg	36.5	--	1
Aroclor 1254	ND		ug/kg	36.5	--	1
Aroclor 1260	ND		ug/kg	36.5	--	1
Aroclor 1262	ND		ug/kg	36.5	--	1
Aroclor 1268	ND		ug/kg	36.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	76		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-18	Date Collected:	04/20/12 09:20
Client ID:	MIP-B-S-3 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 01:53	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	91%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.3	--	1
Aroclor 1221	ND		ug/kg	35.3	--	1
Aroclor 1232	ND		ug/kg	35.3	--	1
Aroclor 1242	ND		ug/kg	35.3	--	1
Aroclor 1248	ND		ug/kg	35.3	--	1
Aroclor 1260	ND		ug/kg	35.3	--	1
Aroclor 1262	ND		ug/kg	35.3	--	1
Aroclor 1268	ND		ug/kg	35.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	81		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	85		30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-18	Date Collected:	04/20/12 09:20
Client ID:	MIP-B-S-3 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 01:53	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	91%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	59.4		ug/kg	35.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	81		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	85		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-19	Date Collected:	04/20/12 09:30
Client ID:	MIP-B-S-3 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 02:05	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	94%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	34.5	--	1
Aroclor 1221	ND		ug/kg	34.5	--	1
Aroclor 1232	ND		ug/kg	34.5	--	1
Aroclor 1242	ND		ug/kg	34.5	--	1
Aroclor 1248	ND		ug/kg	34.5	--	1
Aroclor 1254	78.5		ug/kg	34.5	--	1
Aroclor 1260	ND		ug/kg	34.5	--	1
Aroclor 1262	ND		ug/kg	34.5	--	1
Aroclor 1268	ND		ug/kg	34.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	88		30-150
Decachlorobiphenyl	89		30-150
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	85		30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-20	Date Collected:	04/20/12 09:40
Client ID:	MIP-B-S-3 (10-12')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 02:17	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.8	--	1
Aroclor 1221	ND		ug/kg	35.8	--	1
Aroclor 1232	ND		ug/kg	35.8	--	1
Aroclor 1242	ND		ug/kg	35.8	--	1
Aroclor 1248	ND		ug/kg	35.8	--	1
Aroclor 1254	ND		ug/kg	35.8	--	1
Aroclor 1260	ND		ug/kg	35.8	--	1
Aroclor 1262	ND		ug/kg	35.8	--	1
Aroclor 1268	ND		ug/kg	35.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	93		30-150
Decachlorobiphenyl	95		30-150
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	69		30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-21 D	Date Collected:	04/20/12 10:30
Client ID:	MIP-B-W-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	05/04/12 16:19	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	35900	--	1000
Aroclor 1221	ND		ug/kg	35900	--	1000
Aroclor 1232	ND		ug/kg	35900	--	1000
Aroclor 1242	ND		ug/kg	35900	--	1000
Aroclor 1248	ND		ug/kg	35900	--	1000
Aroclor 1260	ND		ug/kg	35900	--	1000
Aroclor 1262	ND		ug/kg	35900	--	1000
Aroclor 1268	ND		ug/kg	35900	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-21 D	Date Collected:	04/20/12 10:30
Client ID:	MIP-B-W-1 (6-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	05/04/12 16:19	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	319000		ug/kg	35900	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-23 D	Date Collected:	04/20/12 10:50
Client ID:	MIP-B-W-1 (10-12')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	05/03/12 23:00	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	80%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	7920	--	200
Aroclor 1221	ND		ug/kg	7920	--	200
Aroclor 1232	ND		ug/kg	7920	--	200
Aroclor 1242	ND		ug/kg	7920	--	200
Aroclor 1248	ND		ug/kg	7920	--	200
Aroclor 1260	ND		ug/kg	7920	--	200
Aroclor 1262	ND		ug/kg	7920	--	200
Aroclor 1268	ND		ug/kg	7920	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-23 D	Date Collected:	04/20/12 10:50
Client ID:	MIP-B-W-1 (10-12')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	05/03/12 23:00	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	80%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	77100		ug/kg	7920	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID:	L1207064-24	Date Collected:	04/18/12 17:00
Client ID:	B-SSE-X	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	04/25/12 10:40
Analytical Date:	04/30/12 02:54	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	04/28/12
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	04/28/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.2	--	1
Aroclor 1221	ND		ug/kg	36.2	--	1
Aroclor 1232	ND		ug/kg	36.2	--	1
Aroclor 1242	ND		ug/kg	36.2	--	1
Aroclor 1248	ND		ug/kg	36.2	--	1
Aroclor 1254	90.5		ug/kg	36.2	--	1
Aroclor 1260	ND		ug/kg	36.2	--	1
Aroclor 1262	ND		ug/kg	36.2	--	1
Aroclor 1268	ND		ug/kg	36.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	81		30-150
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	68		30-150

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1207064

Report Date: 05/07/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 04/30/12 18:47
Analyst: GT

Extraction Method: EPA 3540C
Extraction Date: 04/25/12 09:50
Cleanup Method1: EPA 3665A
Cleanup Date1: 04/28/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 04/28/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-09,11 Batch: WG531446-1					
Aroclor 1016	ND		ug/kg	32.2	--
Aroclor 1221	ND		ug/kg	32.2	--
Aroclor 1232	ND		ug/kg	32.2	--
Aroclor 1242	ND		ug/kg	32.2	--
Aroclor 1248	ND		ug/kg	32.2	--
Aroclor 1254	ND		ug/kg	32.2	--
Aroclor 1260	ND		ug/kg	32.2	--
Aroclor 1262	ND		ug/kg	32.2	--
Aroclor 1268	ND		ug/kg	32.2	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	85		30-150
Decachlorobiphenyl	75		30-150
2,4,5,6-Tetrachloro-m-xylene	92		30-150
Decachlorobiphenyl	71		30-150

Project Name: NBHS IRA

Project Number: 115058

Lab Number: L1207064

Report Date: 05/07/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 04/30/12 00:14
Analyst: SS

Extraction Method: EPA 3540C
Extraction Date: 04/25/12 10:40
Cleanup Method1: EPA 3665A
Cleanup Date1: 04/28/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 04/28/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 13-21,23-24 Batch: WG531469-1					
Aroclor 1016	ND		ug/kg	32.1	--
Aroclor 1221	ND		ug/kg	32.1	--
Aroclor 1232	ND		ug/kg	32.1	--
Aroclor 1242	ND		ug/kg	32.1	--
Aroclor 1248	ND		ug/kg	32.1	--
Aroclor 1254	ND		ug/kg	32.1	--
Aroclor 1260	ND		ug/kg	32.1	--
Aroclor 1262	ND		ug/kg	32.1	--
Aroclor 1268	ND		ug/kg	32.1	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	77		30-150
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	78		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207064
Report Date: 05/07/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-09,11 Batch: WG531446-2 WG531446-3								
Aroclor 1016	88		81		40-140	8		30
Aroclor 1260	82		75		40-140	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	86		76		30-150
Decachlorobiphenyl	79		71		30-150
2,4,5,6-Tetrachloro-m-xylene	89		90		30-150
Decachlorobiphenyl	73		75		30-150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 13-21,23-24 Batch: WG531469-2 WG531469-3								
Aroclor 1016	51		78		40-140	**42**	Q	30
Aroclor 1260	48		74		40-140	**43**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	54		83		30-150
Decachlorobiphenyl	55		79		30-150
2,4,5,6-Tetrachloro-m-xylene	52		77		30-150
Decachlorobiphenyl	56		79		30-150

