Wannalancit Mills
650 Suffolk Street, Suite 200
Lowell, MA 01854

978.970.5600 PHONE
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www.TRCsolutions.com

TRC Reference Number: 115058

October 8, 2012

Cheryl Henlin
Department of Environmental Stewardship
City of New Bedford
133 William Street
New Bedford, Massachusetts 02740

Subject: Groundwater Monitoring Results
Keith Middle School, New Bedford, Massachusetts

Dear Ms. Henlin:

In accordance with the August 2012 Revised Long-Term Monitoring and Maintenance Implementation Plan, Revision 5.5 (LTMMIP) for Keith Middle School (KMS), TRC Environmental Corporation (TRC) collected groundwater samples from three monitoring wells on September 18, 2012. Review of the polychlorinated biphenyl (PCB) and dissolved metals data has been completed by TRC's Quality Assurance (QA) Chemist. The attached table and laboratory data reports provide the results from this sampling effort, in addition to the previous May 25, 2011 analytical results.

Please note that the data are compared to Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) Method 1 GW-2 and GW-3 groundwater cleanup criteria per the LTMMIP, but also to the GW-1 criteria because one of the groundwater monitoring wells (MW-3) is within 500 feet of a suspected potable private groundwater supply well at 249 Summit Street.

TRC appreciates the opportunity to support your project. If you have any questions or comments, please do not hesitate to contact me at 978-656-3565.

Sincerely,

TRC

David M. Sullivan, LSP, CHMM
Senior Project Manager

Enclosure

cc with enclosure: K. Tisa, United States Environmental Protection Agency

Table

Table 1
Summary of Analytical Results for Groundwater Samples -- May and September 2012
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte			Sample ID:	MW-1				MW-2		MW-3	
				Sample Date:	5/25/2012	5/25/2012	9/18/2012	9/18/2012	5/25/2012	9/18/2012	5/25/2012	9/18/2012
		GW-1	GW-2	GW-3		Field Dup		Field Dup				
VOCs												
(ug/L)	Acetone	6,300	50,000	50,000	10 U	10 U	NA	NA	10 U	NA	10 U	NA
	tert-Amyl Methyl Ether (TAME)	NS	NS	NS	0.50 U	0.50 U	NA	NA	0.50 U	NA	0.50 U	NA
	Benzene	5	2,000	10,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Bromobenzene	NS	NS	NS	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Bromochloromethane	NS	NS	NS	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Bromodichloromethane	3	6	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Bromoform	4	700	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Bromomethane	10	7	800	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	2-Butanone (MEK)	4,000	50,000	50,000	10 U	10 U	NA	NA	10 U	NA	10 U	NA
	n-Butylbenzene	200(1)	7,000(1)	50,000(1)	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	sec-Butylbenzene	200(1)	7,000(1)	50,000(1)	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	tert-Butylbenzene	200(1)	7,000(1)	50,000(1)	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	tert-Butyl Ethyl Ether (TBEE)	NS	NS	NS	0.50 U	0.50 U	NA	NA	0.50 U	NA	0.50 U	NA
	Carbon Disulfide	NS	NS	NS	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA
	Carbon Tetrachloride	5	2	5,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Chlorobenzene	100	200	1,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Chlorodibromomethane	2	20	50,000	0.50 U	0.50 U	NA	NA	0.50 U	NA	0.50 U	NA
	Chloroethane	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	Chloroform	70	50	20,000	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	Chloromethane	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	2-Chlorotoluene	NS	NS	NS	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	4-Chlorotoluene	NS	NS	NS	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,2-Dibromo-3-chloropropane (DBCP)	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	1,2-Dibromoethane (EDB)	0.02	2	50,000	0.50 U	0.50 U	NA	NA	0.50 U	NA	0.50 U	NA
	Dibromomethane	NS	NS	NS	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,2-Dichlorobenzene	600	2,000	2,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,3-Dichlorobenzene	40	2,000	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,4-Dichlorobenzene	5	200	8,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Dichlorodifluoromethane (Freon 12)	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	1,1-Dichloroethane	70	1,000	20,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,2-Dichloroethane	5	5	20,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,1-Dichloroethylene	7	80	30,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	cis-1,2-Dichloroethylene	70	100	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	trans-1,2-Dichloroethylene	100	90	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,2-Dichloropropane	5	3	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,3-Dichloropropane	NS	NS	NS	0.50 U	0.50 U	NA	NA	0.50 U	NA	0.50 U	NA
	2,2-Dichloropropane	NS	NS	NS	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,1-Dichloropropene	NS	NS	NS	0.50 U	0.50 U	NA	NA	0.50 U	NA	0.50 U	NA
	cis-1,3-Dichloropropene	0.4(2)	10(2)	200(2)	0.40 U	0.40 U	NA	NA	0.40 U	NA	0.40 U	NA
	trans-1,3-Dichloropropene	0.4(2)	10(2)	200(2)	0.40 U	0.40 U	NA	NA	0.40 U	NA	0.40 U	NA

