

**Notification For Hazardous Substance Discharge
 (Non-Emergency Only)**

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (check one):

- Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility
- Other - Describe: Historic operations at the site by prior owners and operators reportedly included dry cleaning and service station operations

ATTN DNR: **R & R Program Associate**

Date DNR Notified: 12/14/2017

1. Discharge Reported By

Name Jeanne Tarvin	Firm Ramboll Environ	Phone Number (include area code) (262) 901-0085
Mailing Address 175 North Corporate Drive, Ste 160, Brookfield, WI 53045	Email jtarvin@ramboll.com	

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.

APRC

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60.

1201 - 1221 West Wells Street

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.

Milwaukee

County Milwaukee	Legal Description: SW ¼ of NW ¼ Section 29, Town 07 N, Range 22 <input checked="" type="radio"/> E <input type="radio"/> W	WTM: X 688812 Y 297325
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3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Marquette University

A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review DNR publication RR-055; and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using DNR Form 4400-237.

Contact Person Name (if different) Joel Smullen	Phone Number (414) 288-4620	Email joel.smullen@marquette.edu		
Mailing Address 517 North 14th Street	City Milwaukee	State WI	ZIP Code 53233	

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email		
Mailing Address	City	State	ZIP Code	

(continued)

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Jeanne Tarvin Ramboll Environ

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4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> VOCs
<input checked="" type="checkbox"/> PCE
<input checked="" type="checkbox"/> TCE
<input checked="" type="checkbox"/> Other Chlorinated
<input type="checkbox"/> Diesel
<input type="checkbox"/> Fuel Oil
<input type="checkbox"/> Gasoline
<input type="checkbox"/> Hydraulic Oil
<input type="checkbox"/> Jet Fuel | <i>(VOCs continued)</i>
<input type="checkbox"/> Mineral Oil
<input type="checkbox"/> Waste Oil
<input type="checkbox"/> Petroleum-Unknown Type
<input checked="" type="checkbox"/> PAHs
<input type="checkbox"/> PCBs
<input type="checkbox"/> Cyanide
<input type="checkbox"/> Leachate
<input type="checkbox"/> Manure | <input checked="" type="checkbox"/> Metals
<input checked="" type="checkbox"/> Arsenic
<input type="checkbox"/> Chromium
<input checked="" type="checkbox"/> Lead
<input checked="" type="checkbox"/> Other: <u>Cadmium, Selenium, Mercury</u>
<input type="checkbox"/> Pesticides: _____
<input type="checkbox"/> Fertilizer: _____
<input type="checkbox"/> RCRA Hazardous Waste: _____
<input type="checkbox"/> Other: _____
<input type="checkbox"/> Unknown |
|---|---|---|

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- | | | |
|---|---|--|
| <input type="checkbox"/> Air Contamination | <input type="checkbox"/> Fire Explosion Threat | <input checked="" type="checkbox"/> Soil Contamination |
| <input checked="" type="checkbox"/> Co-mingled (Petroleum & Non-Petroleum) Contamination in Fractured Bedrock | <input type="checkbox"/> Free Product | <input type="checkbox"/> Soil Gas Contamination |
| <input type="checkbox"/> Contamination Within 1 Meter of Bedrock | <input checked="" type="checkbox"/> Groundwater Contamination | <input type="checkbox"/> Sub-slab Vapor Contamination |
| <input type="checkbox"/> Contaminated Private Well | <input type="checkbox"/> Off-Site Contamination | <input type="checkbox"/> Surface Water Contamination |
| <input type="checkbox"/> Contaminated Public Well | <input type="checkbox"/> Sanitary Sewer Contamination | <input type="checkbox"/> Within 100 ft of Private Well |
| <input type="checkbox"/> Contamination in Right of Way | <input type="checkbox"/> Storm Sewer Contamination | <input type="checkbox"/> Within 1000 ft of Public Well |
| | <input type="checkbox"/> Sediment Contamination | |
| | Other (specify): _____ | |

Contamination was discovered as a result of:

- Tank closure assessment
 Site assessment
 Other - Describe: _____
 Date
 Date
 Date

Lab results: Lab results will be faxed upon receipt Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

Source	Cause
For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information: <input type="checkbox"/> Tank <input type="checkbox"/> Piping <input type="checkbox"/> Dispenser <input type="checkbox"/> Submersible Turbine Pump <input type="checkbox"/> Delivery Problem <input checked="" type="checkbox"/> Does not apply. <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Spill <input type="checkbox"/> Overfill <input type="checkbox"/> Corrosion <input type="checkbox"/> Physical or Mechanical Damage <input type="checkbox"/> Installation Problem <input type="checkbox"/> Other (does not fit any of above) <input type="checkbox"/> Unknown

Contact information to report non-emergency releases in DNR's five regions are as follows:

- Northeast Region (FAX: 920-662-5413); Attention -- R&R Program Associate: DNRRRNER@wisconsin.gov**
 Brown, Calumet, Door, Fond du Lac (except City of Waupun - see South Central Region), Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties
- Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov**
 Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties
- South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate: DNRRRSCR@wisconsin.gov**
 Columbia, Dane, Dodge, Fond du Lac (City of Waupun only), Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties
- Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov**
 Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

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West Central Region (FAX: 715-839-6076); Attention -- R&R Program Associate: DNRRRWCR@wisconsin.gov

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties

W Wells St

7

9

4

B-1/TW-1

B-5/TW-5

B-6/TW-6

6

B-2/TW-2

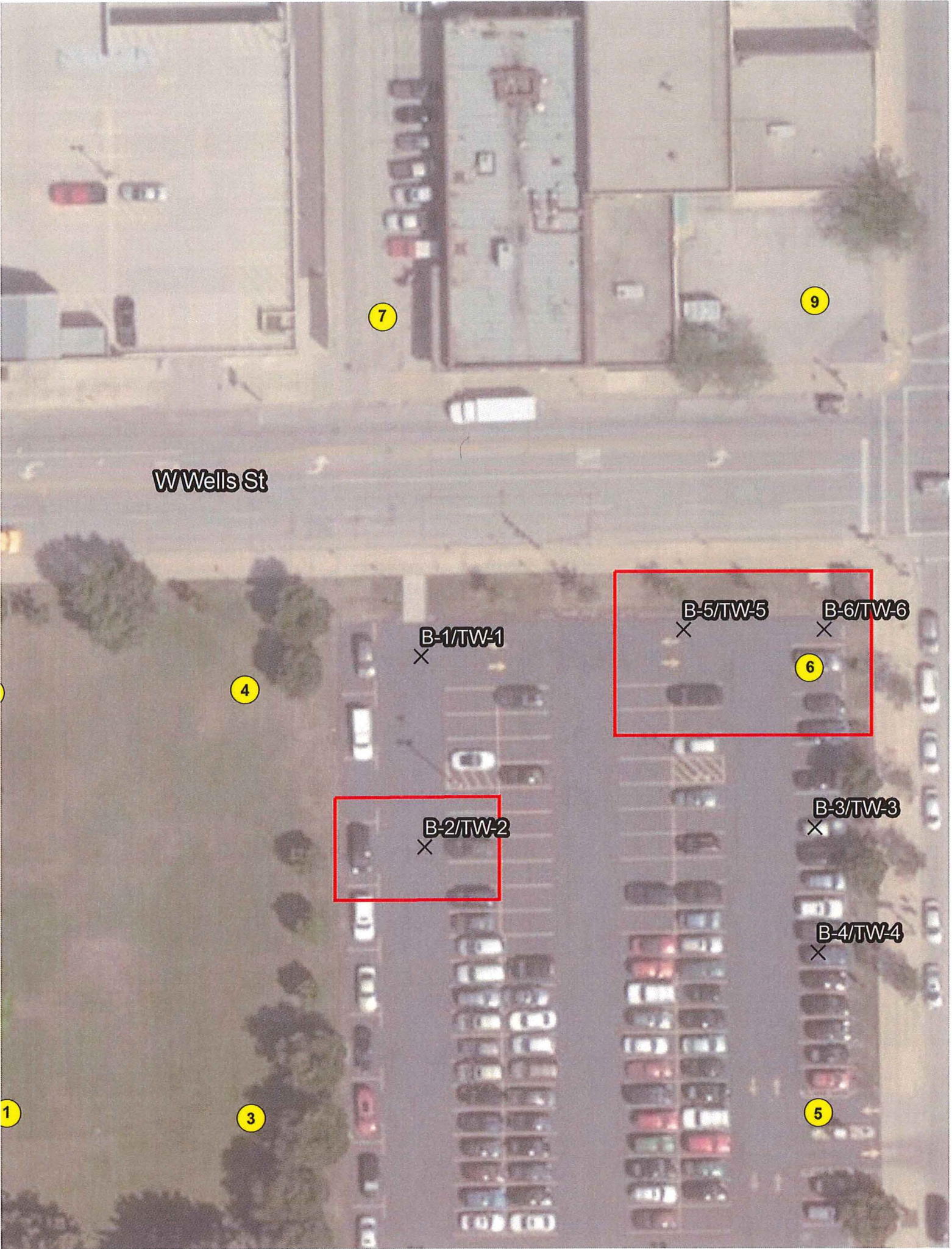
B-3/TW-3

B-4/TW-4

1

3

5



**TABLE 1. SOIL ANALYTICAL RESULTS
MARQUETTE UNIVERSITY PHASE II
1201 WEST WELLS STREET
MILWAUKEE, WISCONSIN
RAMBOLL-ENVIRON PROJECT NO. 21-43145B**

Parameters	Soil RCLs			BTV	B-1 (3-4')	B-1 (11.6-12.6')	B-2 (3-4')	B-2 (12-13')	B-3 (3-4')	B-3 (11-12')	B-4 (2-3')	B-4 (10-11')	B-5 (12.5-13.5')	B-5 (14-15')	B-6 (3-4')	B-6 (11-12')
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway		10/09/17	10/09/17	10/09/17	10/09/17	10/09/17	10/09/17	10/09/17	10/09/17	10/09/17	10/09/17	10/09/17	10/09/17
PAHs (µg/kg)																
Acenaphthene	3,590,000	45,200,000	--	--	44.3	7.1 J	13.3 J	34.6	9.3 J	34.6	34.6	34.4	36.1	36.9	34.5	34.3
Acenaphthylene	--	--	--	--	<0.2	<0.2	6.3 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	17,900,000	100,000,000	196,949.2	--	<0.2	<0.2	25.3	36.7	16.7 J	39.6	10.6 J	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)anthracene	1140	20,800	--	--	11.7 J	17.3	84.3	<0.2	26.0	5.5 J	27.6	<0.2	<0.2	<0.2	5.9 J	<0.2
Benzo(a)pyrene	115	2110	470	--	12.1	15.3	65.7	<0.2	20.2	4.9 J	26.3	3.7 J	<0.2	<0.2	4.2 J	<0.2
Benzo(b)fluoranthene	1150	21,100	479.3	--	20.6	21.8	79.0	<0.2	25.7	7.1 J	39.9	4.7 J	3.5 J	<0.2	6.5 J	<0.2
Benzo(k)fluoranthene	--	--	--	--	11.1	10.7	36.8	<0.2	11.6	4.3 J	20.9	5.1 J	<0.2	<0.2	3.2 J	<0.2
Benzo(k)perylene	11,500	211,000	--	--	7.1 J	9.4 J	33.5	<0.2	10.9	<0.2	14.4	<0.2	<0.2	<0.2	<0.2	<0.2
Chrysene	115,000	2,110,000	144.8	--	15.2	21.5	67.2	34.0	24.4	6.6 J	33.7	<0.2	<0.2	<0.2	6.5 J	<0.2
Dibenz(a,h)anthracene	115	2110	--	--	<0.2	<0.2	9.0 J	<0.2	3.2 J	<0.2	4.4 J	<0.2	<0.2	<0.2	<0.2	<0.2
Fluoranthene	2,390,000	30,100,000	88,877.8	--	33.9	52.2	143	<0.2	66.1	15.2 J	77.5	6.5 J	<0.2	<0.2	10.7 J	<0.2
Fluorene	2,390,000	30,100,000	14,829.9	--	<0.2	6.2 J	15.0 J	34.0	9.7 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	1150	21,100	--	--	8.3	9.2	34.6	<0.2	9.9	3.0 J	17.4	2.6 J	<0.2	<0.2	<0.2	<0.2
1-Methylnaphthalene	17,600	72,700	--	--	<0.2	<0.2	7.5 J	34.7	34.7	<0.2	<0.2	<0.2	12.1 J	<0.2	47.0	6.0 J
2-Methylnaphthalene	239,000	3,010,000	--	--	<0.2	<0.2	7.7 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	8.4 J	<0.2	<0.2
Naphthalene	5,520	24,100	658.2	--	<0.2	<0.2	20.4 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	52.5	35.3	10.0 J
Phenanthrene	--	--	--	--	15.6 J	53.0	126	312.0	79.8	<0.2	57.0	<0.2	<0.2	<0.2	<0.2	<0.2
Pyrene	1,760,000	22,600,000	54,545.5	--	27.9	43.9	126	<0.2	55.2	12.5 J	61.1	5.4 J	<0.2	<0.2	12.1 J	45.1
Metals (mg/kg)																
Arsenic ³	0.677	3.00	0.58	8.3	3.7 J A,B,C	4.6 J C	9.2 A,B,C	3.9 J C	6.9 A,B,C	3.3 J A,B,C	6.1 A,B,C	4.1 J A,B,C	3.3 J A,B,C	3.5 J A,B,C	3.9 J A,B,C	3.7 J A,B,C
Barium ²	15,300	100,000	164.8	364	48.0	72.1	105	49.9	86.2	85.8	128	47.8	20.0	94.4	43.7	43.1
Cadmium ³	71	885	0.75	1.07	0.15 J	0.23 J	0.43 J	0.19 J	0.19 J	0.28 J	7.7 C,D	0.15 J	0.16 J	0.18 J	0.21 J	0.14 J
Chromium	--	--	360,000	43.5	19.5	19.0	38.0	20.4	20.4	27.1	14.0	9.3	27.9	16.1	14.2	
Lead ²	400	800	27	51.6	7.0	9.8	214 C,D	8.2	13.8	9.0	135 C,D	7.8	7.1	8.7	6.9	6.6
Mercury	3.13	3.13	0.21	--	0.015 J	<0.010	0.59 C	<0.010	<0.010	0.016 J	0.013 J	<0.010	<0.010	0.020 MO	<0.010	0.012 J
Selenium	391	5,840	0.52	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.5 J C	<0.2	<0.2	<0.2	<0.2	<0.2
Silver	391	5,840	0.85	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Notes:
VOCs = Volatile Organic Compounds
PAHs = Polynuclear Aromatic Hydrocarbons
RCL = Residual Contaminant Level
BTV = Background Threshold Value
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
¹ Groundwater Pathway RCL listed is for 1,2,4- and 1,3,5-Trimethylbenzenes combined.
² Direct Contact RCL listed is for the more stringent m-Xylene.
³ Parameter BTV is larger than one or more of the RCLs or is the only standard available.
A Parameter exceeds NR 720 Residual Contaminant Level (RCL) for Non-Industrial Direct Contact.
B Parameter exceeds NR 720 RCL for Industrial Direct Contact.
C Parameter exceeds NR 720 RCL for Groundwater Pathway.
D Parameter exceeds Surficial BTV for metals.
J Estimated concentration at or above the LOD and below the LOQ.
MO = Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
-- No RCL or Surficial BTV established.
Direct contact RCL exceedances apply to soil from 0 to 4 feet below ground surface.
Soil RCLs and surficial BTVs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, March 2017).