INORGANICS
&
MISCELLANEOUS

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-01
Client ID: B-N-1 (6-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:30
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.17		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
Total Organic Carbon (Rep2)	1.42		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
General Chemistry - Westborough Lab										
Solids, Total	69		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-02
Client ID: B-N-1 (8-10')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:35
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-03
Client ID: B-NW-1 (6-6.5')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:45
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	54		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-04
Client ID: B-NW-1 (6.5-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:46
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.102		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
Total Organic Carbon (Rep2)	0.099		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-05
Client ID: B-NW-1 (8-10')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:52
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-06
Client ID: B-NW-1 (10-11.5')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 13:10
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-07
Client ID: B-NE-1 (6-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 13:18
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-08
Client ID: B-NE-1 (8-10')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 13:23
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-09
Client ID: B-NE-1 (10-12')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 13:35
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-11
Client ID: B-E-1 (6-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 14:40
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.066		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
Total Organic Carbon (Rep2)	0.065		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-13
Client ID: B-E-1 (10-12')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 15:00
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-14
Client ID: B-SE-1 (6-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 15:20
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-15
Client ID: B-SE-1 (8-10')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 15:40
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-16
Client ID: B-SSE-1 (6-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 16:40
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-17
Client ID: B-SSE-1 (8-10')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 16:50
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.038		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
Total Organic Carbon (Rep2)	0.039		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-18
Client ID: MIP-B-S-3 (6-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/20/12 09:20
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-19
Client ID: MIP-B-S-3 (8-10')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/20/12 09:30
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-20
Client ID: MIP-B-S-3 (10-12')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/20/12 09:40
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-21
Client ID: MIP-B-W-1 (6-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/20/12 10:30
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-23
Client ID: MIP-B-W-1 (10-12')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/20/12 10:50
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

SAMPLE RESULTS

Lab ID: L1207064-24
Client ID: B-SSE-X
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 17:00
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	04/24/12 20:05	30,2540G	RD

Project Name: NBHS IRA **Lab Number:** L1207064

Project Number: 115058 **Report Date:** 05/07/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 01,04,11,17 Batch: WG531842-1										
Total Organic Carbon (Rep1)	ND		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP
Total Organic Carbon (Rep2)	ND		%	0.010	--	1	-	04/27/12 14:18	1,9060	SP

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01,04,11,17 QC Batch ID: WG531842-4 QC Sample: L1207064-01 Client ID: B-N-1 (6-8')												
Total Organic Carbon (Rep1)	1.17	1.69	2.74	93		-	-		75-125	-		25
Total Organic Carbon (Rep2)	1.42	2.15	3.18	93		-	-		75-125	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 24 QC Batch ID: WG531339-1 QC Sample: L1207075-01 Client ID: DUP Sample						
Solids, Total	62	60	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-09,11,13-21,23 QC Batch ID: WG531347-1 QC Sample: L1207064-01 Client ID: B-N-1 (6-8')						
Solids, Total	69	62	%	11		20
Total Organic Carbon - Mansfield Lab Associated sample(s): 01,04,11,17 QC Batch ID: WG531842-3 QC Sample: L1207064-01 Client ID: B-N-1 (6-8')						
Total Organic Carbon (Rep1)	1.17	1.14	%	3		25
Total Organic Carbon (Rep2)	1.42	1.19	%	18		25

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG531842-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	102		75-125
Total Organic Carbon (Rep2)	110		75-125

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1207064-01A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1207064-01M	Glass 100ml unpreserved split	A	N/A	3.2	Y	Absent	A2-TOC-9060-2REPS(28)
L1207064-02A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-03A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-04A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-04M	Glass 100ml unpreserved split	A	N/A	3.2	Y	Absent	A2-TOC-9060-2REPS(28)
L1207064-05A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-06A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1207064-07A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-08A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-09A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1207064-10A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	HOLD()
L1207064-11A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1207064-11M	Glass 100ml unpreserved split	A	N/A	3.2	Y	Absent	A2-TOC-9060-2REPS(28)
L1207064-12A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	HOLD()
L1207064-13A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-14A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-15A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1207064-16A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-17A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)

*Values in parentheses indicate holding time in days

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207064
Report Date: 05/07/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1207064-17M	Glass 100ml unpreserved split	A	N/A	3.2	Y	Absent	A2-TOC-9060-2REPS(28)
L1207064-18A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1207064-19A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-20A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1207064-21A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1207064-22A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	HOLD()
L1207064-23A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1207064-24A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TS(7),MCP-8082-10-3540C(365),TPH-DRO-D(14)

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1207064
Project Number:	115058	**Report Date:**	05/07/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS IRA	**Lab Number:**	L1207064
Project Number:	115058	**Report Date:**	05/07/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA **Lab Number:** L1207064
Project Number: 115058 **Report Date:** 05/07/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

Certificate/Approval Program Summary

Last revised January 30, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020, 9050A. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 7474, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A,6020A,245.7,9040B,SM4500H-B. Organic Parameters: EPA 3510C,3640A,3660B,3665A,8270C,8270D,8082A,8081B.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab:

ALPHA Job #:

ALPHA ANALYTICAL
WESTBORO, MA TEL 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC

Address: 650 SUFFOLK ST. LOWELL MA.

Phone: 978-970-5600 617-462-8090

Fax:

Email: ALEONARD@TRCSOLUTIONS.COM, DSULLIVAN

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: N3HS IRA

Project Location: NEW BEDFORD MA.

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA Criteria MCP.

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

E = EXTRACT & HOLD H = HOLD ✓ = ANALYZE !

Please save all unused sample volumes to return to TRC

ANALYSIS: TPH-DRO-D; PCBs-3540C-8082

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH	PCBs	TOC	Sample Specific Comments	TOTAL # BOTTLES
	B-N-1	(6-8')	4/18	12 30	S	JF	✓	✓	✓	1
	B-N-1	(8-10')	4/18	12 35	S	JF	H	✓		1
	B-NW-1	(6-6.5')	4/18	12 45	S	JF	H	✓		1
	B-NW-1	(6.5-8')	4/18	12 46	S	JF	H	✓	✓	1
	B-NW-1	(8-10')	4/18	12 52	S	JF	H	✓		1
	B-NW-1	(10-11.5')	4/18	13 10	S	JF	✓	✓		1
	B-NE-1	(6-8')	4/18	13 18	S	JF	H	✓		1
	B-NE-1	(8-10')	4/18	13 23	S	JF	H	✓		1
	B-NE-1	(10-12')	4/18	13 35	S	JF	✓	✓		1
	B-E-1	(4-6')	4/18	14:30	S	JF	H	H		1

Container Type A A A
Preservative A A A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/23		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO. 01-01 (rev. 1-Jan 2010)

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #:

Client Information

Client: TRC

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978-970-5600
617-462-8080

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA. Criteria MCP.

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

Please save all unused sample volumes to return to TRC

ANALYSIS: TPH-DRO-D; PCBs-3540C-8082; TPH; PCB; TOC

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH	PCB	TOC	Sample Specific Comments	TOTAL # BOTTLES
	B-E-1 (6-8')	4/18	14:40	S	JF	✓	✓	✓		1
	B-E-1 (8-10')	4/18	14:50	S	JF	H ~~✓~~	H ~~✓~~		(HOLD)	1
	B-E-1 (10-12')	4/18	15:00	S	JF	H	✓			1
	B-SE-1 (6-8')	4/18	15:20	S	JF	H	✓			1
	B-SE-1 (8-10')	4/18	15:40	S	JF	✓	✓			1
	B-SSE-1 (6-8')	4/18	16:40	S	JF	H	✓			1
	B-SSE-1 (8-10')	4/18	16:50	S	JF	✓	✓	✓		1
	MIP-B-S-3 (6-8')	4/20	9:20	S	JF	✓	✓			1
	MIP B S-3 (8-10')	4/20	9:30	S	JF	H	✓			1
	MIP-B S 3 (10-12')	4/20	9:40	S	JF	✓	✓			1

Container Type	A	A	A
Preservative	A	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jana C. Fico	4/23		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 11-2010)

MANSFIELD CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab:

ALPHA Job #:

ALPHA ANALYTICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: TRC

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978 970-5600
617-462-8090

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA	MCP.