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New Bedford, Massachusetts

Analysis	Analyte			Sample ID:	MW-1				MW-2		MW-3	
				Sample Date:	5/25/2012	5/25/2012	9/18/2012	9/18/2012	5/25/2012	9/18/2012	5/25/2012	9/18/2012
		GW-1	GW-2	GW-3		Field Dup		Field Dup				
	Diethyl Ether	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	Diisopropyl Ether (DIPE)	NS	NS	NS	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA
	1,4-Dioxane	3	6,000	50,000	50 U	50 U	NA	NA	50 U	NA	50 U	NA
	Ethylbenzene	700	20,000	5,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Hexachlorobutadiene	1	1	3,000	0.50 U	0.50 U	NA	NA	0.50 U	NA	0.50 U	NA
	2-Hexanone (MBK)	NS	NS	NS	10 U	10 U	NA	NA	10 U	NA	10 U	NA
	Isopropylbenzene (Cumene)	200(1)	7,000(1)	50,000(1)	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	p-Isopropyltoluene (p-Cymene)	200(1)	7,000(1)	50,000(1)	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Methyl tert-Butyl Ether (MTBE)	70	50,000	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Methylene Chloride	5	10,000	50,000	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA
	4-Methyl-2-pentanone (MIBK)	350	50,000	50,000	10 U	10 U	NA	NA	10 U	NA	10 U	NA
	Naphthalene	140	1,000	20,000	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	n-Propylbenzene	200(1)	7,000(1)	50,000(1)	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Styrene	100	100	6,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,1,1,2-Tetrachloroethane	5	10	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,1,2,2-Tetrachloroethane	2	9	50,000	0.50 U	0.50 U	NA	NA	0.50 U	NA	0.50 U	NA
	Tetrachloroethylene	5	50	30,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Tetrahydrofuran	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	Toluene	1,000	50,000	40,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,2,3-Trichlorobenzene	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	1,2,4-Trichlorobenzene	70	2,000	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,1,1-Trichloroethane	200	4,000	20,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,1,2-Trichloroethane	5	900	50,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Trichloroethylene	5	30	5,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Trichlorofluoromethane (Freon 11)	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	1,2,3-Trichloropropane	NS	NS	NS	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	1,2,4-Trimethylbenzene	200(1)	7,000(1)	50,000(1)	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	1,3,5-Trimethylbenzene	200(1)	7,000(1)	50,000(1)	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
	Vinyl Chloride	2	2	50,000	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	m+p Xylene	10,000	9,000	5,000	2.0 U	2.0 U	NA	NA	2.0 U	NA	2.0 U	NA
	o-Xylene	10,000	9,000	5,000	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA
PCBs												
(ug/L)	Aroclor 1016	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
	Aroclor 1221	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
	Aroclor 1232	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
	Aroclor 1242	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
	Aroclor 1248	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
	Aroclor 1254	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	**0.0781**	**0.229**
	Aroclor 1260	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
	Total PCBs	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	**0.0781**	**0.229**

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Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte			Sample ID:	MW-1				MW-2		MW-3	
				Sample Date:	5/25/2012	5/25/2012	9/18/2012	9/18/2012	5/25/2012	9/18/2012	5/25/2012	9/18/2012
		GW-1	GW-2	GW-3		Field Dup		Field Dup				
Metals, dissolved												
(ug/L)	Arsenic	10	NS	900	**0.42**	0.40 U	0.40 U	0.40 U	0.40 U	**1.7**	**0.56**	**1.5**
	Barium	2,000	NS	50,000	**80**	**80**	**66**	**56**	**140**	**1,500**	**250**	**310**
	Cadmium	5	NS	4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Chromium	100	NS	300	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	**1.4**
	Lead	15	NS	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.9**	**6.4**
	Mercury	2	NS	20	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	Selenium	50	NS	100	**7.8**	**7.6**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Silver	100	NS	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:

ug/L - micrograms per liter.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

VOCs - Volatile Organic Compounds.