October 18, 2017

Jeanne Tarvin
Ramboll Environ
175 North Corporate Drive
Suite 160
Brookfield, WI 53045

RE: Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Dear Jeanne Tarvin:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jim Hutchens, Ramboll Environ
Jim Kane, Ramboll Environ
Snejana Karakis, Environ
David L. Markelz, Ramboll Environ
Michelle Murphy, Environ
Susan Petrofske, Ramboll Environ
Abigail M. Wedig, Environ International Corp



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158427001	B-2 (3-4')	Solid	10/09/17 09:15	10/11/17 09:25
40158427002	B-2 (12-13')	Solid	10/09/17 09:20	10/11/17 09:25
40158427003	B-1 (3-4')	Solid	10/09/17 10:00	10/11/17 09:25
40158427004	B-1 (11.5-12.5')	Solid	10/09/17 10:05	10/11/17 09:25
40158427005	B-4 (2-3')	Solid	10/09/17 10:50	10/11/17 09:25
40158427006	B-4 (10-11')	Solid	10/09/17 10:55	10/11/17 09:25
40158427007	TRIP BLANK	Solid	10/09/17 00:00	10/11/17 09:25
40158427008	B-3 (3-4')	Solid	10/09/17 11:35	10/11/17 09:25
40158427009	B-3 (11-12')	Solid	10/09/17 11:40	10/11/17 09:25
40158427010	B-5 (12.5-13.5')	Solid	10/09/17 12:15	10/11/17 09:25
40158427011	B-5 (14-15')	Solid	10/09/17 12:20	10/11/17 09:25
40158427012	B-6 (3-4')	Solid	10/09/17 12:55	10/11/17 09:25
40158427013	B-6 (11-12')	Solid	10/09/17 13:00	10/11/17 09:25
40158427014	TW-2	Water	10/10/17 08:55	10/11/17 09:25
40158427015	TW-1	Water	10/10/17 09:40	10/11/17 09:25
40158427016	TW-4	Water	10/10/17 10:10	10/11/17 09:25
40158427017	TW-3	Water	10/10/17 10:30	10/11/17 09:25
40158427018	TW-5	Water	10/10/17 11:05	10/11/17 09:25
40158427019	TW-6	Water	10/10/17 11:35	10/11/17 09:25

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SAMPLE ANALYTE COUNT

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40158427001	B-2 (3-4')	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	LAP	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40158427002	B-2 (12-13')	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40158427003	B-1 (3-4')	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40158427004	B-1 (11.5-12.5')	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40158427005	B-4 (2-3')	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40158427006	B-4 (10-11')	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40158427007	TRIP BLANK	EPA 8260	SMT	65	PASI-G
40158427008	B-3 (3-4')	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40158427009	B-3 (11-12')	EPA 6010	JLD	7	PASI-G