Other Project Specific Requirements/Comments/Detection Limits:

Please save all unused sample volumes to return to TRC

PLEASE NOTE

MS/MSD (at unit cost) will be omitted unless you check here: ☐

ANALYSIS: TPH-DRO-D; PCBs-3540C-8082

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH	PCB	Sample Specific Comments	Total # Bottles
	MIP B W-1 (6-8')	4/20	10:30	S	JF	✓	✓		1
	MIP B W-1 (8-10')	4/20	10:40	S	JF	H	H		1
	MIP B W-1 (10-12')	4/20	10:50	S	JF	H	✓		1
	B SSE-X	4/18	17 00	S	JF	✓	✓		1

Container Type	A	A
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/23		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO. 06-02 (rev. 17-SEP-10)

CHAIN OF CUSTODY

PAGE 1 OF 3

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/23/12

ALPHA Job #: L1207064

Client Information

Client: TRC

Address: 650 SUFFOLK ST. LOWELL MA.

Phone: 978-970-5600 617-462-8090

Fax:

Email: ALEONARD@TRCSOLUTIONS.COM. DSULLIVAN

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA.

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA. Criteria MCP.

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

E = EXTRACT & HOLD H = HOLD ✓ = ANALIZE !

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH	PCBs	TOC	Sample Specific Comments	Total # Bottles
7064.1	B-N-1 (6-8')	4/18	12:30	S	JF	✓	✓	✓		1
2	B-N-1 (8-10')	4/18	12:35	S	JF	✓	E			1
3	B-NW-1 (6-6.5')	4/18	12:45	S	JF	✓	✓			1
4	B-NW-1 (6.5-8')	4/18	12:46	S	JF	✓	✓	✓		1
5	B-NW-1 (8-10')	4/18	12:52	S	JF	E	E			1
6	B-NW-1 (10-12.5')	4/18	13:10	S	JF	✓	✓			1
7	B-NE-1 (6-8')	4/18	13:18	S	JF	H	H			1
8	B-NE-1 (8-10')	4/18	13:23	S	JF	✓	E			1
9	B-NE-1 (10-12')	4/18	13:35	S	JF	✓	✓			1
10	B-E-1 (4-6')	4/18	14:30	S	JF	H	H			1
	Container Type					A	A	A		
	Preservative					A	A	A		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jason C. Fico	4/23 1130	MCM	4/23/12 1130
MCM	4/23/12 1200	[illegible]	4/23/12 1200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 4/23/12

ALPHA Job #: L1207064

ALPHA ANALYTICAL
WESTBORO, MA TEL.: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL.: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978-970-5600 617-462-8090
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM ALEONARD
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD MA.
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA. Criteria MCP.

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH	PCB	TOC									Sample Specific Comments	TOTAL # BOTTLES
07064.11	B-E-1 (6-8')	4/18	14:40	S	JF	✓	✓	✓										1
12	B-E-1 (8-10')	4/18	14:50	S	JF	H ~~✓~~	H ~~✓~~										(HOLD)	1
13	B-E-1 (10-12')	4/18	15:00	S	JF	✓	E											1
14	B-SE-1 (6-8')	4/18	15:20	S	JF	H	H											1
15	B-SE-1 (8-10')	4/18	15:40	S	JF	✓	E											1
16	B-SSE-1 (6-8')	4/18	16:40	S	JF	E	E											1
17	B-SSE-1 (8-10')	4/18	16:50	S	JF	✓	✓	✓										1
18	MIP-B-S-3 (6-8')	4/20	9:20	S	JF	✓	✓											1
19	MIP-B-S-3 (8-10')	4/20	9:30	S	JF	H	H											1
20	MIP-B-S-3 (10-12')	4/20	9:40	S	JF	✓	E											1
	Container Type					A	A	A										
	Preservative					A	A	A										

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Laura C. Fuico	4/23 1130	MCM	4/23/12 1130
MCM	4/23/12 1200	[illegible]	4/23/12 1200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

MANSFIELD CHAIN OF CUSTODY

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/23/12

ALPHA Job #: L1207064

Client Information

Client: TRC
Address: 650 SUFFOLK ST.
LOWELL MA
Phone: 978-970-5600
617-462-8090
Fax:
Email: DSULLIVAN ALEONARD@TRCSOLUTIONS.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD MA.
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA	MCP.

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH	PCB										Sample Specific Comments	Total # Bottles
7064.21	MIP-B-W-1 (6-8')	4/20	10:30	S	JF	✓	✓											1
22	MIP-B-W-1 (8-10')	4/20	10:40	S	JF	H	H											1
23	MIP-B-W-1 (10-12')	4/20	10:50	S	JF	✓	E											1
24	B-SSE-X	4/18	17:00	S	JF	✓	✓											1

Container Type	A	A
Preservation	A	A

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
James C. Fine	4/23 1130	[illegible]	4/23/12 1130
[illegible]	4/23/12 1200	[illegible]	4/23/12 1200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

Revised COC 4/23/12

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd In Lab:

ALPHA Job #: L1207064

ALPHA ANALYTICAL

WESTBORO, MA TEL. 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL. 508-822-9300 FAX: 508-822-3288

Serial_No:05215:08

Client Information

Client: TRC

Address: 650 SUFFOLK ST LOWELL MA.

Phone: 978-970-5600 617-462-8090

Fax:

Email: ALEONARD@TRCSOLUTIONS.COM DSULLIVAN

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA Criteria MCP.

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed. (Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

E = EXTRACT & HOLD H = HOLD ✓ = ANALYZE !

Please save all unused sample volumes to return to TRC

ANALYSIS: TPH-DRO-D; PCBs-3540C-8082

SAMPLE HANDLING

Filtration ☐ Done ☐ Not needed ☐ Lab to do

Preservation ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH	PCBs	TCL	Sample Specific Comments	TOTAL # BOTTLES
7064 1	B-N-1 (6-8')	4/18	12 30	S	JF	✓	✓	✓		1
2	B-N-1 (8-10')	4/18	12 35	S	JF	H	✓			1
3	B-NW-1 (6-6.5')	4/18	12 45	S	JF	H	✓			1
4	B-NW-1 (6.5-8')	4/18	12 46	S	JF	H	✓	✓		1
5	B-NW-1 (8-10')	4/18	12 52	S	JF	H	✓			1
6	B-NW-1 (10-12')	4/18	13 10	S	JF	✓	✓			1
7	B-NE-1 (6-8')	4/18	13 18	S	JF	H	✓			1
8	B-NE-1 (8-10')	4/18	13 23	S	JF	H	✓			1
9	B-NE-1 (10-12')	4/18	13 35	S	JF	✓	✓			1
10	B-E-1 (4-6')	4/18	14:30	S	JF	H	H			1

Container Type	A	A	A
Preservative	A	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/23	[signature]	4/23/12 1200
[signature]	4/24/12 1200	[signature]	4/25/12 7:55

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO. 01-01 (rev. 18 Jan 2010)

Revised COC 4/23/12

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Serial_No:050815:08

Date Rec'd in Lab:

ALPHA Job #: L1207064

Client Information

Client: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978-770-5600
617-462-8040
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM
AMCNARY

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA
Project Location: NEW BEDFORD MA
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA Criteria MCP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

Please save all unused sample volumes to return to TRC

ANALYSIS: TPH-DRO-D; PCBs-3540C-8082; TOC

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH-DRO-D	PCBs-3540C-8082	TOC	Sample Specific Comments	Total # Bottles
7064.11	B-E-1 (6-8')	4/18	14:40	S	JF	✓	✓	✓		1
12	B-E-1 (8-10')	4/18	14:50	S	JF	H	H	H	(HOLD)	1
13	B-E-1 (10-12')	4/18	15:00	S	JF	H	✓			1
14	B-SE-1 (6-8')	4/18	15:20	S	JF	✓	✓			1
15	B-SE-1 (8-10')	4/18	15:40	S	JF	✓	✓			1
16	B-SSE-1 (6-8')	4/18	16:40	S	JF	H	✓			1
17	B-SSE-1 (8-10')	4/18	16:50	S	JF	✓	✓	✓		1
18	MIP-B S-3 (6-8')	4/20	9:20	S	JF	✓	✓			1
19	MIP B S-3 (8-10')	4/20	9:30	S	JF	✓	✓			1
20	MIP-B S 3 (10-12')	4/20	9:40	S	JF	✓	✓			1
					Container Type	A	A	A		
					Preservative	A	A	A		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	4/23	[illegible]	4/23/12 1200
[illegible]	4/24/12 1200	[illegible]	4/25/12 7155

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev 16-Jan-2010)

ANALYTICAL REPORT

Lab Number:	L1207061
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	05/16/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1207061-01	MIP B-S-3 (7')	NEW BEDFORD, MA	04/20/12 09:15
L1207061-02	MIP B-W-1 (7')	NEW BEDFORD, MA	04/20/12 10:25
L1207061-03	TRIP BLANK	NEW BEDFORD, MA	04/20/12 00:00

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: NBHS IRA **Lab Number:** L1207061
Project Number: 115058 **Report Date:** 05/16/12

Case Narrative (continued)

Report Submission

This report replaces the report issued May 1, 2012. The Client ID for L1207061-01 has been changed.