PCBs - Polychlorinated Biphenyls.

(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.

(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Laboratory Analytical Data

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 25, 2012

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: City Of New Bedford - KMS
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 12I0546

Enclosed are results of analyses for samples received by the laboratory on September 18, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

REPORT DATE: 9/25/2012

PURCHASE ORDER NUMBER: 49296

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12I0546

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: City Of New Bedford - KMS

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	12I0546-01	Ground Water		SW-846 6020A	
				SW-846 7470A	
MW-101	12I0546-02	Ground Water		SW-846 6020A	
				SW-846 7470A	
MW-2	12I0546-03	Ground Water		SW-846 6020A	
				SW-846 7470A	
MW-3	12I0546-04	Ground Water		SW-846 6020A	
				SW-846 7470A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, only RCRA 8 metals were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City Of New Bedford - KMS
Sample Description:
Work Order: 12I0546

Date Received: 9/18/2012

Field Sample #: MW-1
Sampled: 9/18/2012 10:00

Sample ID: 12I0546-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:49	KSH
Barium	66	10	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:49	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:49	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:49	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:49	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/19/12	9/19/12 12:32	SAJ
Selenium	ND	5.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:49	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:49	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City Of New Bedford - KMS
Sample Description:
Work Order: 12I0546

Date Received: 9/18/2012

Field Sample #: MW-101
Sampled: 9/18/2012 11:00

Sample ID: 12I0546-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:52	KSH
Barium	56	10	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:52	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:52	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:52	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:52	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/19/12	9/19/12 12:34	SAJ
Selenium	ND	5.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:52	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:52	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City Of New Bedford - KMS
Sample Description:
Work Order: 12I0546

Date Received: 9/18/2012

Field Sample #: MW-2
Sampled: 9/18/2012 11:55

Sample ID: 12I0546-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	1.7	0.40	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:56	KSH
Barium	1500	200	µg/L	20		SW-846 6020A	9/20/12	9/20/12 14:38	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:56	KSH
Chromium	1.1	1.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:56	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:56	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/19/12	9/19/12 12:35	SAJ
Selenium	ND	5.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:56	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:56	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City Of New Bedford - KMS
Sample Description:
Work Order: 12I0546

Date Received: 9/18/2012

Field Sample #: MW-3
Sampled: 9/18/2012 13:50

Sample ID: 12I0546-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	1.5	0.40	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:45	KSH
Barium	310	50	µg/L	5		SW-846 6020A	9/20/12	9/20/12 14:34	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:45	KSH
Chromium	1.4	1.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:45	KSH
Lead	6.4	1.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:45	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/19/12	9/19/12 12:37	SAJ
Selenium	ND	5.0	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:45	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	9/20/12	9/20/12 13:45	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12I0546-01 [MW-1]	B059173	50.0	50.0	09/20/12
12I0546-02 [MW-101]	B059173	50.0	50.0	09/20/12
12I0546-03 [MW-2]	B059173	50.0	50.0	09/20/12
12I0546-04 [MW-3]	B059173	50.0	50.0	09/20/12

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12I0546-01 [MW-1]	B059072	6.00	6.00	09/19/12
12I0546-02 [MW-101]	B059072	6.00	6.00	09/19/12
12I0546-03 [MW-2]	B059072	6.00	6.00	09/19/12
12I0546-04 [MW-3]	B059072	6.00	6.00	09/19/12