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SAMPLE ANALYTE COUNT

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40158427010	B-5 (12.5-13.5')	EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40158427011	B-5 (14-15')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40158427012	B-6 (3-4')	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40158427013	B-6 (11-12')	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
40158427014	TW-2	ASTM D2974-87	RMV	1	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	65	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7470	AJT	1	PASI-G
40158427015	TW-1	EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	65	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	65	PASI-G
		EPA 6010	JLD	7	PASI-G
40158427016	TW-4	EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	65	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	65	PASI-G
40158427017	TW-3	EPA 6010	JLD	7	PASI-G
		EPA 8260	HNW	65	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40158427018	TW-5	EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	65	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7470	AJT	1	PASI-G
40158427019	TW-6	EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	65	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	65	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40158427001	B-2 (3-4')					
EPA 6010	Arsenic	8.2	mg/kg	6.0	10/13/17 21:48	
EPA 6010	Barium	105	mg/kg	0.60	10/13/17 21:48	
EPA 6010	Cadmium	0.43J	mg/kg	0.60	10/13/17 21:48	
EPA 6010	Chromium	39.0	mg/kg	1.2	10/13/17 21:48	
EPA 6010	Lead	214	mg/kg	1.6	10/13/17 21:48	
EPA 7471	Mercury	0.59	mg/kg	0.044	10/17/17 11:45	
EPA 8270 by SIM	Acenaphthene	13.3J	ug/kg	16.2	10/13/17 14:56	
EPA 8270 by SIM	Acenaphthylene	6.3J	ug/kg	13.8	10/13/17 14:56	
EPA 8270 by SIM	Anthracene	25.3	ug/kg	23.9	10/13/17 14:56	
EPA 8270 by SIM	Benzo(a)anthracene	64.3	ug/kg	13.3	10/13/17 14:56	
EPA 8270 by SIM	Benzo(a)pyrene	65.7	ug/kg	10.5	10/13/17 14:56	
EPA 8270 by SIM	Benzo(b)fluoranthene	79.0	ug/kg	11.8	10/13/17 14:56	
EPA 8270 by SIM	Benzo(g,h,i)perylene	38.8	ug/kg	8.5	10/13/17 14:56	
EPA 8270 by SIM	Benzo(k)fluoranthene	33.5	ug/kg	10.5	10/13/17 14:56	
EPA 8270 by SIM	Chrysene	67.2	ug/kg	14.1	10/13/17 14:56	
EPA 8270 by SIM	Dibenz(a,h)anthracene	9.0J	ug/kg	9.4	10/13/17 14:56	
EPA 8270 by SIM	Fluoranthene	143	ug/kg	21.9	10/13/17 14:56	
EPA 8270 by SIM	Fluorene	15.0J	ug/kg	17.3	10/13/17 14:56	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	34.6	ug/kg	9.2	10/13/17 14:56	
EPA 8270 by SIM	1-Methylnaphthalene	7.5J	ug/kg	16.8	10/13/17 14:56	
EPA 8270 by SIM	2-Methylnaphthalene	7.7J	ug/kg	21.0	10/13/17 14:56	
EPA 8270 by SIM	Naphthalene	20.4J	ug/kg	35.3	10/13/17 14:56	
EPA 8270 by SIM	Phenanthrene	128	ug/kg	48.7	10/13/17 14:56	
EPA 8270 by SIM	Pyrene	126	ug/kg	18.8	10/13/17 14:56	
ASTM D2974-87	Percent Moisture	20.4	%	0.10	10/16/17 11:11	
40158427002	B-2 (12-13')					
EPA 6010	Arsenic	3.9J	mg/kg	5.7	10/13/17 21:50	
EPA 6010	Barium	49.9	mg/kg	0.57	10/13/17 21:50	
EPA 6010	Cadmium	0.19J	mg/kg	0.57	10/13/17 21:50	
EPA 6010	Chromium	18.3	mg/kg	1.1	10/13/17 21:50	
EPA 6010	Lead	8.2	mg/kg	1.5	10/13/17 21:50	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	10/16/17 11:11	
40158427003	B-1 (3-4')					
EPA 6010	Arsenic	3.7J	mg/kg	5.3	10/13/17 21:52	
EPA 6010	Barium	48.0	mg/kg	0.53	10/13/17 21:52	
EPA 6010	Cadmium	0.15J	mg/kg	0.53	10/13/17 21:52	
EPA 6010	Chromium	19.5	mg/kg	1.1	10/13/17 21:52	
EPA 6010	Lead	7.0	mg/kg	1.4	10/13/17 21:52	
EPA 7471	Mercury	0.015J	mg/kg	0.038	10/17/17 11:49	
EPA 8270 by SIM	Benzo(a)anthracene	11.7J	ug/kg	11.8	10/13/17 15:30	
EPA 8270 by SIM	Benzo(a)pyrene	12.1	ug/kg	9.3	10/13/17 15:30	
EPA 8270 by SIM	Benzo(b)fluoranthene	20.6	ug/kg	10.5	10/13/17 15:30	
EPA 8270 by SIM	Benzo(g,h,i)perylene	11.1	ug/kg	7.5	10/13/17 15:30	
EPA 8270 by SIM	Benzo(k)fluoranthene	7.1J	ug/kg	9.3	10/13/17 15:30	
EPA 8270 by SIM	Chrysene	15.2	ug/kg	12.5	10/13/17 15:30	
EPA 8270 by SIM	Fluoranthene	33.9	ug/kg	19.3	10/13/17 15:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40158427003	B-1 (3-4')					
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	8.3	ug/kg	8.2	10/13/17 15:30	
EPA 8270 by SIM	Phenanthrene	15.6J	ug/kg	43.1	10/13/17 15:30	
EPA 8270 by SIM	Pyrene	27.9	ug/kg	16.7	10/13/17 15:30	
EPA 8260	Tetrachloroethene	44.8J	ug/kg	66.6	10/12/17 20:50	
ASTM D2974-87	Percent Moisture	10	%	0.10	10/16/17 11:11	
40158427004	B-1 (11.5-12.5')					
EPA 6010	Arsenic	4.6J	mg/kg	5.5	10/13/17 21:55	
EPA 6010	Barium	72.1	mg/kg	0.55	10/13/17 21:55	
EPA 6010	Cadmium	0.23J	mg/kg	0.55	10/13/17 21:55	
EPA 6010	Chromium	19.0	mg/kg	1.1	10/13/17 21:55	
EPA 6010	Lead	9.8	mg/kg	1.4	10/13/17 21:55	
EPA 8270 by SIM	Acenaphthene	7.1J	ug/kg	15.3	10/13/17 15:48	
EPA 8270 by SIM	Benzo(a)anthracene	17.3	ug/kg	12.6	10/13/17 15:48	
EPA 8270 by SIM	Benzo(a)pyrene	15.3	ug/kg	9.9	10/13/17 15:48	
EPA 8270 by SIM	Benzo(b)fluoranthene	21.8	ug/kg	11.2	10/13/17 15:48	
EPA 8270 by SIM	Benzo(g,h,i)perylene	10.7	ug/kg	8.0	10/13/17 15:48	
EPA 8270 by SIM	Benzo(k)fluoranthene	9.4J	ug/kg	9.9	10/13/17 15:48	
EPA 8270 by SIM	Chrysene	21.5	ug/kg	13.3	10/13/17 15:48	
EPA 8270 by SIM	Fluoranthene	52.2	ug/kg	20.7	10/13/17 15:48	
EPA 8270 by SIM	Fluorene	6.2J	ug/kg	16.4	10/13/17 15:48	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	9.2	ug/kg	8.7	10/13/17 15:48	
EPA 8270 by SIM	Phenanthrene	53.0	ug/kg	46.1	10/13/17 15:48	
EPA 8270 by SIM	Pyrene	43.9	ug/kg	17.8	10/13/17 15:48	
ASTM D2974-87	Percent Moisture	16.0	%	0.10	10/16/17 11:11	
40158427005	B-4 (2-3')					
EPA 6010	Arsenic	6.1	mg/kg	5.9	10/13/17 21:57	
EPA 6010	Barium	128	mg/kg	0.59	10/13/17 21:57	
EPA 6010	Cadmium	7.7	mg/kg	0.59	10/13/17 21:57	
EPA 6010	Chromium	14.0	mg/kg	1.2	10/13/17 21:57	
EPA 6010	Lead	135	mg/kg	1.5	10/13/17 21:57	
EPA 6010	Selenium	1.5J	mg/kg	5.9	10/13/17 21:57	
EPA 7471	Mercury	0.013J	mg/kg	0.041	10/17/17 11:54	
EPA 8270 by SIM	Anthracene	10.6J	ug/kg	22.4	10/13/17 16:05	
EPA 8270 by SIM	Benzo(a)anthracene	27.6	ug/kg	12.5	10/13/17 16:05	
EPA 8270 by SIM	Benzo(a)pyrene	26.3	ug/kg	9.9	10/13/17 16:05	
EPA 8270 by SIM	Benzo(b)fluoranthene	39.9	ug/kg	11.1	10/13/17 16:05	
EPA 8270 by SIM	Benzo(g,h,i)perylene	20.9	ug/kg	8.0	10/13/17 16:05	
EPA 8270 by SIM	Benzo(k)fluoranthene	14.4	ug/kg	9.9	10/13/17 16:05	
EPA 8270 by SIM	Chrysene	33.7	ug/kg	13.2	10/13/17 16:05	
EPA 8270 by SIM	Dibenz(a,h)anthracene	4.4J	ug/kg	8.8	10/13/17 16:05	
EPA 8270 by SIM	Fluoranthene	77.5	ug/kg	20.5	10/13/17 16:05	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	17.4	ug/kg	8.7	10/13/17 16:05	
EPA 8270 by SIM	Phenanthrene	57.0	ug/kg	45.8	10/13/17 16:05	
EPA 8270 by SIM	Pyrene	61.1	ug/kg	17.7	10/13/17 16:05	
EPA 8260	Tetrachloroethene	371	ug/kg	70.9	10/12/17 21:36	
ASTM D2974-87	Percent Moisture	15.3	%	0.10	10/16/17 12:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40158427006	B-4 (10-11')					
EPA 6010	Arsenic	4.1J	mg/kg	5.7	10/13/17 22:00	
EPA 6010	Barium	47.8	mg/kg	0.57	10/13/17 22:00	
EPA 6010	Cadmium	0.15J	mg/kg	0.57	10/13/17 22:00	
EPA 6010	Chromium	17.7	mg/kg	1.1	10/13/17 22:00	
EPA 6010	Lead	7.8	mg/kg	1.5	10/13/17 22:00	
EPA 8270 by SIM	Benzo(a)pyrene	3.7J	ug/kg	9.5	10/13/17 16:22	
EPA 8270 by SIM	Benzo(b)fluoranthene	4.7J	ug/kg	10.7	10/13/17 16:22	
EPA 8270 by SIM	Benzo(g,h,i)perylene	5.1J	ug/kg	7.7	10/13/17 16:22	
EPA 8270 by SIM	Fluoranthene	6.5J	ug/kg	19.8	10/13/17 16:22	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	2.6J	ug/kg	8.4	10/13/17 16:22	
EPA 8270 by SIM	Pyrene	5.4J	ug/kg	17.1	10/13/17 16:22	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	10/16/17 13:20	
40158427008	B-3 (3-4')					
EPA 6010	Arsenic	6.9	mg/kg	5.4	10/13/17 22:07	
EPA 6010	Barium	86.2	mg/kg	0.54	10/13/17 22:07	
EPA 6010	Cadmium	0.19J	mg/kg	0.54	10/13/17 22:07	
EPA 6010	Chromium	20.4	mg/kg	1.1	10/13/17 22:07	
EPA 6010	Lead	13.8	mg/kg	1.4	10/13/17 22:07	
EPA 8270 by SIM	Acenaphthene	9.3J	ug/kg	15.0	10/13/17 16:39	
EPA 8270 by SIM	Anthracene	16.7J	ug/kg	22.1	10/13/17 16:39	
EPA 8270 by SIM	Benzo(a)anthracene	26.0	ug/kg	12.4	10/13/17 16:39	
EPA 8270 by SIM	Benzo(a)pyrene	20.2	ug/kg	9.8	10/13/17 16:39	
EPA 8270 by SIM	Benzo(b)fluoranthene	25.7	ug/kg	11.0	10/13/17 16:39	
EPA 8270 by SIM	Benzo(g,h,i)perylene	11.6	ug/kg	7.9	10/13/17 16:39	
EPA 8270 by SIM	Benzo(k)fluoranthene	10.9	ug/kg	9.7	10/13/17 16:39	
EPA 8270 by SIM	Chrysene	24.4	ug/kg	13.1	10/13/17 16:39	
EPA 8270 by SIM	Dibenz(a,h)anthracene	3.2J	ug/kg	8.7	10/13/17 16:39	
EPA 8270 by SIM	Fluoranthene	66.1	ug/kg	20.3	10/13/17 16:39	
EPA 8270 by SIM	Fluorene	9.7J	ug/kg	16.1	10/13/17 16:39	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	9.9	ug/kg	8.5	10/13/17 16:39	
EPA 8270 by SIM	Phenanthrene	79.8	ug/kg	45.2	10/13/17 16:39	
EPA 8270 by SIM	Pyrene	56.2	ug/kg	17.5	10/13/17 16:39	
EPA 8260	Tetrachloroethene	44.6J	ug/kg	69.8	10/12/17 22:22	
ASTM D2974-87	Percent Moisture	14.1	%	0.10	10/16/17 13:20	
40158427009	B-3 (11-12')					
EPA 6010	Arsenic	3.3J	mg/kg	5.6	10/13/17 22:10	
EPA 6010	Barium	65.6	mg/kg	0.56	10/13/17 22:10	
EPA 6010	Cadmium	0.28J	mg/kg	0.56	10/13/17 22:10	
EPA 6010	Chromium	27.1	mg/kg	1.1	10/13/17 22:10	
EPA 6010	Lead	9.0	mg/kg	1.5	10/13/17 22:10	
EPA 7471	Mercury	0.016J	mg/kg	0.043	10/17/17 12:06	
EPA 8270 by SIM	Benzo(a)anthracene	5.5J	ug/kg	12.6	10/13/17 16:56	
EPA 8270 by SIM	Benzo(a)pyrene	4.9J	ug/kg	9.9	10/13/17 16:56	
EPA 8270 by SIM	Benzo(b)fluoranthene	7.1J	ug/kg	11.1	10/13/17 16:56	
EPA 8270 by SIM	Benzo(g,h,i)perylene	4.3J	ug/kg	8.0	10/13/17 16:56	
EPA 8270 by SIM	Chrysene	6.6J	ug/kg	13.3	10/13/17 16:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40158427009	B-3 (11-12')					
EPA 8270 by SIM	Fluoranthene	15.2J	ug/kg	20.6	10/13/17 16:56	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	3.0J	ug/kg	8.7	10/13/17 16:56	
EPA 8270 by SIM	Pyrene	12.5J	ug/kg	17.8	10/13/17 16:56	
ASTM D2974-87	Percent Moisture	15.4	%	0.10	10/16/17 12:45	
40158427010	B-5 (12.5-13.5')					
EPA 6010	Arsenic	3.3J	mg/kg	5.4	10/13/17 22:12	
EPA 6010	Barium	20.0	mg/kg	0.54	10/13/17 22:12	
EPA 6010	Cadmium	0.16J	mg/kg	0.54	10/13/17 22:12	
EPA 6010	Chromium	9.3	mg/kg	1.1	10/13/17 22:12	
EPA 6010	Lead	7.1	mg/kg	1.4	10/13/17 22:12	
EPA 8270 by SIM	Benzo(b)fluoranthene	3.5J	ug/kg	10.6	10/13/17 17:13	
EPA 8270 by SIM	1-Methylnaphthalene	12.1J	ug/kg	15.1	10/13/17 17:13	
EPA 8270 by SIM	Naphthalene	52.5	ug/kg	31.7	10/13/17 17:13	
EPA 8260	Chloroform	151J	ug/kg	282	10/12/17 23:09	
EPA 8260	Ethylbenzene	74.1	ug/kg	67.7	10/12/17 23:09	
EPA 8260	Isopropylbenzene (Cumene)	112	ug/kg	67.7	10/12/17 23:09	
EPA 8260	n-Butylbenzene	324	ug/kg	67.7	10/12/17 23:09	
EPA 8260	n-Propylbenzene	545	ug/kg	67.7	10/12/17 23:09	
EPA 8260	sec-Butylbenzene	159	ug/kg	67.7	10/12/17 23:09	
ASTM D2974-87	Percent Moisture	11.4	%	0.10	10/16/17 12:45	
40158427011	B-5 (14-15')					
EPA 6010	Arsenic	3.5J	mg/kg	5.4	10/13/17 22:15	
EPA 6010	Barium	94.4	mg/kg	0.54	10/13/17 22:15	
EPA 6010	Cadmium	0.18J	mg/kg	0.54	10/13/17 22:15	
EPA 6010	Chromium	27.9	mg/kg	1.1	10/13/17 22:15	
EPA 6010	Lead	8.7	mg/kg	1.4	10/13/17 22:15	
EPA 7471	Mercury	0.020J	mg/kg	0.045	10/17/17 12:15	MO
EPA 8270 by SIM	1-Methylnaphthalene	47.0	ug/kg	16.5	10/13/17 17:31	
EPA 8270 by SIM	2-Methylnaphthalene	8.4J	ug/kg	20.5	10/13/17 17:31	
EPA 8270 by SIM	Naphthalene	35.3	ug/kg	34.6	10/13/17 17:31	
EPA 8260	1,2,4-Trimethylbenzene	36.6J	ug/kg	73.8	10/13/17 01:28	
EPA 8260	Chloroform	133J	ug/kg	307	10/13/17 01:28	
EPA 8260	Ethylbenzene	1060	ug/kg	73.8	10/13/17 01:28	
EPA 8260	Isopropylbenzene (Cumene)	211	ug/kg	73.8	10/13/17 01:28	
EPA 8260	n-Butylbenzene	152	ug/kg	73.8	10/13/17 01:28	
EPA 8260	n-Propylbenzene	778	ug/kg	73.8	10/13/17 01:28	
EPA 8260	sec-Butylbenzene	46.5J	ug/kg	73.8	10/13/17 01:28	
ASTM D2974-87	Percent Moisture	18.6	%	0.10	10/16/17 12:45	
40158427012	B-6 (3-4')					
EPA 6010	Arsenic	3.9J	mg/kg	5.3	10/13/17 22:17	
EPA 6010	Barium	43.7	mg/kg	0.53	10/13/17 22:17	
EPA 6010	Cadmium	0.21J	mg/kg	0.53	10/13/17 22:17	
EPA 6010	Chromium	16.1	mg/kg	1.1	10/13/17 22:17	
EPA 6010	Lead	6.9	mg/kg	1.4	10/13/17 22:17	
EPA 8270 by SIM	Benzo(a)anthracene	5.9J	ug/kg	12.2	10/13/17 17:48	
EPA 8270 by SIM	Benzo(a)pyrene	4.2J	ug/kg	9.7	10/13/17 17:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40158427012	B-6 (3-4')					
EPA 8270 by SIM	Benzo(b)fluoranthene	6.5J	ug/kg	10.9	10/13/17 17:48	
EPA 8270 by SIM	Benzo(g,h,i)perylene	3.2J	ug/kg	7.8	10/13/17 17:48	
EPA 8270 by SIM	Chrysene	6.5J	ug/kg	12.9	10/13/17 17:48	
EPA 8270 by SIM	Fluoranthene	10.7J	ug/kg	20.1	10/13/17 17:48	
EPA 8270 by SIM	Pyrene	12.1J	ug/kg	17.3	10/13/17 17:48	
EPA 8260	Tetrachloroethene	109	ug/kg	69.3	10/13/17 01:51	
ASTM D2974-87	Percent Moisture	13.4	%	0.10	10/16/17 12:45	
40158427013	B-6 (11-12')					
EPA 6010	Arsenic	3.7J	mg/kg	5.4	10/13/17 22:19	
EPA 6010	Barium	43.1	mg/kg	0.54	10/13/17 22:19	
EPA 6010	Cadmium	0.14J	mg/kg	0.54	10/13/17 22:19	
EPA 6010	Chromium	14.2	mg/kg	1.1	10/13/17 22:19	
EPA 6010	Lead	6.6	mg/kg	1.4	10/13/17 22:19	
EPA 7471	Mercury	0.012J	mg/kg	0.040	10/17/17 12:29	
EPA 8270 by SIM	1-Methylnaphthalene	5.0J	ug/kg	15.0	10/13/17 18:05	
EPA 8270 by SIM	Naphthalene	10.0J	ug/kg	31.5	10/13/17 18:05	
EPA 8260	Ethylbenzene	61.8J	ug/kg	67.3	10/13/17 02:14	
EPA 8260	Tetrachloroethene	39.1J	ug/kg	67.3	10/13/17 02:14	
EPA 8260	n-Propylbenzene	32.5J	ug/kg	67.3	10/13/17 02:14	
ASTM D2974-87	Percent Moisture	10.8	%	0.10	10/16/17 12:46	
40158427014	TW-2					
EPA 6010	Barium	170	ug/L	5.0	10/12/17 17:29	
EPA 8270 by HVI	Acenaphthene	0.022J	ug/L	0.062	10/13/17 16:26	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.024J	ug/L	0.059	10/13/17 16:26	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.019J	ug/L	0.069	10/13/17 16:26	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.020J	ug/L	0.077	10/13/17 16:26	
EPA 8270 by HVI	Chrysene	0.040J	ug/L	0.13	10/13/17 16:26	
EPA 8270 by HVI	Fluoranthene	0.13	ug/L	0.11	10/13/17 16:26	
EPA 8270 by HVI	Phenanthrene	0.089J	ug/L	0.14	10/13/17 16:26	
EPA 8270 by HVI	Pyrene	0.11	ug/L	0.078	10/13/17 16:26	
EPA 8270 by HVI	Total PAHs	0.55	ug/L		10/13/17 16:26	
EPA 8260	Methylene Chloride	0.46J	ug/L	1.0	10/12/17 15:48	B
40158427015	TW-1					
EPA 6010	Arsenic	10J	ug/L	25.0	10/12/17 17:31	
EPA 6010	Barium	239	ug/L	5.0	10/12/17 17:31	
EPA 8270 by HVI	Acenaphthene	0.051	ug/L	0.031	10/13/17 16:44	
EPA 8270 by HVI	Acenaphthylene	0.0082J	ug/L	0.026	10/13/17 16:44	
EPA 8270 by HVI	Anthracene	0.060	ug/L	0.054	10/13/17 16:44	
EPA 8270 by HVI	Benzo(a)anthracene	0.088	ug/L	0.039	10/13/17 16:44	
EPA 8270 by HVI	Benzo(a)pyrene	0.075	ug/L	0.054	10/13/17 16:44	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.12	ug/L	0.030	10/13/17 16:44	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.077	ug/L	0.035	10/13/17 16:44	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.074	ug/L	0.039	10/13/17 16:44	
EPA 8270 by HVI	Chrysene	0.17	ug/L	0.067	10/13/17 16:44	
EPA 8270 by HVI	Dibenz(a,h)anthracene	0.013J	ug/L	0.052	10/13/17 16:44	
EPA 8270 by HVI	Fluoranthene	0.35	ug/L	0.055	10/13/17 16:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40158427015	TW-1					
EPA 8270 by HVI	Fluorene	0.040J	ug/L	0.041	10/13/17 16:44	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.059J	ug/L	0.091	10/13/17 16:44	
EPA 8270 by HVI	1-Methylnaphthalene	0.033	ug/L	0.030	10/13/17 16:44	
EPA 8270 by HVI	2-Methylnaphthalene	0.036	ug/L	0.025	10/13/17 16:44	
EPA 8270 by HVI	Naphthalene	0.17	ug/L	0.094	10/13/17 16:44	
EPA 8270 by HVI	Phenanthrene	0.33	ug/L	0.071	10/13/17 16:44	
EPA 8270 by HVI	Pyrene	0.32	ug/L	0.039	10/13/17 16:44	
EPA 8270 by HVI	Total PAHs	2.1	ug/L		10/13/17 16:44	
EPA 8260	Methylene Chloride	0.42J	ug/L	1.0	10/12/17 13:35	B
40158427016	TW-4					
EPA 6010	Barium	141	ug/L	5.0	10/12/17 17:39	
EPA 8270 by HVI	Acenaphthene	0.014J	ug/L	0.032	10/13/17 17:03	
EPA 8270 by HVI	Anthracene	0.014J	ug/L	0.056	10/13/17 17:03	