MCP Related Narratives

Volatile Organics

In reference to question H:

The WG532360-1/-2 LCS/LCSD recoveries, associated with L1207061-01, are above the acceptance criteria for Acetone (135%/133%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated sample are reported; however, all positive detects are considered to have a potentially high bias for this compound.

The initial calibrations, associated with L1207061-01, -02, and -03, did not meet the method required minimum response factors on the lowest calibration standard for 1,4-Dioxane (0.00400), as well as the average response factors for 1,4-Dioxane.

The continuing calibration standards, associated with L1207061-01, -02, and -03, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as addenda to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 05/16/12

ORGANICS

VOLATILES

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID:	L1207061-01	Date Collected:	04/20/12 09:15
Client ID:	MIP B-S-3 (7')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/28/12 12:58		
Analyst:	JL		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.7	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.77	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.77	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.77	--	1
Chlorobenzene	ND		ug/kg	0.77	--	1
Trichlorofluoromethane	ND		ug/kg	3.1	--	1
1,2-Dichloroethane	ND		ug/kg	0.77	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	--	1
Bromodichloromethane	ND		ug/kg	0.77	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.77	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	--	1
1,1-Dichloropropene	ND		ug/kg	3.1	--	1
Bromoform	ND		ug/kg	3.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	--	1
Benzene	ND		ug/kg	0.77	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	0.77	--	1
Chloromethane	ND		ug/kg	3.1	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	4.2		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.77	--	1
trans-1,2-Dichloroethene	1.9		ug/kg	1.2	--	1
Trichloroethene	9.8		ug/kg	0.77	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	--	1

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID: L1207061-01 Date Collected: 04/20/12 09:15

Client ID: MIP B-S-3 (7') Date Received: 04/23/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	27		ug/kg	0.77	--	1
Dibromomethane	ND		ug/kg	3.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	--	1
Styrene	ND		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	7.7	--	1
Acetone	ND		ug/kg	28	--	1
Carbon disulfide	ND		ug/kg	3.1	--	1
2-Butanone	ND		ug/kg	7.7	--	1
4-Methyl-2-pentanone	ND		ug/kg	7.7	--	1
2-Hexanone	ND		ug/kg	7.7	--	1
Bromochloromethane	ND		ug/kg	3.1	--	1
Tetrahydrofuran	ND		ug/kg	3.1	--	1
2,2-Dichloropropane	ND		ug/kg	3.8	--	1
1,2-Dibromoethane	ND		ug/kg	3.1	--	1
1,3-Dichloropropane	ND		ug/kg	3.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.77	--	1
Bromobenzene	ND		ug/kg	3.8	--	1
n-Butylbenzene	ND		ug/kg	0.77	--	1
sec-Butylbenzene	ND		ug/kg	0.77	--	1
tert-Butylbenzene	ND		ug/kg	3.1	--	1
o-Chlorotoluene	ND		ug/kg	3.1	--	1
p-Chlorotoluene	ND		ug/kg	3.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	3.1	--	1
Isopropylbenzene	ND		ug/kg	0.77	--	1
p-Isopropyltoluene	ND		ug/kg	0.77	--	1
Naphthalene	ND		ug/kg	3.1	--	1
n-Propylbenzene	ND		ug/kg	0.77	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	--	1
Ethyl ether	ND		ug/kg	3.8	--	1
Isopropyl Ether	ND		ug/kg	3.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.1	--	1

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID:	L1207061-01	Date Collected:	04/20/12 09:15
Client ID:	MIP B-S-3 (7')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	31	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID:	L1207061-02	Date Collected:	04/20/12 10:25
Client ID:	MIP B-W-1 (7')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/27/12 05:38		
Analyst:	JL		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.71	--	1
1,2-Dichloropropane	ND		ug/kg	2.5	--	1
Dibromochloromethane	ND		ug/kg	0.71	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.71	--	1
Chlorobenzene	4.0		ug/kg	0.71	--	1
Trichlorofluoromethane	ND		ug/kg	2.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.71	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	--	1
Bromodichloromethane	ND		ug/kg	0.71	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.71	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.71	--	1
1,1-Dichloropropene	ND		ug/kg	2.8	--	1
Bromoform	ND		ug/kg	2.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.71	--	1
Benzene	ND		ug/kg	0.71	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	2.2		ug/kg	0.71	--	1
Chloromethane	ND		ug/kg	2.8	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	2.0		ug/kg	1.4	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.71	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.71	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	--	1
1,4-Dichlorobenzene	14		ug/kg	2.8	--	1

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID: L1207061-02 Date Collected: 04/20/12 10:25

Client ID: MIP B-W-1 (7') Date Received: 04/23/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	1.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.71	--	1
Dibromomethane	ND		ug/kg	2.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	--	1
Styrene	ND		ug/kg	1.4	--	1
Dichlorodifluoromethane	ND		ug/kg	7.1	--	1
Acetone	ND		ug/kg	26	--	1
Carbon disulfide	ND		ug/kg	2.8	--	1
2-Butanone	ND		ug/kg	7.1	--	1
4-Methyl-2-pentanone	ND		ug/kg	7.1	--	1
2-Hexanone	ND		ug/kg	7.1	--	1
Bromochloromethane	ND		ug/kg	2.8	--	1
Tetrahydrofuran	ND		ug/kg	2.8	--	1
2,2-Dichloropropane	ND		ug/kg	3.5	--	1
1,2-Dibromoethane	ND		ug/kg	2.8	--	1
1,3-Dichloropropane	ND		ug/kg	2.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.71	--	1
Bromobenzene	ND		ug/kg	3.5	--	1
n-Butylbenzene	ND		ug/kg	0.71	--	1
sec-Butylbenzene	ND		ug/kg	0.71	--	1
tert-Butylbenzene	ND		ug/kg	2.8	--	1
o-Chlorotoluene	ND		ug/kg	2.8	--	1
p-Chlorotoluene	ND		ug/kg	2.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	2.8	--	1
Isopropylbenzene	ND		ug/kg	0.71	--	1
p-Isopropyltoluene	ND		ug/kg	0.71	--	1
Naphthalene	ND		ug/kg	2.8	--	1
n-Propylbenzene	ND		ug/kg	0.71	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	--	1
1,2,4-Trichlorobenzene	12		ug/kg	2.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	--	1
Ethyl ether	ND		ug/kg	3.5	--	1
Isopropyl Ether	ND		ug/kg	2.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.8	--	1

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID:	L1207061-02	Date Collected:	04/20/12 10:25
Client ID:	MIP B-W-1 (7')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	28	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID:	L1207061-03	Date Collected:	04/20/12 00:00
Client ID:	TRIP BLANK	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	04/27/12 06:05		
Analyst:	JL		
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	--	1
1,1-Dichloroethane	ND		ug/kg	1.5	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	3.5	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	--	1
Tetrachloroethene	ND		ug/kg	1.0	--	1
Chlorobenzene	ND		ug/kg	1.0	--	1
Trichlorofluoromethane	ND		ug/kg	4.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	--	1
Bromodichloromethane	ND		ug/kg	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
1,1-Dichloropropene	ND		ug/kg	4.0	--	1
Bromoform	ND		ug/kg	4.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--	1
Benzene	ND		ug/kg	1.0	--	1
Toluene	ND		ug/kg	1.5	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.0	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	2.0	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1
Trichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	--	1