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B059072 - SW-846 7470A Prep										
Blank (B059072-BLK1)				Prepared & Analyzed: 09/19/12						
Mercury	ND	0.00010	mg/L							
LCS (B059072-BS1)				Prepared & Analyzed: 09/19/12						
Mercury	0.00214	0.00010	mg/L	0.00200		107	80-120			
LCS Dup (B059072-BSD1)				Prepared & Analyzed: 09/19/12						
Mercury	0.00216	0.00010	mg/L	0.00200		108	80-120	0.915	20	
Duplicate (B059072-DUP1)		**Source: 12I0546-04**		Prepared & Analyzed: 09/19/12						
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B059072-MS1)		**Source: 12I0546-04**		Prepared & Analyzed: 09/19/12						
Mercury	0.00208	0.00010	mg/L	0.00200	ND	104	75-125			
Batch B059173 - SW-846 3005A Dissolved										
Blank (B059173-BLK1)				Prepared & Analyzed: 09/20/12						
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
LCS (B059173-BS1)				Prepared & Analyzed: 09/20/12						
Arsenic	251	2.0	µg/L	250		100	80-120			
Barium	253	50	µg/L	250		101	80-120			
Cadmium	262	2.5	µg/L	250		105	80-120			
Chromium	253	5.0	µg/L	250		101	80-120			
Lead	244	5.0	µg/L	250		97.6	80-120			
Selenium	269	25	µg/L	250		107	80-120			
Silver	260	2.5	µg/L	250		104	80-120			
LCS Dup (B059173-BSD1)				Prepared & Analyzed: 09/20/12						
Arsenic	245	2.0	µg/L	250		98.1	80-120	2.38	20	
Barium	249	50	µg/L	250		99.6	80-120	1.42	20	
Cadmium	257	2.5	µg/L	250		103	80-120	2.04	20	
Chromium	245	5.0	µg/L	250		98.1	80-120	3.17	20	
Lead	241	5.0	µg/L	250		96.3	80-120	1.30	20	
Selenium	254	25	µg/L	250		102	80-120	5.57	20	
Silver	258	2.5	µg/L	250		103	80-120	0.736	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B059173 - SW-846 3005A Dissolved										
Duplicate (B059173-DUP1)		**Source: 12I0546-04**		Prepared & Analyzed: 09/20/12						
Arsenic	1.46	0.40	µg/L		1.50			2.23	20	
Barium	304	50	µg/L		310			1.74	20	
Cadmium	ND	0.50	µg/L		ND			NC	20	
Chromium	1.29	1.0	µg/L		1.37			5.60	20	
Lead	6.11	1.0	µg/L		6.40			4.72	20	
Selenium	ND	5.0	µg/L		ND			NC	20	
Silver	ND	0.50	µg/L		ND			NC	20	
Matrix Spike (B059173-MS1)		**Source: 12I0546-04**		Prepared & Analyzed: 09/20/12						
Arsenic	257	4.0	µg/L	250	1.50	102	75-125			
Barium	583	100	µg/L	250	310	109	75-125			
Cadmium	268	5.0	µg/L	250	ND	107	75-125			
Chromium	264	10	µg/L	250	1.37	105	75-125			
Lead	264	10	µg/L	250	6.40	103	75-125			
Selenium	270	50	µg/L	250	ND	108	75-125			
Silver	266	5.0	µg/L	250	ND	107	75-125			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020A in Water	
Arsenic	CT,NH,NY,RI,NC,ME
Barium	MA,NY,CT,NC,NH,ME
Cadmium	CT,NH,NY,RI,NC,ME
Chromium	CT,NH,NY,RI,NC,ME
Lead	CT,NH,NY,RI,NC,ME
Selenium	CT,NH,NY,RI,NC,ME
Silver	CT,NC,NH,NY,RI,ME
SW-846 7470A in Water	
Mercury	CT,NH,NY,RI,NC,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12I0546

Rev. 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC
Address: 650 Suffolk Street
Lowell, MA 01854
Attention: Dave Sullivan
Project Location: City of New Bedford - KMS
Sampled By: Zack Richards

Telephone: 978-970-5600
Project #: 115058
Client PO#: 49296

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: dsullivan@trcsolutions.com
Format: ☒ PDF ○ EXCEL ☒ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes 2007 proposal date

ANALYSIS REQUESTED

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | RCRA-8 Metals (Dissolved) | | |

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: WF DATE: 9/18/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.4