EPA 8270 by HVI	Benzo(a)anthracene	0.030J	ug/L	0.040	10/13/17 17:03	
EPA 8270 by HVI	Benzo(a)pyrene	0.031J	ug/L	0.056	10/13/17 17:03	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.067	ug/L	0.031	10/13/17 17:03	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.046	ug/L	0.036	10/13/17 17:03	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.036J	ug/L	0.040	10/13/17 17:03	
EPA 8270 by HVI	Chrysene	0.071	ug/L	0.069	10/13/17 17:03	
EPA 8270 by HVI	Fluoranthene	0.21	ug/L	0.057	10/13/17 17:03	
EPA 8270 by HVI	Fluorene	0.014J	ug/L	0.042	10/13/17 17:03	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.034J	ug/L	0.094	10/13/17 17:03	
EPA 8270 by HVI	1-Methylnaphthalene	0.0082J	ug/L	0.031	10/13/17 17:03	
EPA 8270 by HVI	2-Methylnaphthalene	0.012J	ug/L	0.026	10/13/17 17:03	
EPA 8270 by HVI	Phenanthrene	0.17	ug/L	0.073	10/13/17 17:03	
EPA 8270 by HVI	Pyrene	0.17	ug/L	0.041	10/13/17 17:03	
EPA 8270 by HVI	Total PAHs	0.95	ug/L		10/13/17 17:03	
EPA 8260	Methylene Chloride	0.46J	ug/L	1.0	10/12/17 13:58	B
40158427017	TW-3					
EPA 6010	Barium	114	ug/L	5.0	10/12/17 17:41	
EPA 8270 by HVI	Acenaphthene	0.0084J	ug/L	0.039	10/13/17 17:21	
EPA 8270 by HVI	Benzo(a)anthracene	0.023J	ug/L	0.049	10/13/17 17:21	
EPA 8270 by HVI	Benzo(a)pyrene	0.020J	ug/L	0.068	10/13/17 17:21	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.043	ug/L	0.037	10/13/17 17:21	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.033J	ug/L	0.044	10/13/17 17:21	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.026J	ug/L	0.049	10/13/17 17:21	
EPA 8270 by HVI	Chrysene	0.066J	ug/L	0.085	10/13/17 17:21	
EPA 8270 by HVI	Fluoranthene	0.15	ug/L	0.069	10/13/17 17:21	
EPA 8270 by HVI	1-Methylnaphthalene	0.012J	ug/L	0.038	10/13/17 17:21	
EPA 8270 by HVI	2-Methylnaphthalene	0.014J	ug/L	0.032	10/13/17 17:21	
EPA 8270 by HVI	Phenanthrene	0.13	ug/L	0.090	10/13/17 17:21	
EPA 8270 by HVI	Pyrene	0.14	ug/L	0.050	10/13/17 17:21	
EPA 8270 by HVI	Total PAHs	0.71	ug/L		10/13/17 17:21	
EPA 8260	cis-1,2-Dichloroethene	3.3	ug/L	1.0	10/12/17 14:42	
EPA 8260	trans-1,2-Dichloroethene	0.65J	ug/L	1.0	10/12/17 14:42	
EPA 8260	Methylene Chloride	0.31J	ug/L	1.0	10/12/17 14:42	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40158427017	TW-3					
EPA 8260	Tetrachloroethene	188	ug/L	1.0	10/12/17 14:42	
EPA 8260	Trichloroethene	8.5	ug/L	1.0	10/12/17 14:42	
40158427018	TW-5					
EPA 6010	Barium	370	ug/L	5.0	10/12/17 17:44	
EPA 8270 by HVI	Acenaphthene	0.028J	ug/L	0.033	10/13/17 21:01	
EPA 8270 by HVI	Acenaphthylene	0.0062J	ug/L	0.027	10/13/17 21:01	
EPA 8270 by HVI	Benzo(a)anthracene	0.0085J	ug/L	0.041	10/13/17 21:01	
EPA 8270 by HVI	Chrysene	0.031J	ug/L	0.070	10/13/17 21:01	
EPA 8270 by HVI	Fluoranthene	0.033J	ug/L	0.057	10/13/17 21:01	
EPA 8270 by HVI	Fluorene	0.017J	ug/L	0.043	10/13/17 21:01	
EPA 8270 by HVI	1-Methylnaphthalene	1.4	ug/L	0.032	10/13/17 21:01	
EPA 8270 by HVI	2-Methylnaphthalene	0.041	ug/L	0.026	10/13/17 21:01	
EPA 8270 by HVI	Naphthalene	2.5	ug/L	0.099	10/13/17 21:01	
EPA 8270 by HVI	Phenanthrene	0.073J	ug/L	0.074	10/13/17 21:01	
EPA 8270 by HVI	Pyrene	0.030J	ug/L	0.041	10/13/17 21:01	
EPA 8270 by HVI	Total PAHs	4.2	ug/L		10/13/17 21:01	
EPA 8260	Benzene	12.3	ug/L	1.0	10/12/17 14:20	
EPA 8260	n-Butylbenzene	13.5	ug/L	1.0	10/12/17 14:20	
EPA 8260	sec-Butylbenzene	7.3	ug/L	5.0	10/12/17 14:20	
EPA 8260	tert-Butylbenzene	0.67J	ug/L	1.0	10/12/17 14:20	
EPA 8260	1,2-Dichloroethane	2.2	ug/L	1.0	10/12/17 14:20	
EPA 8260	cis-1,2-Dichloroethene	3.4	ug/L	1.0	10/12/17 14:20	
EPA 8260	trans-1,2-Dichloroethene	2.0	ug/L	1.0	10/12/17 14:20	
EPA 8260	Ethylbenzene	23.6	ug/L	1.0	10/12/17 14:20	
EPA 8260	Isopropylbenzene (Cumene)	12.7	ug/L	1.0	10/12/17 14:20	
EPA 8260	p-Isopropyltoluene	3.2	ug/L	1.0	10/12/17 14:20	
EPA 8260	n-Propylbenzene	47.7	ug/L	1.0	10/12/17 14:20	
EPA 8260	Tetrachloroethene	2.0	ug/L	1.0	10/12/17 14:20	
EPA 8260	Toluene	0.68J	ug/L	1.0	10/12/17 14:20	
EPA 8260	1,2,4-Trimethylbenzene	17.9	ug/L	1.0	10/12/17 14:20	
EPA 8260	Vinyl chloride	0.43J	ug/L	1.0	10/12/17 14:20	
EPA 8260	m&p-Xylene	1.2J	ug/L	2.0	10/12/17 14:20	L1
40158427019	TW-6					
EPA 6010	Arsenic	10.9J	ug/L	25.0	10/12/17 17:47	
EPA 6010	Barium	204	ug/L	5.0	10/12/17 17:47	
EPA 8270 by HVI	Acenaphthene	0.015J	ug/L	0.034	10/13/17 20:43	
EPA 8270 by HVI	Acenaphthylene	0.0062J	ug/L	0.028	10/13/17 20:43	
EPA 8270 by HVI	Benzo(a)anthracene	0.0087J	ug/L	0.042	10/13/17 20:43	
EPA 8270 by HVI	Fluoranthene	0.066	ug/L	0.059	10/13/17 20:43	
EPA 8270 by HVI	Fluorene	0.011J	ug/L	0.044	10/13/17 20:43	
EPA 8270 by HVI	1-Methylnaphthalene	3.2	ug/L	0.033	10/13/17 20:43	
EPA 8270 by HVI	2-Methylnaphthalene	0.15	ug/L	0.027	10/13/17 20:43	
EPA 8270 by HVI	Naphthalene	5.6	ug/L	0.10	10/13/17 20:43	
EPA 8270 by HVI	Phenanthrene	0.10	ug/L	0.077	10/13/17 20:43	
EPA 8270 by HVI	Pyrene	0.055	ug/L	0.043	10/13/17 20:43	
EPA 8270 by HVI	Total PAHs	9.3	ug/L		10/13/17 20:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40158427019	TW-6					
EPA 8260	Benzene	681	ug/L	10.0	10/13/17 10:47	
EPA 8260	n-Butylbenzene	5.8J	ug/L	10.0	10/13/17 10:47	
EPA 8260	cis-1,2-Dichloroethene	4.9J	ug/L	10.0	10/13/17 10:47	
EPA 8260	Ethylbenzene	404	ug/L	10.0	10/13/17 10:47	
EPA 8260	Isopropylbenzene (Cumene)	9.3J	ug/L	10.0	10/13/17 10:47	
EPA 8260	n-Propylbenzene	21.8	ug/L	10.0	10/13/17 10:47	
EPA 8260	Toluene	65.1	ug/L	10.0	10/13/17 10:47	
EPA 8260	1,2,4-Trimethylbenzene	154	ug/L	10.0	10/13/17 10:47	
EPA 8260	1,3,5-Trimethylbenzene	7.5J	ug/L	10.0	10/13/17 10:47	
EPA 8260	Xylene (Total)	250	ug/L	30.0	10/13/17 10:47	LS
EPA 8260	m&p-Xylene	246	ug/L	20.0	10/13/17 10:47	L1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-2 (3-4) Lab ID: 40158427001 Collected: 10/09/17 09:15 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	8.2	mg/kg	6.0	1.3	1	10/12/17 15:03	10/13/17 21:48	7440-38-2	
Barium	105	mg/kg	0.60	0.18	1	10/12/17 15:03	10/13/17 21:48	7440-39-3	
Cadmium	0.43J	mg/kg	0.60	0.16	1	10/12/17 15:03	10/13/17 21:48	7440-43-9	
Chromium	39.0	mg/kg	1.2	0.34	1	10/12/17 15:03	10/13/17 21:48	7440-47-3	
Lead	214	mg/kg	1.6	0.52	1	10/12/17 15:03	10/13/17 21:48	7439-92-1	
Selenium	<1.3	mg/kg	6.0	1.3	1	10/12/17 15:03	10/13/17 21:48	7782-49-2	
Silver	<0.42	mg/kg	1.2	0.42	1	10/12/17 15:03	10/13/17 21:48	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.59	mg/kg	0.044	0.013	1	10/17/17 06:54	10/17/17 11:45	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	13.3J	ug/kg	16.2	4.9	1	10/13/17 08:32	10/13/17 14:56	83-32-9	
Acenaphthylene	6.3J	ug/kg	13.8	4.1	1	10/13/17 08:32	10/13/17 14:56	208-96-8	
Anthracene	25.3	ug/kg	23.9	7.2	1	10/13/17 08:32	10/13/17 14:56	120-12-7	
Benzo(a)anthracene	64.3	ug/kg	13.3	4.0	1	10/13/17 08:32	10/13/17 14:56	56-55-3	
Benzo(a)pyrene	65.7	ug/kg	10.5	3.2	1	10/13/17 08:32	10/13/17 14:56	50-32-8	
Benzo(b)fluoranthene	79.0	ug/kg	11.8	3.5	1	10/13/17 08:32	10/13/17 14:56	205-99-2	
Benzo(g,h,i)perylene	38.8	ug/kg	8.5	2.6	1	10/13/17 08:32	10/13/17 14:56	191-24-2	
Benzo(k)fluoranthene	33.5	ug/kg	10.5	3.2	1	10/13/17 08:32	10/13/17 14:56	207-08-9	
Chrysene	67.2	ug/kg	14.1	4.2	1	10/13/17 08:32	10/13/17 14:56	218-01-9	
Dibenz(a,h)anthracene	9.0J	ug/kg	9.4	2.8	1	10/13/17 08:32	10/13/17 14:56	53-70-3	
Fluoranthene	143	ug/kg	21.9	6.5	1	10/13/17 08:32	10/13/17 14:56	206-44-0	
Fluorene	15.0J	ug/kg	17.3	5.2	1	10/13/17 08:32	10/13/17 14:56	86-73-7	
Indeno(1,2,3-cd)pyrene	34.6	ug/kg	9.2	2.8	1	10/13/17 08:32	10/13/17 14:56	193-39-5	
1-Methylnaphthalene	7.5J	ug/kg	16.8	5.1	1	10/13/17 08:32	10/13/17 14:56	90-12-0	
2-Methylnaphthalene	7.7J	ug/kg	21.0	6.3	1	10/13/17 08:32	10/13/17 14:56	91-57-6	
Naphthalene	20.4J	ug/kg	35.3	10.6	1	10/13/17 08:32	10/13/17 14:56	91-20-3	
Phenanthrene	128	ug/kg	48.7	14.6	1	10/13/17 08:32	10/13/17 14:56	85-01-8	
Pyrene	126	ug/kg	18.8	5.7	1	10/13/17 08:32	10/13/17 14:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	23-106		1	10/13/17 08:32	10/13/17 14:56	321-60-8	
Terphenyl-d14 (S)	63	%	29-106		1	10/13/17 08:32	10/13/17 14:56	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 11:00	10/13/17 09:35	120-82-1	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-2 (3-4') Lab ID: 40158427001 Collected: 10/09/17 09:15 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 11:00	10/13/17 09:35	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 11:00	10/13/17 09:35	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 11:00	10/13/17 09:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 11:00	10/13/17 09:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 11:00	10/13/17 09:35	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 11:00	10/13/17 09:35	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 11:00	10/13/17 09:35	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-2 (3-4') Lab ID: 40158427001 Collected: 10/09/17 09:15 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 09:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	77	%	68-130		1	10/12/17 11:00	10/13/17 09:35	1868-53-7	
Toluene-d8 (S)	73	%	68-149		1	10/12/17 11:00	10/13/17 09:35	2037-26-5	
4-Bromofluorobenzene (S)	62	%	58-141		1	10/12/17 11:00	10/13/17 09:35	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	20.4	%	0.10	0.10	1		10/16/17 11:11		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-2 (12-13') Lab ID: 40158427002 Collected: 10/09/17 09:20 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.9J	mg/kg	5.7	1.2	1	10/12/17 15:03	10/13/17 21:50	7440-38-2	
Barium	49.9	mg/kg	0.57	0.17	1	10/12/17 15:03	10/13/17 21:50	7440-39-3	
Cadmium	0.19J	mg/kg	0.57	0.15	1	10/12/17 15:03	10/13/17 21:50	7440-43-9	
Chromium	18.3	mg/kg	1.1	0.31	1	10/12/17 15:03	10/13/17 21:50	7440-47-3	
Lead	8.2	mg/kg	1.5	0.49	1	10/12/17 15:03	10/13/17 21:50	7439-92-1	
Selenium	<1.3	mg/kg	5.7	1.3	1	10/12/17 15:03	10/13/17 21:50	7782-49-2	
Silver	<0.39	mg/kg	1.1	0.39	1	10/12/17 15:03	10/13/17 21:50	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.039	0.012	1	10/17/17 06:54	10/17/17 11:47	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.1	4.6	1	10/13/17 08:32	10/13/17 15:13	83-32-9	
Acenaphthylene	<3.9	ug/kg	12.9	3.9	1	10/13/17 08:32	10/13/17 15:13	208-96-8	
Anthracene	<6.7	ug/kg	22.3	6.7	1	10/13/17 08:32	10/13/17 15:13	120-12-7	
Benzo(a)anthracene	<3.7	ug/kg	12.4	3.7	1	10/13/17 08:32	10/13/17 15:13	56-55-3	
Benzo(a)pyrene	<2.9	ug/kg	9.8	2.9	1	10/13/17 08:32	10/13/17 15:13	50-32-8	
Benzo(b)fluoranthene	<3.3	ug/kg	11.0	3.3	1	10/13/17 08:32	10/13/17 15:13	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	7.9	2.4	1	10/13/17 08:32	10/13/17 15:13	191-24-2	
Benzo(k)fluoranthene	<2.9	ug/kg	9.8	2.9	1	10/13/17 08:32	10/13/17 15:13	207-08-9	
Chrysene	<4.0	ug/kg	13.1	4.0	1	10/13/17 08:32	10/13/17 15:13	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.7	2.6	1	10/13/17 08:32	10/13/17 15:13	53-70-3	
Fluoranthene	<6.1	ug/kg	20.4	6.1	1	10/13/17 08:32	10/13/17 15:13	206-44-0	
Fluorene	<4.9	ug/kg	16.2	4.9	1	10/13/17 08:32	10/13/17 15:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.6	2.6	1	10/13/17 08:32	10/13/17 15:13	193-39-5	
1-Methylnaphthalene	<4.7	ug/kg	15.7	4.7	1	10/13/17 08:32	10/13/17 15:13	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.6	5.9	1	10/13/17 08:32	10/13/17 15:13	91-57-6	
Naphthalene	<9.9	ug/kg	33.0	9.9	1	10/13/17 08:32	10/13/17 15:13	91-20-3	
Phenanthrene	<13.7	ug/kg	45.5	13.7	1	10/13/17 08:32	10/13/17 15:13	85-01-8	
Pyrene	<5.3	ug/kg	17.6	5.3	1	10/13/17 08:32	10/13/17 15:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	23-106		1	10/13/17 08:32	10/13/17 15:13	321-60-8	
Terphenyl-d14 (S)	54	%	29-106		1	10/13/17 08:32	10/13/17 15:13	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 20:26	120-82-1	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-2 (12-13') Lab ID: 40158427002 Collected: 10/09/17 09:20 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 20:26	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 20:26	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 20:26	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 07:15	10/12/17 20:26	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 20:26	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 20:26	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 20:26	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	104-51-8	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-2 (12-13') Lab ID: 40158427002 Collected: 10/09/17 09:20 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:26	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	90	%	68-130		1	10/12/17 07:15	10/12/17 20:26	1868-53-7	
Toluene-d8 (S)	89	%	68-149		1	10/12/17 07:15	10/12/17 20:26	2037-26-5	
4-Bromofluorobenzene (S)	77	%	58-141		1	10/12/17 07:15	10/12/17 20:26	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.9	%	0.10	0.10	1		10/16/17 11:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-1 (3-4') Lab ID: 40158427003 Collected: 10/09/17 10:00 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.7J	mg/kg	5.3	1.1	1	10/12/17 15:03	10/13/17 21:52	7440-38-2	
Barium	48.0	mg/kg	0.53	0.16	1	10/12/17 15:03	10/13/17 21:52	7440-39-3	
Cadmium	0.15J	mg/kg	0.53	0.14	1	10/12/17 15:03	10/13/17 21:52	7440-43-9	
Chromium	19.5	mg/kg	1.1	0.30	1	10/12/17 15:03	10/13/17 21:52	7440-47-3	
Lead	7.0	mg/kg	1.4	0.46	1	10/12/17 15:03	10/13/17 21:52	7439-92-1	
Selenium	<1.2	mg/kg	5.3	1.2	1	10/12/17 15:03	10/13/17 21:52	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	10/12/17 15:03	10/13/17 21:52	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.015J	mg/kg	0.038	0.012	1	10/17/17 06:54	10/17/17 11:49	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.3	ug/kg	14.3	4.3	1	10/13/17 08:32	10/13/17 15:30	83-32-9	
Acenaphthylene	<3.7	ug/kg	12.2	3.7	1	10/13/17 08:32	10/13/17 15:30	208-96-8	
Anthracene	<6.3	ug/kg	21.1	6.3	1	10/13/17 08:32	10/13/17 15:30	120-12-7	
Benzo(a)anthracene	11.7J	ug/kg	11.8	3.5	1	10/13/17 08:32	10/13/17 15:30	56-55-3	
Benzo(a)pyrene	12.1	ug/kg	9.3	2.8	1	10/13/17 08:32	10/13/17 15:30	50-32-8	
Benzo(b)fluoranthene	20.6	ug/kg	10.5	3.1	1	10/13/17 08:32	10/13/17 15:30	205-99-2	
Benzo(g,h,i)perylene	11.1	ug/kg	7.5	2.3	1	10/13/17 08:32	10/13/17 15:30	191-24-2	
Benzo(k)fluoranthene	7.1J	ug/kg	9.3	2.8	1	10/13/17 08:32	10/13/17 15:30	207-08-9	
Chrysene	15.2	ug/kg	12.5	3.7	1	10/13/17 08:32	10/13/17 15:30	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.3	2.5	1	10/13/17 08:32	10/13/17 15:30	53-70-3	
Fluoranthene	33.9	ug/kg	19.3	5.8	1	10/13/17 08:32	10/13/17 15:30	206-44-0	
Fluorene	<4.6	ug/kg	15.3	4.6	1	10/13/17 08:32	10/13/17 15:30	86-73-7	
Indeno(1,2,3-cd)pyrene	8.3	ug/kg	8.2	2.4	1	10/13/17 08:32	10/13/17 15:30	193-39-5	
1-Methylnaphthalene	<4.5	ug/kg	14.9	4.5	1	10/13/17 08:32	10/13/17 15:30	90-12-0	
2-Methylnaphthalene	<5.6	ug/kg	18.6	5.6	1	10/13/17 08:32	10/13/17 15:30	91-57-6	
Naphthalene	<9.4	ug/kg	31.2	9.4	1	10/13/17 08:32	10/13/17 15:30	91-20-3	
Phenanthrene	15.6J	ug/kg	43.1	13.0	1	10/13/17 08:32	10/13/17 15:30	85-01-8	
Pyrene	27.9	ug/kg	16.7	5.0	1	10/13/17 08:32	10/13/17 15:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	23-106		1	10/13/17 08:32	10/13/17 15:30	321-60-8	
Terphenyl-d14 (S)	69	%	29-106		1	10/13/17 08:32	10/13/17 15:30	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 20:50	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-1 (3-4') Lab ID: 40158427003 Collected: 10/09/17 10:00 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 20:50	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 20:50	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 20:50	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 07:15	10/12/17 20:50	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 20:50	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	100-42-5	W