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID: L1207061-03 Date Collected: 04/20/12 00:00

Client ID: TRIP BLANK Date Received: 04/23/12

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	ND		ug/kg	2.0	--	1
o-Xylene	ND		ug/kg	2.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	4.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.0	--	1
Styrene	ND		ug/kg	2.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	ND		ug/kg	36	--	1
Carbon disulfide	ND		ug/kg	4.0	--	1
2-Butanone	ND		ug/kg	10	--	1
4-Methyl-2-pentanone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	4.0	--	1
Tetrahydrofuran	ND		ug/kg	4.0	--	1
2,2-Dichloropropane	ND		ug/kg	5.0	--	1
1,2-Dibromoethane	ND		ug/kg	4.0	--	1
1,3-Dichloropropane	ND		ug/kg	4.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--	1
Bromobenzene	ND		ug/kg	5.0	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	4.0	--	1
o-Chlorotoluene	ND		ug/kg	4.0	--	1
p-Chlorotoluene	ND		ug/kg	4.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--	1
Hexachlorobutadiene	ND		ug/kg	4.0	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.0	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--	1
Ethyl ether	ND		ug/kg	5.0	--	1
Isopropyl Ether	ND		ug/kg	4.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--	1

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

SAMPLE RESULTS

Lab ID:	L1207061-03	Date Collected:	04/20/12 00:00
Client ID:	TRIP BLANK	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	40	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 02-03 Batch: WG532226-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 02-03 Batch: WG532226-3					
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
2-Butanone	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/26/12 20:13
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 02-03 Batch: WG532226-3					
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
Ethyl ether	ND		ug/kg	5.0	--
Isopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/28/12 12:31
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01 Batch: WG532360-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/28/12 12:31
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01 Batch: WG532360-3					
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
2-Butanone	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 04/28/12 12:31
Analyst: JL

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01 Batch: WG532360-3					
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
Ethyl ether	ND		ug/kg	5.0	--
Isopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG532226-1 WG532226-2								
Methylene chloride	99		92		70-130	7		20
1,1-Dichloroethane	103		95		70-130	8		20
Chloroform	97		90		70-130	7		20
Carbon tetrachloride	96		88		70-130	9		20
1,2-Dichloropropane	101		98		70-130	3		20
Dibromochloromethane	95		90		70-130	5		20
1,1,2-Trichloroethane	97		92		70-130	5		20
Tetrachloroethene	97		88		70-130	10		20
Chlorobenzene	99		92		70-130	7		20
Trichlorofluoromethane	101		94		70-130	7		20
1,2-Dichloroethane	97		95		70-130	2		20
1,1,1-Trichloroethane	97		89		70-130	9		20
Bromodichloromethane	97		93		70-130	4		20
trans-1,3-Dichloropropene	99		92		70-130	7		20
cis-1,3-Dichloropropene	97		93		70-130	4		20
1,1-Dichloropropene	96		88		70-130	9		20
Bromoform	101		96		70-130	5		20
1,1,2,2-Tetrachloroethane	103		96		70-130	7		20
Benzene	98		91		70-130	7		20
Toluene	100		92		70-130	8		20
Ethylbenzene	98		91		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG532226-1 WG532226-2								
Chloromethane	93		82		70-130	13		20
Bromomethane	101		91		70-130	10		20
Vinyl chloride	96		86		70-130	11		20
Chloroethane	118		106		70-130	11		20
1,1-Dichloroethene	91		87		70-130	4		20
trans-1,2-Dichloroethene	95		88		70-130	8		20
Trichloroethene	96		91		70-130	5		20
1,2-Dichlorobenzene	104		96		70-130	8		20
1,3-Dichlorobenzene	104		95		70-130	9		20
1,4-Dichlorobenzene	105		96		70-130	9		20
Methyl tert butyl ether	95		90		70-130	5		20
p/m-Xylene	99		91		70-130	8		20
o-Xylene	97		90		70-130	7		20
cis-1,2-Dichloroethene	96		90		70-130	6		20
Dibromomethane	92		88		70-130	4		20
1,2,3-Trichloropropane	108		96		70-130	12		20
Styrene	97		90		70-130	7		20
Dichlorodifluoromethane	85		76		70-130	11		20
Acetone	122		114		70-130	7		20
Carbon disulfide	91		83		70-130	9		20
2-Butanone	103		99		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG532226-1 WG532226-2								
4-Methyl-2-pentanone	90		90		70-130	0		20
2-Hexanone	98		92		70-130	6		20
Bromochloromethane	96		92		70-130	4		20
Tetrahydrofuran	100		93		70-130	7		20
2,2-Dichloropropane	98		91		70-130	7		20
1,2-Dibromoethane	95		90		70-130	5		20
1,3-Dichloropropane	97		92		70-130	5		20
1,1,1,2-Tetrachloroethane	98		92		70-130	6		20
Bromobenzene	105		98		70-130	7		20
n-Butylbenzene	106		94		70-130	12		20
sec-Butylbenzene	106		95		70-130	11		20
tert-Butylbenzene	106		96		70-130	10		20
o-Chlorotoluene	107		97		70-130	10		20
p-Chlorotoluene	108		98		70-130	10		20
1,2-Dibromo-3-chloropropane	98		91		70-130	7		20
Hexachlorobutadiene	102		90		70-130	13		20
Isopropylbenzene	108		99		70-130	9		20
p-Isopropyltoluene	104		94		70-130	10		20
Naphthalene	97		89		70-130	9		20
n-Propylbenzene	108		98		70-130	10		20
1,2,3-Trichlorobenzene	104		94		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG532226-1 WG532226-2								
1,2,4-Trichlorobenzene	103		92		70-130	11		20
1,3,5-Trimethylbenzene	107		98		70-130	9		20
1,2,4-Trimethylbenzene	106		96		70-130	10		20
Ethyl ether	84		81		70-130	4		20
Isopropyl Ether	111		106		70-130	5		20
Ethyl-Tert-Butyl-Ether	100		95		70-130	5		20
Tertiary-Amyl Methyl Ether	95		89		70-130	7		20
1,4-Dioxane	89		85		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		100		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01 Batch: WG532360-1 WG532360-2								
Methylene chloride	97		96		70-130	1		20
1,1-Dichloroethane	93		94		70-130	1		20
Chloroform	88		89		70-130	1		20
Carbon tetrachloride	92		90		70-130	2		20
1,2-Dichloropropane	94		97		70-130	3		20
Dibromochloromethane	92		94		70-130	2		20
1,1,2-Trichloroethane	86		88		70-130	2		20
Tetrachloroethene	90		88		70-130	2		20
Chlorobenzene	89		89		70-130	0		20
Trichlorofluoromethane	100		96		70-130	4		20
1,2-Dichloroethane	99		103		70-130	4		20
1,1,1-Trichloroethane	92		90		70-130	2		20
Bromodichloromethane	96		96		70-130	0		20
trans-1,3-Dichloropropene	87		90		70-130	3		20
cis-1,3-Dichloropropene	88		92		70-130	4		20
1,1-Dichloropropene	84		82		70-130	2		20
Bromoform	98		101		70-130	3		20
1,1,2,2-Tetrachloroethane	89		94		70-130	5		20
Benzene	87		86		70-130	1		20
Toluene	86		85		70-130	1		20
Ethylbenzene	88		87		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01 Batch: WG532360-1 WG532360-2								
Chloromethane	92		90		70-130	2		20
Bromomethane	99		93		70-130	6		20
Vinyl chloride	82		81		70-130	1		20
Chloroethane	99		94		70-130	5		20
1,1-Dichloroethene	80		81		70-130	1		20
trans-1,2-Dichloroethene	82		80		70-130	2		20
Trichloroethene	90		89		70-130	1		20
1,2-Dichlorobenzene	93		96		70-130	3		20
1,3-Dichlorobenzene	94		95		70-130	1		20
1,4-Dichlorobenzene	95		95		70-130	0		20
Methyl tert butyl ether	87		89		70-130	2		20
p/m-Xylene	89		88		70-130	1		20
o-Xylene	88		87		70-130	1		20
cis-1,2-Dichloroethene	87		88		70-130	1		20
Dibromomethane	90		92		70-130	2		20
1,2,3-Trichloropropane	89		93		70-130	4		20
Styrene	89		89		70-130	0		20
Dichlorodifluoromethane	74		74		70-130	0		20
Acetone	**135**	Q	**133**	Q	70-130	1		20
Carbon disulfide	74		73		70-130	1		20
2-Butanone	107		113		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01 Batch: WG532360-1 WG532360-2								
4-Methyl-2-pentanone	91		96		70-130	5		20
2-Hexanone	98		102		70-130	4		20
Bromochloromethane	94		94		70-130	0		20
Tetrahydrofuran	104		107		70-130	3		20
2,2-Dichloropropane	90		88		70-130	2		20
1,2-Dibromoethane	87		89		70-130	2		20
1,3-Dichloropropane	86		88		70-130	2		20
1,1,1,2-Tetrachloroethane	94		94		70-130	0		20
Bromobenzene	97		99		70-130	2		20
n-Butylbenzene	87		86		70-130	1		20
sec-Butylbenzene	89		88		70-130	1		20
tert-Butylbenzene	92		93		70-130	1		20
o-Chlorotoluene	92		93		70-130	1		20
p-Chlorotoluene	93		93		70-130	0		20
1,2-Dibromo-3-chloropropane	85		91		70-130	7		20
Hexachlorobutadiene	91		87		70-130	4		20
Isopropylbenzene	92		92		70-130	0		20
p-Isopropyltoluene	91		90		70-130	1		20
Naphthalene	86		87		70-130	1		20
n-Propylbenzene	91		91		70-130	0		20
1,2,3-Trichlorobenzene	95		97		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01 Batch: WG532360-1 WG532360-2								
1,2,4-Trichlorobenzene	95		93		70-130	2		20
1,3,5-Trimethylbenzene	94		92		70-130	2		20
1,2,4-Trimethylbenzene	92		92		70-130	0		20
Ethyl ether	74		73		70-130	1		20
Isopropyl Ether	112		115		70-130	3		20
Ethyl-Tert-Butyl-Ether	97		99		70-130	2		20
Tertiary-Amyl Methyl Ether	86		89		70-130	3		20
1,4-Dioxane	84		90		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		105		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	96		100		70-130
Dibromofluoromethane	97		99		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID: L1207061-01
Client ID: MIP B-S-3 (7')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/20/12 09:15
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	04/24/12 00:20	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID: L1207061-02
Client ID: MIP B-W-1 (7')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/20/12 10:25
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	04/24/12 00:20	30,2540G	RD