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	6	Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	12I0546
Project Location:	City Of New Bedford - KMS	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12I0546-01 thru 12I0546-04

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D (X)	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF 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	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
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	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
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).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below 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	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 09/25/12

Pace Analytical e-Report

***Issuance of this report is prior to full data package.**

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

Project ID: 115058 KEITH MIDDLE SCHOOL
Sampling Date(s): September 18, 2012
Lab Report ID: 12090293
Client Service Contact: Kelly Miller (518) 346-4592 ext. 23

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 the 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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Table of Contents

Section 1: QUALIFIERS 4

Section 2: SAMPLE CHAIN OF CUSTODY 6

Section 3: GC - PCB 8

Section 4: Quality Control Samples (Field) 13

Section 5: Quality Control Samples (Lab) 18

QUALIFIERS

Organic Laboratory Qualifiers Defined

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted out. The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Reporting Limit (RL).

P - Indicates relative percent difference (RPD) between primary and secondary GC column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary GC column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than or equal to the RL. RL's are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to PCB co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers Defined

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Reporting Limit (RL).

U - Denotes analyte not detected at concentration greater than or equal to the RL. RL's are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

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CHAIN-OF-CUSTODY / Analytical Request Document

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

<12090293P1>
120902931

Section A Required Client Information:
Company: TRC
Address: 650 Suffolk Street, Lowell, MA 01854
Email To: dsullivan@trcsolutions.com
Phone: 978-970-5600 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: Dave Sullivan
Copy To: Jeff Saunders (jsaunders@trcsolutions.com)
Purchase Order No.: 49297
Project Name: KMS-New Bedford
Project Number: 115058

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

Page: of
1589792

REGULATORY AGENCY
NPDES [X] 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

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 (Requested Analysis Filtered (Y/N))	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G	9/18/12	1000				2	X								PCBs (N) X		AP28894
2	MW-101	WT	G	↓	1100				2	X								X		AP28895
3	MW-2	WT	G	↓	1155				2	X								X		AP28896
4	MW-3	WT	G	↓	1350				6	X								X plus MS/MSD		AP28897
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / TRC	9/18/12	1700	Fedex			6.8	Y	Y	Y
	Fedex	9/19/12	10:09	[signature]	9/19/12	10:09	6.6			

AC 9/19/12

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Zack Richards
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/18/12

*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 ...

GC - PCB

Analytical Sample Results

Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: MW-1
Lab Sample ID: 12090293-01 (AP28894)

Collection Date: 09/18/2012 10:00
Sample Matrix: WATER
Received Date: 09/19/2012 10:09
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23F-1038-11	SW-846 Method 8082	09/24/2012 14:24	AJM	NA	NA	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1060 mL	10.0 mL	NA

3

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23F-1038-11
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23F-1038-11
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23F-1038-11
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC23F-1038-11
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23F-1038-11
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC23F-1038-11
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23F-1038-11
Total PCB Amount	1336-36-3	ND		1.00	U	GC23F-1038-11

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	95.8	60.0-140		GC23F-1038-11
Decachlorobiphenyl	2051-24-3	111	60.0-140		GC23F-1038-11
Tetrachloro-meta-xylene	877-09-8	94.8	60.0-140		GC23B-1047-11
Decachlorobiphenyl	2051-24-3	109	60.0-140		GC23B-1047-11

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Analytical Sample Results

Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: MW-101
Lab Sample ID: 12090293-02 (AP28895)

Collection Date: 09/18/2012 11:00
Sample Matrix: WATER
Received Date: 09/19/2012 10:09
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23F-1038-12	SW-846 Method 8082	09/24/2012 14:57	AJM	NA	NA	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1080 mL	10.0 mL	NA

3

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23F-1038-12
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23F-1038-12
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23F-1038-12
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC23F-1038-12
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23F-1038-12
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC23F-1038-12
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23F-1038-12
Total PCB Amount	1336-36-3	ND		1.00	U	GC23F-1038-12

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	97.0	60.0-140		GC23F-1038-12
Decachlorobiphenyl	2051-24-3	111	60.0-140		GC23F-1038-12
Tetrachloro-meta-xylene	877-09-8	97.6	60.0-140		GC23B-1047-12
Decachlorobiphenyl	2051-24-3	113	60.0-140		GC23B-1047-12