Tetrachloroethene	44.8J	ug/kg	66.6	27.8	1	10/12/17 07:15	10/12/17 20:50	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 20:50	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 20:50	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	104-51-8	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-1 (3-4') Lab ID: 40158427003 Collected: 10/09/17 10:00 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 20:50	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	68-130		1	10/12/17 07:15	10/12/17 20:50	1868-53-7	
Toluene-d8 (S)	87	%	68-149		1	10/12/17 07:15	10/12/17 20:50	2037-26-5	
4-Bromofluorobenzene (S)	76	%	58-141		1	10/12/17 07:15	10/12/17 20:50	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10	%	0.10	0.10	1		10/16/17 11:11		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-1 (11.5-12.5') Lab ID: 40158427004 Collected: 10/09/17 10:05 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.6J	mg/kg	5.5	1.2	1	10/12/17 15:03	10/13/17 21:55	7440-38-2	
Barium	72.1	mg/kg	0.55	0.17	1	10/12/17 15:03	10/13/17 21:55	7440-39-3	
Cadmium	0.23J	mg/kg	0.55	0.15	1	10/12/17 15:03	10/13/17 21:55	7440-43-9	
Chromium	19.0	mg/kg	1.1	0.31	1	10/12/17 15:03	10/13/17 21:55	7440-47-3	
Lead	9.8	mg/kg	1.4	0.48	1	10/12/17 15:03	10/13/17 21:55	7439-92-1	
Selenium	<1.2	mg/kg	5.5	1.2	1	10/12/17 15:03	10/13/17 21:55	7782-49-2	
Silver	<0.38	mg/kg	1.1	0.38	1	10/12/17 15:03	10/13/17 21:55	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.013	mg/kg	0.043	0.013	1	10/17/17 06:54	10/17/17 11:52	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	7.1J	ug/kg	15.3	4.6	1	10/13/17 08:32	10/13/17 15:48	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.1	3.9	1	10/13/17 08:32	10/13/17 15:48	208-96-8	
Anthracene	<6.8	ug/kg	22.6	6.8	1	10/13/17 08:32	10/13/17 15:48	120-12-7	
Benzo(a)anthracene	17.3	ug/kg	12.6	3.8	1	10/13/17 08:32	10/13/17 15:48	56-55-3	
Benzo(a)pyrene	15.3	ug/kg	9.9	3.0	1	10/13/17 08:32	10/13/17 15:48	50-32-8	
Benzo(b)fluoranthene	21.8	ug/kg	11.2	3.4	1	10/13/17 08:32	10/13/17 15:48	205-99-2	
Benzo(g,h,i)perylene	10.7	ug/kg	8.0	2.4	1	10/13/17 08:32	10/13/17 15:48	191-24-2	
Benzo(k)fluoranthene	9.4J	ug/kg	9.9	3.0	1	10/13/17 08:32	10/13/17 15:48	207-08-9	
Chrysene	21.5	ug/kg	13.3	4.0	1	10/13/17 08:32	10/13/17 15:48	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	8.9	2.7	1	10/13/17 08:32	10/13/17 15:48	53-70-3	
Fluoranthene	52.2	ug/kg	20.7	6.2	1	10/13/17 08:32	10/13/17 15:48	206-44-0	
Fluorene	6.2J	ug/kg	16.4	4.9	1	10/13/17 08:32	10/13/17 15:48	86-73-7	
Indeno(1,2,3-cd)pyrene	9.2	ug/kg	8.7	2.6	1	10/13/17 08:32	10/13/17 15:48	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	15.9	4.8	1	10/13/17 08:32	10/13/17 15:48	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.8	5.9	1	10/13/17 08:32	10/13/17 15:48	91-57-6	
Naphthalene	<10.0	ug/kg	33.4	10.0	1	10/13/17 08:32	10/13/17 15:48	91-20-3	C4
Phenanthrene	53.0	ug/kg	46.1	13.8	1	10/13/17 08:32	10/13/17 15:48	85-01-8	
Pyrene	43.9	ug/kg	17.8	5.4	1	10/13/17 08:32	10/13/17 15:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	23-106		1	10/13/17 08:32	10/13/17 15:48	321-60-8	
Terphenyl-d14 (S)	51	%	29-106		1	10/13/17 08:32	10/13/17 15:48	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 21:13	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-1 (11.5-12.5') Lab ID: 40158427004 Collected: 10/09/17 10:05 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 21:13	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 21:13	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 21:13	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 07:15	10/12/17 21:13	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 21:13	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 21:13	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 21:13	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-1 (11.5-12.5') Lab ID: 40158427004 Collected: 10/09/17 10:05 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:13	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	80	%	68-130		1	10/12/17 07:15	10/12/17 21:13	1868-53-7	
Toluene-d8 (S)	81	%	68-149		1	10/12/17 07:15	10/12/17 21:13	2037-26-5	
4-Bromofluorobenzene (S)	72	%	58-141		1	10/12/17 07:15	10/12/17 21:13	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.0	%	0.10	0.10	1		10/16/17 11:11		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-4 (2-3') Lab ID: 40158427005 Collected: 10/09/17 10:50 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	6.1	mg/kg	5.9	1.2	1	10/12/17 15:03	10/13/17 21:57	7440-38-2	
Barium	128	mg/kg	0.59	0.18	1	10/12/17 15:03	10/13/17 21:57	7440-39-3	
Cadmium	7.7	mg/kg	0.59	0.16	1	10/12/17 15:03	10/13/17 21:57	7440-43-9	
Chromium	14.0	mg/kg	1.2	0.33	1	10/12/17 15:03	10/13/17 21:57	7440-47-3	
Lead	135	mg/kg	1.5	0.51	1	10/12/17 15:03	10/13/17 21:57	7439-92-1	
Selenium	1.5J	mg/kg	5.9	1.3	1	10/12/17 15:03	10/13/17 21:57	7782-49-2	
Silver	<0.41	mg/kg	1.2	0.41	1	10/12/17 15:03	10/13/17 21:57	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.013J	mg/kg	0.041	0.012	1	10/17/17 06:54	10/17/17 11:54	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.2	4.6	1	10/13/17 08:32	10/13/17 16:05	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.0	3.9	1	10/13/17 08:32	10/13/17 16:05	208-96-8	
Anthracene	10.6J	ug/kg	22.4	6.7	1	10/13/17 08:32	10/13/17 16:05	120-12-7	
Benzo(a)anthracene	27.6	ug/kg	12.5	3.7	1	10/13/17 08:32	10/13/17 16:05	56-55-3	
Benzo(a)pyrene	26.3	ug/kg	9.9	3.0	1	10/13/17 08:32	10/13/17 16:05	50-32-8	
Benzo(b)fluoranthene	39.9	ug/kg	11.1	3.3	1	10/13/17 08:32	10/13/17 16:05	205-99-2	
Benzo(g,h,i)perylene	20.9	ug/kg	8.0	2.4	1	10/13/17 08:32	10/13/17 16:05	191-24-2	
Benzo(k)fluoranthene	14.4	ug/kg	9.9	3.0	1	10/13/17 08:32	10/13/17 16:05	207-08-9	
Chrysene	33.7	ug/kg	13.2	4.0	1	10/13/17 08:32	10/13/17 16:05	218-01-9	
Dibenz(a,h)anthracene	4.4J	ug/kg	8.8	2.6	1	10/13/17 08:32	10/13/17 16:05	53-70-3	
Fluoranthene	77.5	ug/kg	20.5	6.1	1	10/13/17 08:32	10/13/17 16:05	206-44-0	
Fluorene	<4.9	ug/kg	16.3	4.9	1	10/13/17 08:32	10/13/17 16:05	86-73-7	
Indeno(1,2,3-cd)pyrene	17.4	ug/kg	8.7	2.6	1	10/13/17 08:32	10/13/17 16:05	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	15.8	4.8	1	10/13/17 08:32	10/13/17 16:05	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.7	5.9	1	10/13/17 08:32	10/13/17 16:05	91-57-6	
Naphthalene	<9.9	ug/kg	33.2	9.9	1	10/13/17 08:32	10/13/17 16:05	91-20-3	
Phenanthrene	57.0	ug/kg	45.8	13.8	1	10/13/17 08:32	10/13/17 16:05	85-01-8	
Pyrene	61.1	ug/kg	17.7	5.3	1	10/13/17 08:32	10/13/17 16:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	23-106		1	10/13/17 08:32	10/13/17 16:05	321-60-8	
Terphenyl-d14 (S)	62	%	29-106		1	10/13/17 08:32	10/13/17 16:05	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 21:36	120-82-1	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-4 (2-3') Lab ID: 40158427005 Collected: 10/09/17 10:50 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 21:36	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 21:36	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 21:36	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 07:15	10/12/17 21:36	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 21:36	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	100-42-5	W
Tetrachloroethene	371	ug/kg	70.9	29.5	1	10/12/17 07:15	10/12/17 21:36	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 21:36	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 21:36	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-4 (2-3') Lab ID: 40158427005 Collected: 10/09/17 10:50 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:36	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	87	%	68-130		1	10/12/17 07:15	10/12/17 21:36	1868-53-7	
Toluene-d8 (S)	87	%	68-149		1	10/12/17 07:15	10/12/17 21:36	2037-26-5	
4-Bromofluorobenzene (S)	75	%	58-141		1	10/12/17 07:15	10/12/17 21:36	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.3	%	0.10	0.10	1		10/16/17 12:45		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-4 (10-11') Lab ID: 40158427006 Collected: 10/09/17 10:55 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.1J	mg/kg	5.7	1.2	1	10/12/17 15:03	10/13/17 22:00	7440-38-2	
Barium	47.8	mg/kg	0.57	0.17	1	10/12/17 15:03	10/13/17 22:00	7440-39-3	
Cadmium	0.15J	mg/kg	0.57	0.15	1	10/12/17 15:03	10/13/17 22:00	7440-43-9	
Chromium	17.7	mg/kg	1.1	0.32	1	10/12/17 15:03	10/13/17 22:00	7440-47-3	
Lead	7.8	mg/kg	1.5	0.49	1	10/12/17 15:03	10/13/17 22:00	7439-92-1	
Selenium	<1.3	mg/kg	5.7	1.3	1	10/12/17 15:03	10/13/17 22:00	7782-49-2	
Silver	<0.39	mg/kg	1.1	0.39	1	10/12/17 15:03	10/13/17 22:00	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.038	0.012	1	10/17/17 06:54	10/17/17 12:01	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.4	ug/kg	14.7	4.4	1	10/13/17 08:32	10/13/17 16:22	83-32-9	
Acenaphthylene	<3.8	ug/kg	12.5	3.8	1	10/13/17 08:32	10/13/17 16:22	208-96-8	
Anthracene	<6.5	ug/kg	21.7	6.5	1	10/13/17 08:32	10/13/17 16:22	120-12-7	
Benzo(a)anthracene	<3.6	ug/kg	12.1	3.6	1	10/13/17 08:32	10/13/17 16:22	56-55-3	
Benzo(a)pyrene	3.7J	ug/kg	9.5	2.9	1	10/13/17 08:32	10/13/17 16:22	50-32-8	
Benzo(b)fluoranthene	4.7J	ug/kg	10.7	3.2	1	10/13/17 08:32	10/13/17 16:22	205-99-2	
Benzo(g,h,i)perylene	5.1J	ug/kg	7.7	2.3	1	10/13/17 08:32	10/13/17 16:22	191-24-2	
Benzo(k)fluoranthene	<2.9	ug/kg	9.5	2.9	1	10/13/17 08:32	10/13/17 16:22	207-08-9	
Chrysene	<3.8	ug/kg	12.8	3.8	1	10/13/17 08:32	10/13/17 16:22	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.5	2.6	1	10/13/17 08:32	10/13/17 16:22	53-70-3	
Fluoranthene	6.5J	ug/kg	19.8	5.9	1	10/13/17 08:32	10/13/17 16:22	206-44-0	
Fluorene	<4.7	ug/kg	15.7	4.7	1	10/13/17 08:32	10/13/17 16:22	86-73-7	
Indeno(1,2,3-cd)pyrene	2.6J	ug/kg	8.4	2.5	1	10/13/17 08:32	10/13/17 16:22	193-39-5	
1-Methylnaphthalene	<4.6	ug/kg	15.3	4.6	1	10/13/17 08:32	10/13/17 16:22	90-12-0	
2-Methylnaphthalene	<5.7	ug/kg	19.0	5.7	1	10/13/17 08:32	10/13/17 16:22	91-57-6	
Naphthalene	<9.6	ug/kg	32.1	9.6	1	10/13/17 08:32	10/13/17 16:22	91-20-3	C4
Phenanthrene	<13.3	ug/kg	44.3	13.3	1	10/13/17 08:32	10/13/17 16:22	85-01-8	
Pyrene	5.4J	ug/kg	17.1	5.1	1	10/13/17 08:32	10/13/17 16:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	23-106		1	10/13/17 08:32	10/13/17 16:22	321-60-8	
Terphenyl-d14 (S)	59	%	29-106		1	10/13/17 08:32	10/13/17 16:22	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 21:59	120-82-1	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-4 (10-11') Lab ID: 40158427006 Collected: 10/09/17 10:55 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 21:59	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 21:59	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 21:59	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 07:15	10/12/17 21:59	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 21:59	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 21:59	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 21:59	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	104-51-8	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-4 (10-11') Lab ID: 40158427006 Collected: 10/09/17 10:55 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 21:59	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	86	%	68-130		1	10/12/17 07:15	10/12/17 21:59	1868-53-7	
Toluene-d8 (S)	83	%	68-149		1	10/12/17 07:15	10/12/17 21:59	2037-26-5	
4-Bromofluorobenzene (S)	69	%	58-141		1	10/12/17 07:15	10/12/17 21:59	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	12.4	%	0.10	0.10	1		10/16/17 13:20		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: TRIP BLANK Lab ID: 40158427007 Collected: 10/09/17 00:00 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 17:21	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 17:21	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 17:21	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 17:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 07:15	10/12/17 17:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 17:21	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: TRIP BLANK Lab ID: 40158427007 Collected: 10/09/17 00:00 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 17:21	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 17:21	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 17:21	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	84	%	68-130		1	10/12/17 07:15	10/12/17 17:21	1868-53-7	
Toluene-d8 (S)	77	%	68-149		1	10/12/17 07:15	10/12/17 17:21	2037-26-5	
4-Bromofluorobenzene (S)	79	%	58-141		1	10/12/17 07:15	10/12/17 17:21	460-00-4	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-3 (3-4') Lab ID: 40158427008 Collected: 10/09/17 11:35 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	6.9	mg/kg	5.4	1.1	1	10/12/17 15:03	10/13/17 22:07	7440-38-2	
Barium	86.2	mg/kg	0.54	0.16	1	10/12/17 15:03	10/13/17 22:07	7440-39-3	
Cadmium	0.19J	mg/kg	0.54	0.14	1	10/12/17 15:03	10/13/17 22:07	7440-43-9	
Chromium	20.4	mg/kg	1.1	0.30	1	10/12/17 15:03	10/13/17 22:07	7440-47-3	
Lead	13.8	mg/kg	1.4	0.47	1	10/12/17 15:03	10/13/17 22:07	7439-92-1	
Selenium	<1.2	mg/kg	5.4	1.2	1	10/12/17 15:03	10/13/17 22:07	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	10/12/17 15:03	10/13/17 22:07	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.040	0.012	1	10/17/17 06:54	10/17/17 12:03	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	9.3J	ug/kg	15.0	4.5	1	10/13/17 08:32	10/13/17 16:39	83-32-9	
Acenaphthylene	<3.8	ug/kg	12.8	3.8	1	10/13/17 08:32	10/13/17 16:39	208-96-8	
Anthracene	16.7J	ug/kg	22.1	6.7	1	10/13/17 08:32	10/13/17 16:39	120-12-7	
Benzo(a)anthracene	26.0	ug/kg	12.4	3.7	1	10/13/17 08:32	10/13/17 16:39	56-55-3	
Benzo(a)pyrene	20.2	ug/kg	9.8	2.9	1	10/13/17 08:32	10/13/17 16:39	50-32-8	
Benzo(b)fluoranthene	25.7	ug/kg	11.0	3.3	1	10/13/17 08:32	10/13/17 16:39	205-99-2	
Benzo(g,h,i)perylene	11.6	ug/kg	7.9	2.4	1	10/13/17 08:32	10/13/17 16:39	191-24-2	
Benzo(k)fluoranthene	10.9	ug/kg	9.7	2.9	1	10/13/17 08:32	10/13/17 16:39	207-08-9	
Chrysene	24.4	ug/kg	13.1	3.9	1	10/13/17 08:32	10/13/17 16:39	218-01-9	
Dibenz(a,h)anthracene	3.2J	ug/kg	8.7	2.6	1	10/13/17 08:32	10/13/17 16:39	53-70-3	
Fluoranthene	66.1	ug/kg	20.3	6.1	1	10/13/17 08:32	10/13/17 16:39	206-44-0	
Fluorene	9.7J	ug/kg	16.1	4.8	1	10/13/17 08:32	10/13/17 16:39	86-73-7	
Indeno(1,2,3-cd)pyrene	9.9	ug/kg	8.5	2.6	1	10/13/17 08:32	10/13/17 16:39	193-39-5	
1-Methylnaphthalene	<4.7	ug/kg	15.6	4.7	1	10/13/17 08:32	10/13/17 16:39	90-12-0	
2-Methylnaphthalene	<5.8	ug/kg	19.5	5.8	1	10/13/17 08:32	10/13/17 16:39	91-57-6	
Naphthalene	<9.8	ug/kg	32.8	9.8	1	10/13/17 08:32	10/13/17 16:39	91-20-3	
Phenanthrene	79.8	ug/kg	45.2	13.6	1	10/13/17 08:32	10/13/17 16:39	85-01-8	
Pyrene	56.2	ug/kg	17.5	5.3	1	10/13/17 08:32	10/13/17 16:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	23-106		1	10/13/17 08:32	10/13/17 16:39	321-60-8	
Terphenyl-d14 (S)	60	%	29-106		1	10/13/17 08:32	10/13/17 16:39	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 22:22	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-3 (3-4') Lab ID: 40158427008 Collected: 10/09/17 11:35 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 22:22	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 22:22	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 22:22	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 07:15	10/12/17 22:22	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 22:22	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	100-42-5	W
Tetrachloroethene	44.6J	ug/kg	69.8	29.1	1	10/12/17 07:15	10/12/17 22:22	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 22:22	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 22:22	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	104-51-8	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-3 (3-4') Lab ID: 40158427008 Collected: 10/09/17 11:35 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:22	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	68-130		1	10/12/17 07:15	10/12/17 22:22	1868-53-7	