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG531063-1 QC Sample: L1206910-06 Client ID: DUP Sample						
Solids, Total	82	80	%	2		20

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207061
Report Date: 05/16/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/20/2012 22:56

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1207061-01A	Vial MeOH preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)
L1207061-01B	Vial water preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)
L1207061-01C	Vial water preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)
L1207061-01D	Plastic 2oz unpreserved for TS	A	N/A	6	Y	Absent	TS(7)
L1207061-02A	Vial MeOH preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)
L1207061-02B	Vial water preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)
L1207061-02C	Vial water preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)
L1207061-02D	Plastic 2oz unpreserved for TS	A	N/A	6	Y	Absent	TS(7)
L1207061-03A	Vial MeOH preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)
L1207061-03B	Vial water preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)
L1207061-03C	Vial water preserved	A	N/A	6	Y	Absent	MCP-8260HLW-10(14)

Container Comments

L1207061-02C

*Values in parentheses indicate holding time in days

Project Name: NBHS IRA **Lab Number:** L1207061

Project Number: 115058 **Report Date:** 05/16/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS IRA	**Lab Number:**	L1207061
Project Number:	115058	**Report Date:**	05/16/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA **Lab Number:** L1207061
Project Number: 115058 **Report Date:** 05/16/12

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised May 11, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D, Fecal Coliform-EC Medium 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterolert, E.Coli 9223.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics, Acid Extractables (Phenols), Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8081B, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C,6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8270C, 8270D, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 3005A, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B, 8015B, 8015C.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 4/23/12

ALPHA Job #: L1207661

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978 970 5600
617 462 8090

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA

Project #: 115058

Project Manager:

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State /Fed Program MA Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: VOCs HI/LOW B/SOIL

SAMPLE HANDLING
Filtration
☐ Done
☑ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs HI/LOW	B/SOIL	Sample Specific Comments	TOTAL # BOTTLES
02001.1	MIP B-S-3 (7')	4/20	9:15	S	JF	✓	✓	22 ppm	4
.2	MIP B-W-1 (7')	4/20	10:25	S	JF	✓	✓	125 ppm	4
.3	TRIP BLANK					✓			3

Container Type	V	P
Preservative	P/O	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jenna C. Fino	4/20/12 2155	Sean Pires	4/20/12 2155
[illegible]	4/23/12	SP 4/20/12 [illegible]	4/23/12 1050
[illegible]	4/23/12 1200	[illegible]	4/23/12 1200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:05161216:43

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1207061

Instrument ID: Voa100.i Calibration Date: 28-APR-2012 Time: 11:37

Lab File ID: 0428A01 Init. Calib. Date(s): 27-MAR-2 27-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 16:05 18:47

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.35868	.26704	.1	26	20	F
chloromethane	.75095	.6893	.1	8	20	
vinyl chloride	.44781	.36889	.1	18	20	
bromomethane	100	98.752	.1	1	20	
chloroethane	100	98.649	.1	1	20	
trichlorofluoromethane	.41712	.4193	.1	-1	20	
ethyl ether	.18586	.13795	.05	26	20	F
1,1,-dichloroethene	.29565	.23781	.1	20	20	
carbon disulfide	.97013	.7154	.1	26	20	F
methylene chloride	.3159	.30627	.1	3	20	
acetone	100	135	.1	-35	20	F
trans-1,2-dichloroethene	.33771	.27753	.1	18	20	
methyl tert butyl ether	.92079	.80315	.1	13	20	
Diisopropyl Ether	1.805	2.0294	.05	-12	20	
1,1-dichloroethane	.72853	.67752	.2	7	20	
Ethyl-Tert-Butyl-Ether	1.5317	1.4873	.05	3	20	
cis-1,2-dichloroethene	.35551	.30846	.1	13	20	
2,2-dichloropropane	.478	.43017	.05	10	20	
bromochloromethane	.16878	.1589	.05	6	20	
chloroform	.61614	.53995	.2	12	20	
carbontetrachloride	.48398	.44737	.1	8	20	
tetrahydrofuran	.18705	.19364	.05	-4	20	
1,1,1-trichloroethane	.53236	.48959	.1	8	20	
2-butanone	.26359	.28333	.1	-7	20	
1,1-dichloropropene	.42968	.35905	.05	16	20	
benzene	1.1694	1.0161	.5	13	20	
Tertiary-Amyl Methyl Ether	.87901	.75863	.05	14	20	
1,2-dichloroethane	.58261	.57664	.1	1	20	
trichloroethene	.34587	.30976	.2	10	20	
dibromomethane	.20047	.17981	.05	10	20	
1,2-dichloropropane	.40516	.38131	.1	6	20	
bromodichloromethane	.44238	.42387	.2	4	20	
1,4-dioxane	.0043	.00291	.05	32	20	F
cis-1,3-dichloropropene	.50276	.44374	.2	12	20	
toluene	100	86.455	.4	14	20	
4-methyl-2-pentanone	.20653	.18723	.1	9	20	
tetrachloroethene	.48723	.43827	.2	10	20	
trans-1,3-dichloropropene	.64019	.55986	.1	13	20	