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Analytical Sample Results

Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: MW-2
Lab Sample ID: 12090293-03 (AP28896)

Collection Date: 09/18/2012 11:55
Sample Matrix: WATER
Received Date: 09/19/2012 10:09
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23F-1038-13	SW-846 Method 8082	09/24/2012 15:29	AJM	NA	NA	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1080 mL	10.0 mL	NA

3

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23F-1038-13
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23F-1038-13
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23F-1038-13
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC23F-1038-13
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23F-1038-13
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC23F-1038-13
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23F-1038-13
Total PCB Amount	1336-36-3	ND		1.00	U	GC23F-1038-13

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	92.8	60.0-140		GC23F-1038-13
Decachlorobiphenyl	2051-24-3	112	60.0-140		GC23F-1038-13
Tetrachloro-meta-xylene	877-09-8	93.7	60.0-140		GC23B-1047-13
Decachlorobiphenyl	2051-24-3	113	60.0-140		GC23B-1047-13

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Analytical Sample Results

Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: MW-3
Lab Sample ID: 12090293-04 (AP28897)

Collection Date: 09/18/2012 13:50
Sample Matrix: WATER
Received Date: 09/19/2012 10:09
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23B-1047-14	SW-846 Method 8082	09/24/2012 16:02	AJM	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1080 mL	10.0 mL	NA

3

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23B-1047-14
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23B-1047-14
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23B-1047-14
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC23B-1047-14
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23B-1047-14
Aroclor 1254	11097-69-1	**0.229**	0.0500	1.00	AF	GC23B-1047-14
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23B-1047-14
Total PCB Amount	1336-36-3	**0.229**		1.00		GC23B-1047-14

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	94.6	60.0-140		GC23F-1038-14
Decachlorobiphenyl	2051-24-3	113	60.0-140		GC23F-1038-14
Tetrachloro-meta-xylene	877-09-8	96.0	60.0-140		GC23B-1047-14
Decachlorobiphenyl	2051-24-3	115	60.0-140		GC23B-1047-14

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

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Quality Control Samples (Field)

4

Quality Control Results
Matrix Spike Sample
Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: MW-3 MS
Lab Sample ID: 12090293-04M (AP28897M)-Confirm

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23B-1047-15	SW-846 Method 8082	09/24/2012 16:35	AJM	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1080 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23B-1047-15
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23B-1047-15
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23B-1047-15
Aroclor 1242	53469-21-9	**0.462**	0.0500	1.00		GC23B-1047-15
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23B-1047-15
Aroclor 1254	11097-69-1	**0.0644**	0.0500	1.00	AF	GC23B-1047-15
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23B-1047-15
Total PCB Amount	1336-36-3	**0.5264**		1.00		GC23B-1047-15

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9		0.463	0.462	99.7		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	94.3	60.0-140		GC23B-1047-15
Decachlorobiphenyl	2051-24-3	113	60.0-140		GC23B-1047-15

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

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Quality Control Results
Matrix Spike Sample
Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: MW-3 MS
Lab Sample ID: 12090293-04M (AP28897M)-Primary

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23F-1038-15	SW-846 Method 8082	09/24/2012 16:34	AJM	NA	NA	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1080 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23F-1038-15
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23F-1038-15
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23F-1038-15
Aroclor 1242	53469-21-9	**0.456**	0.0500	1.00		GC23F-1038-15
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23F-1038-15
Aroclor 1254	11097-69-1	**0.0662**	0.0500	1.00	AF	GC23F-1038-15
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23F-1038-15
Total PCB Amount	1336-36-3	**0.5222**		1.00		GC23F-1038-15

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9		0.463	0.456	98.4		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	92.4	60.0-140		GC23F-1038-15
Decachlorobiphenyl	2051-24-3	112	60.0-140		GC23F-1038-15

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

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Quality Control Results
Matrix Spike Duplicate Sample
Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: MW-3 MSD
Lab Sample ID: 12090293-04K (AP28897K)-Primary