Toluene-d8 (S)	96	%	68-149		1	10/12/17 07:15	10/12/17 22:22	2037-26-5	
4-Bromofluorobenzene (S)	83	%	58-141		1	10/12/17 07:15	10/12/17 22:22	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.1	%	0.10	0.10	1		10/16/17 13:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-3 (11-12') Lab ID: 40158427009 Collected: 10/09/17 11:40 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.3J	mg/kg	5.6	1.2	1	10/12/17 15:03	10/13/17 22:10	7440-38-2	
Barium	65.6	mg/kg	0.56	0.17	1	10/12/17 15:03	10/13/17 22:10	7440-39-3	
Cadmium	0.28J	mg/kg	0.56	0.15	1	10/12/17 15:03	10/13/17 22:10	7440-43-9	
Chromium	27.1	mg/kg	1.1	0.31	1	10/12/17 15:03	10/13/17 22:10	7440-47-3	
Lead	9.0	mg/kg	1.5	0.48	1	10/12/17 15:03	10/13/17 22:10	7439-92-1	
Selenium	<1.2	mg/kg	5.6	1.2	1	10/12/17 15:03	10/13/17 22:10	7782-49-2	
Silver	<0.38	mg/kg	1.1	0.38	1	10/12/17 15:03	10/13/17 22:10	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.016J	mg/kg	0.043	0.013	1	10/17/17 06:54	10/17/17 12:06	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.3	4.6	1	10/13/17 08:32	10/13/17 16:56	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.0	3.9	1	10/13/17 08:32	10/13/17 16:56	208-96-8	
Anthracene	<6.8	ug/kg	22.5	6.8	1	10/13/17 08:32	10/13/17 16:56	120-12-7	
Benzo(a)anthracene	5.5J	ug/kg	12.6	3.8	1	10/13/17 08:32	10/13/17 16:56	56-55-3	
Benzo(a)pyrene	4.9J	ug/kg	9.9	3.0	1	10/13/17 08:32	10/13/17 16:56	50-32-8	
Benzo(b)fluoranthene	7.1J	ug/kg	11.1	3.3	1	10/13/17 08:32	10/13/17 16:56	205-99-2	
Benzo(g,h,i)perylene	4.3J	ug/kg	8.0	2.4	1	10/13/17 08:32	10/13/17 16:56	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	9.9	3.0	1	10/13/17 08:32	10/13/17 16:56	207-08-9	
Chrysene	6.6J	ug/kg	13.3	4.0	1	10/13/17 08:32	10/13/17 16:56	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.8	2.6	1	10/13/17 08:32	10/13/17 16:56	53-70-3	
Fluoranthene	15.2J	ug/kg	20.6	6.2	1	10/13/17 08:32	10/13/17 16:56	206-44-0	
Fluorene	<4.9	ug/kg	16.3	4.9	1	10/13/17 08:32	10/13/17 16:56	86-73-7	
Indeno(1,2,3-cd)pyrene	3.0J	ug/kg	8.7	2.6	1	10/13/17 08:32	10/13/17 16:56	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	15.9	4.8	1	10/13/17 08:32	10/13/17 16:56	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.8	5.9	1	10/13/17 08:32	10/13/17 16:56	91-57-6	
Naphthalene	<10	ug/kg	33.3	10	1	10/13/17 08:32	10/13/17 16:56	91-20-3	
Phenanthrene	<13.8	ug/kg	46.0	13.8	1	10/13/17 08:32	10/13/17 16:56	85-01-8	
Pyrene	12.5J	ug/kg	17.8	5.3	1	10/13/17 08:32	10/13/17 16:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	23-106		1	10/13/17 08:32	10/13/17 16:56	321-60-8	
Terphenyl-d14 (S)	63	%	29-106		1	10/13/17 08:32	10/13/17 16:56	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 22:45	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-3 (11-12') Lab ID: 40158427009 Collected: 10/09/17 11:40 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 22:45	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 22:45	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 22:45	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 07:15	10/12/17 22:45	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 22:45	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 22:45	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 22:45	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	104-51-8	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-3 (11-12') Lab ID: 40158427009 Collected: 10/09/17 11:40 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 22:45	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	88	%	68-130		1	10/12/17 07:15	10/12/17 22:45	1868-53-7	
Toluene-d8 (S)	90	%	68-149		1	10/12/17 07:15	10/12/17 22:45	2037-26-5	
4-Bromofluorobenzene (S)	76	%	58-141		1	10/12/17 07:15	10/12/17 22:45	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.4	%	0.10	0.10	1		10/16/17 12:45		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-5 (12.5-13.5') Lab ID: 40158427010 Collected: 10/09/17 12:15 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.3J	mg/kg	5.4	1.1	1	10/12/17 15:03	10/13/17 22:12	7440-38-2	
Barium	20.0	mg/kg	0.54	0.16	1	10/12/17 15:03	10/13/17 22:12	7440-39-3	
Cadmium	0.16J	mg/kg	0.54	0.14	1	10/12/17 15:03	10/13/17 22:12	7440-43-9	
Chromium	9.3	mg/kg	1.1	0.30	1	10/12/17 15:03	10/13/17 22:12	7440-47-3	
Lead	7.1	mg/kg	1.4	0.47	1	10/12/17 15:03	10/13/17 22:12	7439-92-1	
Selenium	<1.2	mg/kg	5.4	1.2	1	10/12/17 15:03	10/13/17 22:12	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	10/12/17 15:03	10/13/17 22:12	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.041	0.012	1	10/17/17 06:54	10/17/17 12:08	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.4	ug/kg	14.6	4.4	1	10/13/17 08:32	10/13/17 17:13	83-32-9	
Acenaphthylene	<3.7	ug/kg	12.4	3.7	1	10/13/17 08:32	10/13/17 17:13	208-96-8	
Anthracene	<6.4	ug/kg	21.4	6.4	1	10/13/17 08:32	10/13/17 17:13	120-12-7	
Benzo(a)anthracene	<3.6	ug/kg	12.0	3.6	1	10/13/17 08:32	10/13/17 17:13	56-55-3	
Benzo(a)pyrene	<2.8	ug/kg	9.4	2.8	1	10/13/17 08:32	10/13/17 17:13	50-32-8	
Benzo(b)fluoranthene	3.5J	ug/kg	10.6	3.2	1	10/13/17 08:32	10/13/17 17:13	205-99-2	
Benzo(g,h,i)perylene	<2.3	ug/kg	7.6	2.3	1	10/13/17 08:32	10/13/17 17:13	191-24-2	
Benzo(k)fluoranthene	<2.8	ug/kg	9.4	2.8	1	10/13/17 08:32	10/13/17 17:13	207-08-9	
Chrysene	<3.8	ug/kg	12.6	3.8	1	10/13/17 08:32	10/13/17 17:13	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.4	2.5	1	10/13/17 08:32	10/13/17 17:13	53-70-3	
Fluoranthene	<5.9	ug/kg	19.6	5.9	1	10/13/17 08:32	10/13/17 17:13	206-44-0	
Fluorene	<4.7	ug/kg	15.6	4.7	1	10/13/17 08:32	10/13/17 17:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	8.3	2.5	1	10/13/17 08:32	10/13/17 17:13	193-39-5	
1-Methylnaphthalene	12.1J	ug/kg	15.1	4.5	1	10/13/17 08:32	10/13/17 17:13	90-12-0	
2-Methylnaphthalene	<5.6	ug/kg	18.8	5.6	1	10/13/17 08:32	10/13/17 17:13	91-57-6	
Naphthalene	52.5	ug/kg	31.7	9.5	1	10/13/17 08:32	10/13/17 17:13	91-20-3	
Phenanthrene	<13.1	ug/kg	43.8	13.1	1	10/13/17 08:32	10/13/17 17:13	85-01-8	
Pyrene	<5.1	ug/kg	16.9	5.1	1	10/13/17 08:32	10/13/17 17:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	23-106		1	10/13/17 08:32	10/13/17 17:13	321-60-8	
Terphenyl-d14 (S)	68	%	29-106		1	10/13/17 08:32	10/13/17 17:13	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 07:15	10/12/17 23:09	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-5 (12.5-13.5') Lab ID: 40158427010 Collected: 10/09/17 12:15 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 07:15	10/12/17 23:09	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 07:15	10/12/17 23:09	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 07:15	10/12/17 23:09	75-00-3	W
Chloroform	151J	ug/kg	282	52.4	1	10/12/17 07:15	10/12/17 23:09	67-66-3	
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	108-20-3	W
Ethylbenzene	74.1	ug/kg	67.7	28.2	1	10/12/17 07:15	10/12/17 23:09	100-41-4	
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	87-68-3	W
Isopropylbenzene (Cumene)	112	ug/kg	67.7	28.2	1	10/12/17 07:15	10/12/17 23:09	98-82-8	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 07:15	10/12/17 23:09	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 07:15	10/12/17 23:09	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 07:15	10/12/17 23:09	179601-23-1	W
n-Butylbenzene	324	ug/kg	67.7	28.2	1	10/12/17 07:15	10/12/17 23:09	104-51-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-5 (12.5-13.5') Lab ID: 40158427010 Collected: 10/09/17 12:15 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	545	ug/kg	67.7	28.2	1	10/12/17 07:15	10/12/17 23:09	103-65-1	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	99-87-6	W
sec-Butylbenzene	159	ug/kg	67.7	28.2	1	10/12/17 07:15	10/12/17 23:09	135-98-8	
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 07:15	10/12/17 23:09	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	86	%	68-130		1	10/12/17 07:15	10/12/17 23:09	1868-53-7	
Toluene-d8 (S)	84	%	68-149		1	10/12/17 07:15	10/12/17 23:09	2037-26-5	
4-Bromofluorobenzene (S)	84	%	58-141		1	10/12/17 07:15	10/12/17 23:09	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.4	%	0.10	0.10	1		10/16/17 12:45		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-5 (14-15') Lab ID: 40158427011 Collected: 10/09/17 12:20 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	3.5J	mg/kg	5.4	1.1	1	10/12/17 15:03	10/13/17 22:15	7440-38-2	
Barium	94.4	mg/kg	0.54	0.16	1	10/12/17 15:03	10/13/17 22:15	7440-39-3	
Cadmium	0.18J	mg/kg	0.54	0.14	1	10/12/17 15:03	10/13/17 22:15	7440-43-9	
Chromium	27.9	mg/kg	1.1	0.30	1	10/12/17 15:03	10/13/17 22:15	7440-47-3	
Lead	8.7	mg/kg	1.4	0.46	1	10/12/17 15:03	10/13/17 22:15	7439-92-1	
Selenium	<1.2	mg/kg	5.4	1.2	1	10/12/17 15:03	10/13/17 22:15	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	10/12/17 15:03	10/13/17 22:15	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.020J	mg/kg	0.045	0.014	1	10/17/17 06:56	10/17/17 12:15	7439-97-6	M0
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	<4.8	ug/kg	15.9	4.8	1	10/13/17 08:32	10/13/17 17:31	83-32-9	
Acenaphthylene	<4.1	ug/kg	13.5	4.1	1	10/13/17 08:32	10/13/17 17:31	208-96-8	
Anthracene	<7.0	ug/kg	23.4	7.0	1	10/13/17 08:32	10/13/17 17:31	120-12-7	
Benzo(a)anthracene	<3.9	ug/kg	13.0	3.9	1	10/13/17 08:32	10/13/17 17:31	56-55-3	
Benzo(a)pyrene	<3.1	ug/kg	10.3	3.1	1	10/13/17 08:32	10/13/17 17:31	50-32-8	
Benzo(b)fluoranthene	<3.5	ug/kg	11.6	3.5	1	10/13/17 08:32	10/13/17 17:31	205-99-2	
Benzo(g,h,i)perylene	<2.5	ug/kg	8.3	2.5	1	10/13/17 08:32	10/13/17 17:31	191-24-2	
Benzo(k)fluoranthene	<3.1	ug/kg	10.3	3.1	1	10/13/17 08:32	10/13/17 17:31	207-08-9	
Chrysene	<4.1	ug/kg	13.8	4.1	1	10/13/17 08:32	10/13/17 17:31	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	9.2	2.8	1	10/13/17 08:32	10/13/17 17:31	53-70-3	
Fluoranthene	<6.4	ug/kg	21.4	6.4	1	10/13/17 08:32	10/13/17 17:31	206-44-0	
Fluorene	<5.1	ug/kg	17.0	5.1	1	10/13/17 08:32	10/13/17 17:31	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.7	ug/kg	9.0	2.7	1	10/13/17 08:32	10/13/17 17:31	193-39-5	
1-Methylnaphthalene	47.0	ug/kg	16.5	4.9	1	10/13/17 08:32	10/13/17 17:31	90-12-0	
2-Methylnaphthalene	8.4J	ug/kg	20.5	6.2	1	10/13/17 08:32	10/13/17 17:31	91-57-6	
Naphthalene	35.3	ug/kg	34.6	10.4	1	10/13/17 08:32	10/13/17 17:31	91-20-3	
Phenanthrene	<14.3	ug/kg	47.7	14.3	1	10/13/17 08:32	10/13/17 17:31	85-01-8	
Pyrene	<5.5	ug/kg	18.5	5.5	1	10/13/17 08:32	10/13/17 17:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	23-106		1	10/13/17 08:32	10/13/17 17:31	321-60-8	
Terphenyl-d14 (S)	60	%	29-106		1	10/13/17 08:32	10/13/17 17:31	1718-51-0	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 11:00	10/13/17 01:28	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-5 (14-15') Lab ID: 40158427011 Collected: 10/09/17 12:20 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trimethylbenzene	36.6J	ug/kg	73.8	30.7	1	10/12/17 11:00	10/13/17 01:28	95-63-6	
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 11:00	10/13/17 01:28	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 11:00	10/13/17 01:28	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 11:00	10/13/17 01:28	75-00-3	W
Chloroform	133J	ug/kg	307	57.1	1	10/12/17 11:00	10/13/17 01:28	67-66-3	
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	108-20-3	W
Ethylbenzene	1060	ug/kg	73.8	30.7	1	10/12/17 11:00	10/13/17 01:28	100-41-4	
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	87-68-3	W
Isopropylbenzene (Cumene)	211	ug/kg	73.8	30.7	1	10/12/17 11:00	10/13/17 01:28	98-82-8	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 11:00	10/13/17 01:28	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 11:00	10/13/17 01:28	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 11:00	10/13/17 01:28	179601-23-1	W
n-Butylbenzene	152	ug/kg	73.8	30.7	1	10/12/17 11:00	10/13/17 01:28	104-51-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-5 (14-15') Lab ID: 40158427011 Collected: 10/09/17 12:20 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	778	ug/kg	73.8	30.7	1	10/12/17 11:00	10/13/17 01:28	103-65-1	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	99-87-6	W
sec-Butylbenzene	46.5J	ug/kg	73.8	30.7	1	10/12/17 11:00	10/13/17 01:28	135-98-8	
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:28	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	81	%	68-130		1	10/12/17 11:00	10/13/17 01:28	1868-53-7	
Toluene-d8 (S)	83	%	68-149		1	10/12/17 11:00	10/13/17 01:28	2037-26-5	
4-Bromofluorobenzene (S)	76	%	58-141		1	10/12/17 11:00	10/13/17 01:28	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	18.6	%	0.10	0.10	1		10/16/17 12:45		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-6 (3-4') Lab ID: 40158427012 Collected: 10/09/17 12:55 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.9J	mg/kg	5.3	1.1	1	10/12/17 15:03	10/13/17 22:17	7440-38-2	
Barium	43.7	mg/kg	0.53	0.16	1	10/12/17 15:03	10/13/17 22:17	7440-39-3	
Cadmium	0.21J	mg/kg	0.53	0.14	1	10/12/17 15:03	10/13/17 22:17	7440-43-9	
Chromium	16.1	mg/kg	1.1	0.30	1	10/12/17 15:03	10/13/17 22:17	7440-47-3	
Lead	6.9	mg/kg	1.4	0.46	1	10/12/17 15:03	10/13/17 22:17	7439-92-1	
Selenium	<1.2	mg/kg	5.3	1.2	1	10/12/17 15:03	10/13/17 22:17	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	10/12/17 15:03	10/13/17 22:17	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.039	0.012	1	10/17/17 06:56	10/17/17 12:22	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.5	ug/kg	14.9	4.5	1	10/13/17 08:32	10/13/17 17:48	83-32-9	
Acenaphthylene	<3.8	ug/kg	12.7	3.8	1	10/13/17 08:32	10/13/17 17:48	208-96-8	
Anthracene	<6.6	ug/kg	21.9	6.6	1	10/13/17 08:32	10/13/17 17:48	120-12-7	
Benzo(a)anthracene	5.9J	ug/kg	12.2	3.7	1	10/13/17 08:32	10/13/17 17:48	56-55-3	
Benzo(a)pyrene	4.2J	ug/kg	9.7	2.9	1	10/13/17 08:32	10/13/17 17:48	50-32-8	
Benzo(b)fluoranthene	6.5J	ug/kg	10.9	3.3	1	10/13/17 08:32	10/13/17 17:48	205-99-2	
Benzo(g,h,i)perylene	3.2J	ug/kg	7.8	2.3	1	10/13/17 08:32	10/13/17 17:48	191-24-2	
Benzo(k)fluoranthene	<2.9	ug/kg	9.7	2.9	1	10/13/17 08:32	10/13/17 17:48	207-08-9	
Chrysene	6.5J	ug/kg	12.9	3.9	1	10/13/17 08:32	10/13/17 17:48	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.6	2.6	1	10/13/17 08:32	10/13/17 17:48	53-70-3	
Fluoranthene	10.7J	ug/kg	20.1	6.0	1	10/13/17 08:32	10/13/17 17:48	206-44-0	
Fluorene	<4.8	ug/kg	15.9	4.8	1	10/13/17 08:32	10/13/17 17:48	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	8.5	2.5	1	10/13/17 08:32	10/13/17 17:48	193-39-5	
1-Methylnaphthalene	<4.6	ug/kg	15.5	4.6	1	10/13/17 08:32	10/13/17 17:48	90-12-0	
2-Methylnaphthalene	<5.8	ug/kg	19.3	5.8	1	10/13/17 08:32	10/13/17 17:48	91-57-6	
Naphthalene	<9.7	ug/kg	32.5	9.7	1	10/13/17 08:32	10/13/17 17:48	91-20-3	
Phenanthrene	<13.5	ug/kg	44.8	13.5	1	10/13/17 08:32	10/13/17 17:48	85-01-8	
Pyrene	12.1J	ug/kg	17.3	5.2	1	10/13/17 08:32	10/13/17 17:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	23-106		1	10/13/17 08:32	10/13/17 17:48	321-60-8	
Terphenyl-d14 (S)	61	%	29-106		1	10/13/17 08:32	10/13/17 17:48	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 11:00	10/13/17 01:51	120-82-1	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-6 (3-4') Lab ID: 40158427012 Collected: 10/09/17 12:55 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 11:00	10/13/17 01:51	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 11:00	10/13/17 01:51	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 11:00	10/13/17 01:51	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 11:00	10/13/17 01:51	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 11:00	10/13/17 01:51	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	100-42-5	W
Tetrachloroethene	109	ug/kg	69.3	28.9	1	10/12/17 11:00	10/13/17 01:51	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 11:00	10/13/17 01:51	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 11:00	10/13/17 01:51	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	104-51-8	W