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1207061

Instrument ID: Voa100.i Calibration Date: 28-APR-2012 Time: 11:37

Lab File ID: 0428A01 Init. Calib. Date(s): 27-MAR-2 27-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 16:05 18:47

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.31203	.26912	.1	14	20
chlorodibromomethane	.49599	.45694	.1	8	20
1,3-dichloropropane	.63012	.54224	.05	14	20
1,2-dibromoethane	.41703	.36394	.1	13	20
2-hexanone	.58647	.57509	.1	2	20
chlorobenzene	1.1951	1.0670	.5	11	20
ethyl benzene	1.9421	1.6990	.1	13	20
1,1,1,2-tetrachloroethane	.46189	.4331	.05	6	20
p/m xylene	.77269	.68504	.1	11	20
o xylene	.75467	.66174	.3	12	20
styrene	1.2199	1.0813	.3	11	20
bromoform	.60059	.59094	.1	2	20
isopropylbenzene	3.3996	3.1377	.1	8	20
bromobenzene	.89586	.86897	.05	3	20
n-propylbenzene	3.8680	3.5282	.05	9	20
1,1,2,2,-tetrachloroethane	.90538	.80309	.3	11	20
2-chlorotoluene	2.6167	2.4128	.05	8	20
1,3,5-trimethybenzene	2.8530	2.6701	.05	6	20
1,2,3-trichloropropane	.74467	.65991	.05	11	20
4-chorotoluene	2.4739	2.3029	.05	7	20
tert-butylbenzene	2.6033	2.3939	.05	8	20
1,2,4-trimethylbenzene	2.8883	2.6522	.05	8	20
sec-butylbenzene	3.6910	3.2989	.05	11	20
p-isopropyltoluene	3.2694	2.966	.05	9	20
1,3-dichlorobenzene	1.7443	1.6472	.6	6	20
1,4-dichlorobenzene	1.7899	1.6972	.5	5	20
n-butylbenzene	2.8911	2.5065	.05	13	20
1,2-dichlorobenzene	1.6490	1.5410	.4	7	20
1,2-dibromo-3-chloropropane	.19138	.16316	.05	15	20
hexachlorobutadiene	.61384	.55586	.05	9	20
1,2,4-trichlorobenzene	1.1996	1.1360	.2	5	20
naphthalene	3.2877	2.8178	.05	14	20
1,2,3-trichlorobenzene	1.1147	1.0624	.05	5	20
dibromofluoromethane	.27899	.27125	.05	3	30
1,2-dichloroethane-d4	.34583	.35587	.05	-3	30
toluene-d8	1.3123	1.2470	.05	5	30
4-bromofluorobenzene	.94137	.90802	.05	4	30

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1207061

Instrument ID: Voa100.i Calibration Date: 26-APR-2012 Time: 19:20

Lab File ID: 0426N01 Init. Calib. Date(s): 27-MAR-2 27-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 16:05 18:47

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.35868	.30509	.1	15	20	
chloromethane	.75095	.69697	.1	7	20	
vinyl chloride	.44781	.43197	.1	4	20	
bromomethane	100	101	.1	-1	20	
chloroethane	100	119	.1	-19	20	
trichlorofluoromethane	.41712	.42178	.1	-1	20	
ethyl ether	.18586	.15568	.05	16	20	
1,1,-dichloroethene	.29565	.26778	.1	9	20	
carbon disulfide	.97013	.88471	.1	9	20	
methylene chloride	.3159	.31391	.1	1	20	
acetone	100	122	.1	-22	20	F
trans-1,2-dichloroethene	.33771	.32103	.1	5	20	
methyl tert butyl ether	.92079	.87096	.1	5	20	
Diisopropyl Ether	1.805	2.0036	.05	-11	20	
1,1-dichloroethane	.72853	.74886	.2	-3	20	
Ethyl-Tert-Butyl-Ether	1.5317	1.5260	.05	0	20	
cis-1,2-dichloroethene	.35551	.33984	.1	4	20	
2,2-dichloropropane	.478	.471	.05	1	20	
bromochloromethane	.16878	.16207	.05	4	20	
chloroform	.61614	.59662	.2	3	20	
carbontetrachloride	.48398	.46243	.1	4	20	
tetrahydrofuran	.18705	.18616	.05	0	20	
1,1,1-trichloroethane	.53236	.51606	.1	3	20	
2-butanone	.26359	.27212	.1	-3	20	
1,1-dichloropropene	.42968	.41094	.05	4	20	
benzene	1.1694	1.1482	.5	2	20	
Tertiary-Amyl Methyl Ether	.87901	.83237	.05	5	20	
1,2-dichloroethane	.58261	.56627	.1	3	20	
trichloroethene	.34587	.3323	.2	4	20	
dibromomethane	.20047	.18474	.05	8	20	
1,2-dichloropropane	.40516	.408	.1	-1	20	
bromodichloromethane	.44238	.42766	.2	3	20	
1,4-dioxane	.0043	.00305	.05	29	20	F
cis-1,3-dichloropropene	.50276	.48951	.2	3	20	
toluene	100	100	.4	0	20	
4-methyl-2-pentanone	.20653	.18646	.1	10	20	
tetrachloroethene	.48723	.47394	.2	3	20	
trans-1,3-dichloropropene	.64019	.63122	.1	1	20	

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1207061

Instrument ID: Voa100.i Calibration Date: 26-APR-2012 Time: 19:20

Lab File ID: 0426N01 Init. Calib. Date(s): 27-MAR-2 27-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 16:05 18:47

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.31203	.30137	.1	3	20
chlorodibromomethane	.49599	.47119	.1	5	20
1,3-dichloropropane	.63012	.61182	.05	3	20
1,2-dibromoethane	.41703	.39526	.1	5	20
2-hexanone	.58647	.57606	.1	2	20
chlorobenzene	1.1951	1.1790	.5	1	20
ethyl benzene	1.9421	1.9114	.1	2	20
1,1,1,2-tetrachloroethane	.46189	.45285	.05	2	20
p/m xylene	.77269	.76588	.1	1	20
o xylene	.75467	.73037	.3	3	20
styrene	1.2199	1.1847	.3	3	20
bromoform	.60059	.60688	.1	-1	20
isopropylbenzene	3.3996	3.6688	.1	-8	20
bromobenzene	.89586	.94067	.05	-5	20
n-propylbenzene	3.8680	4.1959	.05	-8	20
1,1,2,2,-tetrachloroethane	.90538	.93056	.3	-3	20
2-chlorotoluene	2.6167	2.7916	.05	-7	20
1,3,5-trimethybenzene	2.8530	3.0556	.05	-7	20
1,2,3-trichloropropane	.74467	.80213	.05	-8	20
4-chorotoluene	2.4739	2.6616	.05	-8	20
tert-butylbenzene	2.6033	2.7631	.05	-6	20
1,2,4-trimethylbenzene	2.8883	3.0622	.05	-6	20
sec-butylbenzene	3.6910	3.8953	.05	-6	20
p-isopropyltoluene	3.2694	3.4097	.05	-4	20
1,3-dichlorobenzene	1.7443	1.8188	.6	-4	20
1,4-dichlorobenzene	1.7899	1.8744	.5	-5	20
n-butylbenzene	2.8911	3.0742	.05	-6	20
1,2-dichlorobenzene	1.6490	1.7157	.4	-4	20
1,2-dibromo-3-chloropropane	.19138	.188	.05	2	20
hexachlorobutadiene	.61384	.62497	.05	-2	20
1,2,4-trichlorobenzene	1.1996	1.2347	.2	-3	20
naphthalene	3.2877	3.1794	.05	3	20
1,2,3-trichlorobenzene	1.1147	1.1552	.05	-4	20
dibromofluoromethane	.27899	.26583	.05	5	30
1,2-dichloroethane-d4	.34583	.33323	.05	4	30
toluene-d8	1.3123	1.3020	.05	1	30
4-bromofluorobenzene	.94137	.98548	.05	-5	30

FORM VII MCP-8260HLW-10

ANALYTICAL REPORT

Lab Number:	L1207803
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS IRA
Project Number:	115058
Report Date:	05/16/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1207803-01	B-NW-1 (6.5-8')	NEW BEDFORD, MA	04/18/12 12:46
L1207803-02	B-N-1 (8-10')	NEW BEDFORD, MA	04/18/12 12:35
L1207803-03	B-NW-1 (8-10')	NEW BEDFORD, MA	04/18/12 12:52
L1207803-04	MIP-B-W-1 (10-12')	NEW BEDFORD, MA	04/20/12 10:50

Project Name: NBHS IRA **Lab Number:** L1207803

Project Number: 115058 **Report Date:** 05/16/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207803
Report Date: 05/16/12

Case Narrative (continued)

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant protocol-specific QC and/or performance standard non-conformances to report.