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23F-1038-16	SW-846 Method 8082	09/24/2012 17:07	AJM	NA	NA	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1080 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23F-1038-16
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23F-1038-16
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23F-1038-16
Aroclor 1242	53469-21-9	**0.449**	0.0500	1.00		GC23F-1038-16
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23F-1038-16
Aroclor 1254	11097-69-1	**0.0991**	0.0500	1.00	AF	GC23F-1038-16
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23F-1038-16
Total PCB Amount	1336-36-3	**0.5481**		1.00		GC23F-1038-16

								Precision			
Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MSD (ug/L)	MSD % Rec.	Q[1]	Limits (%)	MS % Rec.	RPD	Q[1]	Limits (%)
Aroclor 1242	53469-21-9		0.463	0.449	97.1		70.0-130	98.4	1.33		20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	93.5	60.0-140		GC23F-1038-16
Decachlorobiphenyl	2051-24-3	105	60.0-140		GC23F-1038-16

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

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Quality Control Results
Matrix Spike Duplicate Sample
Job Number: 12090293

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: MW-3 MSD
Lab Sample ID: 12090293-04K (AP28897K)-Confirm

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23B-1047-16	SW-846 Method 8082	09/24/2012 17:07	AJM	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1080 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23B-1047-16
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23B-1047-16
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23B-1047-16
Aroclor 1242	53469-21-9	**0.463**	0.0500	1.00		GC23B-1047-16
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23B-1047-16
Aroclor 1254	11097-69-1	**0.0945**	0.0500	1.00	AF	GC23B-1047-16
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23B-1047-16
Total PCB Amount	1336-36-3	**0.5575**		1.00		GC23B-1047-16

								Precision			
Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MSD (ug/L)	MSD % Rec.	Q[1]	Limits (%)	MS % Rec.	RPD	Q[1]	Limits (%)
Aroclor 1242	53469-21-9		0.463	0.463	100		70.0-130	99.7	0.300		20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	93.9	60.0-140		GC23B-1047-16
Decachlorobiphenyl	2051-24-3	107	60.0-140		GC23B-1047-16

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

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Quality Control Samples (Lab)

5

Quality Control Results
Method Blank

Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Method Blank (AP28897B)
Lab Sample ID: PBLK-09

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23B-1047-9	SW-846 Method 8082	09/24/2012 13:19	AJM	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1000 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23B-1047-9
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23B-1047-9
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23B-1047-9
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC23B-1047-9
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23B-1047-9
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC23B-1047-9
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23B-1047-9
Total PCB Amount	1336-36-3	ND		1.00	U	GC23B-1047-9

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	91.8	60.0-140		GC23B-1047-9
Decachlorobiphenyl	2051-24-3	103	60.0-140		GC23B-1047-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

5

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Quality Control Results
Method Blank

Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
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Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Method Blank (AP28897B)
Lab Sample ID: PBLK-09

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23F-1038-9	SW-846 Method 8082	09/24/2012 13:19	AJM	NA	NA	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1000 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC23F-1038-9
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC23F-1038-9
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC23F-1038-9
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC23F-1038-9
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC23F-1038-9
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC23F-1038-9
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC23F-1038-9
Total PCB Amount	1336-36-3	ND		1.00	U	GC23F-1038-9

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	92.9	60.0-140		GC23F-1038-9
Decachlorobiphenyl	2051-24-3	103	60.0-140		GC23F-1038-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

5

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Quality Control Results
Lab Control Sample

Job Number: 12090293

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Lab Control Sample (AP28897L)
Lab Sample ID: LCS-09

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23B-1047-10	SW-846 Method 8082	09/24/2012 13:52	AJM	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1000 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	0.500	0.483	96.5		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	92.4	60.0-140		GC23B-1047-10
Decachlorobiphenyl	2051-24-3	101	60.0-140		GC23B-1047-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

5

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Quality Control Results
Lab Control Sample
Job Number: 12090293

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Lab Control Sample (AP28897L)
Lab Sample ID: LCS-09

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC23F-1038-10	SW-846 Method 8082	09/24/2012 13:51	AJM	NA	NA	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	20030	EPA 3535	09/21/2012 11:15	EPC	1000 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	0.500	0.487	97.4		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	92.8	60.0-140		GC23F-1038-10
Decachlorobiphenyl	2051-24-3	99.7	60.0-140		GC23F-1038-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

5

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