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-6 (3-4') Lab ID: 40158427012 Collected: 10/09/17 12:55 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 01:51	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	86	%	68-130		1	10/12/17 11:00	10/13/17 01:51	1868-53-7	
Toluene-d8 (S)	85	%	68-149		1	10/12/17 11:00	10/13/17 01:51	2037-26-5	
4-Bromofluorobenzene (S)	73	%	58-141		1	10/12/17 11:00	10/13/17 01:51	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.4	%	0.10	0.10	1		10/16/17 12:45		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: B-6 (11-12') Lab ID: 40158427013 Collected: 10/09/17 13:00 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.7J	mg/kg	5.4	1.1	1	10/12/17 15:03	10/13/17 22:19	7440-38-2	
Barium	43.1	mg/kg	0.54	0.16	1	10/12/17 15:03	10/13/17 22:19	7440-39-3	
Cadmium	0.14J	mg/kg	0.54	0.14	1	10/12/17 15:03	10/13/17 22:19	7440-43-9	
Chromium	14.2	mg/kg	1.1	0.30	1	10/12/17 15:03	10/13/17 22:19	7440-47-3	
Lead	6.6	mg/kg	1.4	0.46	1	10/12/17 15:03	10/13/17 22:19	7439-92-1	
Selenium	<1.2	mg/kg	5.4	1.2	1	10/12/17 15:03	10/13/17 22:19	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	10/12/17 15:03	10/13/17 22:19	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.012J	mg/kg	0.040	0.012	1	10/17/17 06:56	10/17/17 12:29	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.3	ug/kg	14.5	4.3	1	10/13/17 08:32	10/13/17 18:05	83-32-9	
Acenaphthylene	<3.7	ug/kg	12.3	3.7	1	10/13/17 08:32	10/13/17 18:05	208-96-8	
Anthracene	<6.4	ug/kg	21.3	6.4	1	10/13/17 08:32	10/13/17 18:05	120-12-7	
Benzo(a)anthracene	<3.6	ug/kg	11.9	3.6	1	10/13/17 08:32	10/13/17 18:05	56-55-3	
Benzo(a)pyrene	<2.8	ug/kg	9.4	2.8	1	10/13/17 08:32	10/13/17 18:05	50-32-8	
Benzo(b)fluoranthene	<3.2	ug/kg	10.5	3.2	1	10/13/17 08:32	10/13/17 18:05	205-99-2	
Benzo(g,h,i)perylene	<2.3	ug/kg	7.6	2.3	1	10/13/17 08:32	10/13/17 18:05	191-24-2	
Benzo(k)fluoranthene	<2.8	ug/kg	9.4	2.8	1	10/13/17 08:32	10/13/17 18:05	207-08-9	
Chrysene	<3.8	ug/kg	12.5	3.8	1	10/13/17 08:32	10/13/17 18:05	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.3	2.5	1	10/13/17 08:32	10/13/17 18:05	53-70-3	
Fluoranthene	<5.8	ug/kg	19.5	5.8	1	10/13/17 08:32	10/13/17 18:05	206-44-0	
Fluorene	<4.6	ug/kg	15.5	4.6	1	10/13/17 08:32	10/13/17 18:05	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	8.2	2.5	1	10/13/17 08:32	10/13/17 18:05	193-39-5	
1-Methylnaphthalene	5.0J	ug/kg	15.0	4.5	1	10/13/17 08:32	10/13/17 18:05	90-12-0	
2-Methylnaphthalene	<5.6	ug/kg	18.7	5.6	1	10/13/17 08:32	10/13/17 18:05	91-57-6	
Naphthalene	10.0J	ug/kg	31.5	9.4	1	10/13/17 08:32	10/13/17 18:05	91-20-3	
Phenanthrene	<13.1	ug/kg	43.5	13.1	1	10/13/17 08:32	10/13/17 18:05	85-01-8	
Pyrene	<5.1	ug/kg	16.8	5.1	1	10/13/17 08:32	10/13/17 18:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	23-106		1	10/13/17 08:32	10/13/17 18:05	321-60-8	
Terphenyl-d14 (S)	62	%	29-106		1	10/13/17 08:32	10/13/17 18:05	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/12/17 11:00	10/13/17 02:14	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-6 (11-12') Lab ID: 40158427013 Collected: 10/09/17 13:00 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/12/17 11:00	10/13/17 02:14	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/12/17 11:00	10/13/17 02:14	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/12/17 11:00	10/13/17 02:14	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/12/17 11:00	10/13/17 02:14	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	108-20-3	W
Ethylbenzene	61.8J	ug/kg	67.3	28.0	1	10/12/17 11:00	10/13/17 02:14	100-41-4	
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/12/17 11:00	10/13/17 02:14	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	100-42-5	W
Tetrachloroethene	39.1J	ug/kg	67.3	28.0	1	10/12/17 11:00	10/13/17 02:14	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/12/17 11:00	10/13/17 02:14	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/12/17 11:00	10/13/17 02:14	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: B-6 (11-12') Lab ID: 40158427013 Collected: 10/09/17 13:00 Received: 10/11/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	32.5J	ug/kg	67.3	28.0	1	10/12/17 11:00	10/13/17 02:14	103-65-1	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/12/17 11:00	10/13/17 02:14	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	92	%	68-130		1	10/12/17 11:00	10/13/17 02:14	1868-53-7	
Toluene-d8 (S)	93	%	68-149		1	10/12/17 11:00	10/13/17 02:14	2037-26-5	
4-Bromofluorobenzene (S)	82	%	58-141		1	10/12/17 11:00	10/13/17 02:14	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.8	%	0.10	0.10	1		10/16/17 12:46		