Non-MCP Related Narratives

Petroleum Hydrocarbons

L1207803-02, -03, and -04 were extracted with the method required holding time exceeded, at the client's request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative

Date: 05/16/12

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207803
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID:	L1207803-01	Date Collected:	04/18/12 12:46
Client ID:	B-NW-1 (6.5-8')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	05/02/12 05:54
Analytical Date:	05/04/12 01:28		
Analyst:	NH		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	285000		ug/kg	37100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	67		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207803
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID:	L1207803-02	Date Collected:	04/18/12 12:35
Client ID:	B-N-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	05/09/12 16:53
Analytical Date:	05/11/12 08:36		
Analyst:	NH		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	35200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207803
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID:	L1207803-03 D	Date Collected:	04/18/12 12:52
Client ID:	B-NW-1 (8-10')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	05/09/12 16:53
Analytical Date:	05/14/12 14:52		
Analyst:	NH		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	688000		ug/kg	75500	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		40-140

Project Name: NBHS IRA
Project Number: 115058
Lab Number: L1207803
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID:	L1207803-04	Date Collected:	04/20/12 10:50
Client ID:	MIP-B-W-1 (10-12')	Date Received:	04/23/12
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	05/09/12 16:53
Analytical Date:	05/11/12 07:28		
Analyst:	NH		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	40100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	55		40-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015B(M)
Analytical Date: 05/03/12 23:47
Analyst: NH

Extraction Method: EPA 3546
Extraction Date: 05/02/12 05:54

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG533726-1					
TPH	ND		ug/kg	32200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	93		40-140

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015B(M)
Analytical Date: 05/11/12 06:55
Analyst: NH

Extraction Method: EPA 3546
Extraction Date: 05/09/12 16:53

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 02-04 Batch: WG534894-1					
TPH	ND		ug/kg	32600	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG533726-2								
TPH	80		-		40-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	81				40-140

Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 02-04 Batch: WG534894-2								
TPH	71		-		40-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	76				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 QC Batch ID: WG533726-3 QC Sample: L1207803-01 Client ID: B-NW-1 (6.5-8')						
TPH	285000	299000	ug/kg	5		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	67		70		40-140

Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG534894-3 QC Sample: L1207803-02 Client ID: B-N-1 (8-10')						
TPH	ND		ND	ug/kg	NC	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		68		40-140

INORGANICS
&
MISCELLANEOUS

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID: L1207803-01
Client ID: B-NW-1 (6.5-8')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:46
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID: L1207803-02
Client ID: B-N-1 (8-10')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:35
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID: L1207803-03
Client ID: B-NW-1 (8-10')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/18/12 12:52
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

SAMPLE RESULTS

Lab ID: L1207803-04
Client ID: MIP-B-W-1 (10-12')
Sample Location: NEW BEDFORD, MA
Matrix: Soil

Date Collected: 04/20/12 10:50
Date Received: 04/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80		%	0.10	NA	1	-	04/24/12 20:25	30,2540G	RD

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG534619-1 QC Sample: L1207617-35 Client ID: DUP Sample						
Solids, Total	69	62	%	11		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG536171-1 QC Sample: L1207617-63 Client ID: DUP Sample						
Solids, Total	69	62	%	11		20

Project Name: NBHS IRA
Project Number: 115058

Lab Number: L1207803
Report Date: 05/16/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1207803-01A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TPH-DRO-D(14)
L1207803-02A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TPH-DRO-D(14)
L1207803-03A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TPH-DRO-D(14)
L1207803-04A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	TPH-DRO-D(14)

Container Comments

L1207803-01A

*Values in parentheses indicate holding time in days

Project Name:	NBHS IRA	**Lab Number:**	L1207803
Project Number:	115058	**Report Date:**	05/16/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS IRA	**Lab Number:**	L1207803
Project Number:	115058	**Report Date:**	05/16/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS IRA **Lab Number:** L1207803
Project Number: 115058 **Report Date:** 05/16/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised May 11, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D, Fecal Coliform-EC Medium 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterolert, E.Coli 9223.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics, Acid Extractables (Phenols), Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8081B, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C,6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8270C, 8270D, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 3005A, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B, 8015B, 8015C.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease

L1207803

CHAIN OF CUSTODY

PAGE 1 OF 3

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/23/12

ALPHA Job #: L12-07004 U 5/2

Client Information

Client: TRC

Address: 650 SUFFOLK ST. LOWELL MA.

Phone: 978-970-5600 617-462-8090

Fax:

Email: ALEONARD@TRCSOLUTIONS.COM DSULLIVAN

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA.

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 5/10/12 5/9/12 (KB) Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA - Criteria MCP.

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

E = EXTRACT & HOLD H = HOLD ✓ = ANALYZE!

SAMPLE HANDLING

Filtration ☐ Done ☐ Not needed ☐ Lab to do

Preservation ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	[illegible]	[illegible]	[illegible]	TPH-DRO	Sample Specific Comments	Total # Bottles
1	B-N-1 (6-8')	4/18	12:30	S	JF	✓	✓	✓			1
2	B-N-1 (8-10')	4/18	12:35	S	JF	✓	✓		X		1
3	B-NW-1 (6-6.5')	4/18	12:45	S	JF	✓	✓				1
4	B-NW-1 (6.5-8')	4/18	12:46	S	JF	✓	✓	✓	X		1
5	B-NW-1 (8-10')	4/18	12:52	S	JF	✓	✓		X		1
6	B-NW-1 (10-11.5')	4/18	13:10	S	JF	✓	✓				1
7	B-NE-1 (6-8')	4/18	13:18	S	JF	✓	✓				1
8	B-NE-1 (8-10')	4/18	13:23	S	JF	✓	✓				1
9	B-NE-1 (10-12')	4/18	13:35	S	JF	✓	✓				1
10	B-E-1 (4-6')	4/18	14:30	S	JF	✓	✓				1
	Container Type					A	A	A			
	Preservative					A	A	A			

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jason C. Fuis	4/23 1130	[illegible]	4/23/12 1130
[illegible]	4/23/12 1200	[illegible]	4/23/12 1200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:05161213:48

L1207803

MANSFIELD CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd In Lab: 4/23/12

ALPHA Job #: ~~L1207064~~

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: TRC

Address: 650 SUFFOLK ST.
LOWELL MA

Phone: 978-970-5600
617-462-8090

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS IRA

Project Location: NEW BEDFORD MA.

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/16/12 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA	MCP -

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

ANALYSIS: ~~TPH~~ ~~PAH~~ TPH-DRO

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	~~TPH~~	~~PAH~~	TPH-DRO	Sample Specific Comments	Total # Bottles
~~7061-21~~	MIP-B-W-1 (6-8')	4/20	10:30	S	JF	✓	✓			1
~~-22~~	MIP-B-W-1 (8-10')	4/20	10:40	S	JF	✓	✓			1
07803.4 ~~23~~	MIP-B-W-1 (10-12')	4/20	10:50	S	JF	✓	✓	X		1
~~24~~	B-SSE-X	4/18	17:00	S	JF	✓	✓			1

Container Type	A	A
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/23 1130	[signature]	4/23/12 1130
[signature]	4/23/12 1200	[signature]	4/23/12 1200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

Serial_No:05161213:48