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-2 Lab ID: 40158427014 Collected: 10/10/17 08:55 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	<8.3	ug/L	25.0	8.3	1	10/12/17 09:27	10/12/17 17:29	7440-38-2	
Barium	170	ug/L	5.0	1.5	1	10/12/17 09:27	10/12/17 17:29	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	10/12/17 09:27	10/12/17 17:29	7440-43-9	
Chromium	<2.5	ug/L	10.0	2.5	1	10/12/17 09:27	10/12/17 17:29	7440-47-3	
Lead	<4.3	ug/L	13.0	4.3	1	10/12/17 09:27	10/12/17 17:29	7439-92-1	
Selenium	<16.6	ug/L	50.0	16.6	1	10/12/17 09:27	10/12/17 17:29	7782-49-2	
Silver	<3.3	ug/L	10.0	3.3	1	10/12/17 09:27	10/12/17 17:29	7440-22-4	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	<0.13	ug/L	0.42	0.13	1	10/13/17 11:00	10/16/17 09:02	7439-97-6	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.022J	ug/L	0.062	0.012	1	10/12/17 12:41	10/13/17 16:26	83-32-9	
Acenaphthylene	<0.010	ug/L	0.051	0.010	1	10/12/17 12:41	10/13/17 16:26	208-96-8	
Anthracene	<0.021	ug/L	0.11	0.021	1	10/12/17 12:41	10/13/17 16:26	120-12-7	
Benzo(a)anthracene	<0.015	ug/L	0.077	0.015	1	10/12/17 12:41	10/13/17 16:26	56-55-3	
Benzo(a)pyrene	<0.021	ug/L	0.11	0.021	1	10/12/17 12:41	10/13/17 16:26	50-32-8	
Benzo(b)fluoranthene	0.024J	ug/L	0.059	0.012	1	10/12/17 12:41	10/13/17 16:26	205-99-2	
Benzo(g,h,i)perylene	0.019J	ug/L	0.069	0.014	1	10/12/17 12:41	10/13/17 16:26	191-24-2	
Benzo(k)fluoranthene	0.020J	ug/L	0.077	0.015	1	10/12/17 12:41	10/13/17 16:26	207-08-9	
Chrysene	0.040J	ug/L	0.13	0.027	1	10/12/17 12:41	10/13/17 16:26	218-01-9	
Dibenz(a,h)anthracene	<0.020	ug/L	0.10	0.020	1	10/12/17 12:41	10/13/17 16:26	53-70-3	
Fluoranthene	0.13	ug/L	0.11	0.022	1	10/12/17 12:41	10/13/17 16:26	206-44-0	
Fluorene	<0.016	ug/L	0.081	0.016	1	10/12/17 12:41	10/13/17 16:26	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.036	ug/L	0.18	0.036	1	10/12/17 12:41	10/13/17 16:26	193-39-5	
1-Methylnaphthalene	<0.012	ug/L	0.060	0.012	1	10/12/17 12:41	10/13/17 16:26	90-12-0	
2-Methylnaphthalene	<0.010	ug/L	0.050	0.010	1	10/12/17 12:41	10/13/17 16:26	91-57-6	
Naphthalene	<0.037	ug/L	0.19	0.037	1	10/12/17 12:41	10/13/17 16:26	91-20-3	
Phenanthrene	0.089J	ug/L	0.14	0.028	1	10/12/17 12:41	10/13/17 16:26	85-01-8	
Pyrene	0.11	ug/L	0.078	0.016	1	10/12/17 12:41	10/13/17 16:26	129-00-0	
Total PAHs	0.55	ug/L			1	10/12/17 12:41	10/13/17 16:26		
Surrogates									
2-Fluorobiphenyl (S)	50	%	35-84		1	10/12/17 12:41	10/13/17 16:26	321-60-8	
Terphenyl-d14 (S)	64	%	10-129		1	10/12/17 12:41	10/13/17 16:26	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/12/17 15:48	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/12/17 15:48	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/17 15:48	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 15:48	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/12/17 15:48	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	56-23-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: TW-2 Lab ID: 40158427014 Collected: 10/10/17 08:55 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/12/17 15:48	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/17 15:48	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/12/17 15:48	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/17 15:48	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/17 15:48	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/17 15:48	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/17 15:48	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/12/17 15:48	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/12/17 15:48	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/17 15:48	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/17 15:48	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/17 15:48	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/17 15:48	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/12/17 15:48	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/12/17 15:48	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/17 15:48	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/12/17 15:48	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/12/17 15:48	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	99-87-6	
Methylene Chloride	0.46J	ug/L	1.0	0.23	1		10/12/17 15:48	75-09-2	B
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/17 15:48	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/17 15:48	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	100-42-5	L1
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/12/17 15:48	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/12/17 15:48	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/12/17 15:48	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 15:48	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/17 15:48	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/12/17 15:48	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/17 15:48	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	96-18-4	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-2 Lab ID: 40158427014 Collected: 10/10/17 08:55 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/12/17 15:48	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/12/17 15:48	1330-20-7	LS
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/12/17 15:48	179601-23-1	L1
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/17 15:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		10/12/17 15:48	460-00-4	HS,pH
Dibromofluoromethane (S)	93	%	67-130		1		10/12/17 15:48	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		10/12/17 15:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-1 **Lab ID: 40158427015** Collected: 10/10/17 09:40 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	10J	ug/L	25.0	8.3	1	10/12/17 09:27	10/12/17 17:31	7440-38-2	
Barium	239	ug/L	5.0	1.5	1	10/12/17 09:27	10/12/17 17:31	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	10/12/17 09:27	10/12/17 17:31	7440-43-9	
Chromium	<2.5	ug/L	10.0	2.5	1	10/12/17 09:27	10/12/17 17:31	7440-47-3	
Lead	<4.3	ug/L	13.0	4.3	1	10/12/17 09:27	10/12/17 17:31	7439-92-1	
Selenium	<16.6	ug/L	50.0	16.6	1	10/12/17 09:27	10/12/17 17:31	7782-49-2	
Silver	<3.3	ug/L	10.0	3.3	1	10/12/17 09:27	10/12/17 17:31	7440-22-4	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	<0.25	ug/L	0.84	0.25	1	10/17/17 12:45	10/18/17 11:12	7439-97-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.051	ug/L	0.031	0.0063	1	10/12/17 12:41	10/13/17 16:44	83-32-9	
Acenaphthylene	0.0082J	ug/L	0.026	0.0051	1	10/12/17 12:41	10/13/17 16:44	208-96-8	
Anthracene	0.060	ug/L	0.054	0.011	1	10/12/17 12:41	10/13/17 16:44	120-12-7	
Benzo(a)anthracene	0.088	ug/L	0.039	0.0078	1	10/12/17 12:41	10/13/17 16:44	56-55-3	
Benzo(a)pyrene	0.075	ug/L	0.054	0.011	1	10/12/17 12:41	10/13/17 16:44	50-32-8	
Benzo(b)fluoranthene	0.12	ug/L	0.030	0.0059	1	10/12/17 12:41	10/13/17 16:44	205-99-2	
Benzo(g,h,i)perylene	0.077	ug/L	0.035	0.0070	1	10/12/17 12:41	10/13/17 16:44	191-24-2	
Benzo(k)fluoranthene	0.074	ug/L	0.039	0.0078	1	10/12/17 12:41	10/13/17 16:44	207-08-9	
Chrysene	0.17	ug/L	0.067	0.013	1	10/12/17 12:41	10/13/17 16:44	218-01-9	
Dibenz(a,h)anthracene	0.013J	ug/L	0.052	0.010	1	10/12/17 12:41	10/13/17 16:44	53-70-3	
Fluoranthene	0.35	ug/L	0.055	0.011	1	10/12/17 12:41	10/13/17 16:44	206-44-0	
Fluorene	0.040J	ug/L	0.041	0.0082	1	10/12/17 12:41	10/13/17 16:44	86-73-7	
Indeno(1,2,3-cd)pyrene	0.059J	ug/L	0.091	0.018	1	10/12/17 12:41	10/13/17 16:44	193-39-5	
1-Methylnaphthalene	0.033	ug/L	0.030	0.0061	1	10/12/17 12:41	10/13/17 16:44	90-12-0	
2-Methylnaphthalene	0.036	ug/L	0.025	0.0051	1	10/12/17 12:41	10/13/17 16:44	91-57-6	
Naphthalene	0.17	ug/L	0.094	0.019	1	10/12/17 12:41	10/13/17 16:44	91-20-3	
Phenanthrene	0.33	ug/L	0.071	0.014	1	10/12/17 12:41	10/13/17 16:44	85-01-8	
Pyrene	0.32	ug/L	0.039	0.0079	1	10/12/17 12:41	10/13/17 16:44	129-00-0	
Total PAHs	2.1	ug/L			1	10/12/17 12:41	10/13/17 16:44		
Surrogates									
2-Fluorobiphenyl (S)	61	%	35-84		1	10/12/17 12:41	10/13/17 16:44	321-60-8	
Terphenyl-d14 (S)	68	%	10-129		1	10/12/17 12:41	10/13/17 16:44	1718-51-0	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/12/17 13:35	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/12/17 13:35	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/17 13:35	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 13:35	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/12/17 13:35	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	56-23-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-1 Lab ID: 40158427015 Collected: 10/10/17 09:40 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/12/17 13:35	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/17 13:35	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/12/17 13:35	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/17 13:35	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/17 13:35	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/17 13:35	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/17 13:35	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/12/17 13:35	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/12/17 13:35	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/17 13:35	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/17 13:35	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/17 13:35	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/17 13:35	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/12/17 13:35	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/12/17 13:35	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/17 13:35	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/12/17 13:35	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/12/17 13:35	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	99-87-6	
Methylene Chloride	0.42J	ug/L	1.0	0.23	1		10/12/17 13:35	75-09-2	B
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/17 13:35	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/17 13:35	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	100-42-5	L1
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/12/17 13:35	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/12/17 13:35	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/12/17 13:35	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 13:35	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/17 13:35	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/12/17 13:35	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/17 13:35	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	96-18-4	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: TW-1 Lab ID: 40158427015 Collected: 10/10/17 09:40 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/12/17 13:35	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/12/17 13:35	1330-20-7	LS
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/12/17 13:35	179601-23-1	L1
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	61-130		1		10/12/17 13:35	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		1		10/12/17 13:35	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		10/12/17 13:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: TW-4 Lab ID: 40158427016 Collected: 10/10/17 10:10 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	<8.3	ug/L	25.0	8.3	1	10/12/17 09:27	10/12/17 17:39	7440-38-2	
Barium	141	ug/L	5.0	1.5	1	10/12/17 09:27	10/12/17 17:39	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	10/12/17 09:27	10/12/17 17:39	7440-43-9	
Chromium	<2.5	ug/L	10.0	2.5	1	10/12/17 09:27	10/12/17 17:39	7440-47-3	
Lead	<4.3	ug/L	13.0	4.3	1	10/12/17 09:27	10/12/17 17:39	7439-92-1	
Selenium	<16.6	ug/L	50.0	16.6	1	10/12/17 09:27	10/12/17 17:39	7782-49-2	
Silver	<3.3	ug/L	10.0	3.3	1	10/12/17 09:27	10/12/17 17:39	7440-22-4	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	<0.50	ug/L	1.7	0.50	1	10/17/17 12:45	10/18/17 11:15	7439-97-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.014J	ug/L	0.032	0.0065	1	10/12/17 12:41	10/13/17 17:03	83-32-9	
Acenaphthylene	<0.0053	ug/L	0.026	0.0053	1	10/12/17 12:41	10/13/17 17:03	208-96-8	
Anthracene	0.014J	ug/L	0.056	0.011	1	10/12/17 12:41	10/13/17 17:03	120-12-7	
Benzo(a)anthracene	0.030J	ug/L	0.040	0.0080	1	10/12/17 12:41	10/13/17 17:03	56-55-3	
Benzo(a)pyrene	0.031J	ug/L	0.056	0.011	1	10/12/17 12:41	10/13/17 17:03	50-32-8	
Benzo(b)fluoranthene	0.067	ug/L	0.031	0.0061	1	10/12/17 12:41	10/13/17 17:03	205-99-2	
Benzo(g,h,i)perylene	0.046	ug/L	0.036	0.0072	1	10/12/17 12:41	10/13/17 17:03	191-24-2	
Benzo(k)fluoranthene	0.036J	ug/L	0.040	0.0080	1	10/12/17 12:41	10/13/17 17:03	207-08-9	
Chrysene	0.071	ug/L	0.069	0.014	1	10/12/17 12:41	10/13/17 17:03	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.053	0.011	1	10/12/17 12:41	10/13/17 17:03	53-70-3	
Fluoranthene	0.21	ug/L	0.057	0.011	1	10/12/17 12:41	10/13/17 17:03	206-44-0	
Fluorene	0.014J	ug/L	0.042	0.0085	1	10/12/17 12:41	10/13/17 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	0.034J	ug/L	0.094	0.019	1	10/12/17 12:41	10/13/17 17:03	193-39-5	
1-Methylnaphthalene	0.0082J	ug/L	0.031	0.0063	1	10/12/17 12:41	10/13/17 17:03	90-12-0	
2-Methylnaphthalene	0.012J	ug/L	0.026	0.0052	1	10/12/17 12:41	10/13/17 17:03	91-57-6	
Naphthalene	<0.020	ug/L	0.097	0.020	1	10/12/17 12:41	10/13/17 17:03	91-20-3	
Phenanthrene	0.17	ug/L	0.073	0.015	1	10/12/17 12:41	10/13/17 17:03	85-01-8	
Pyrene	0.17	ug/L	0.041	0.0081	1	10/12/17 12:41	10/13/17 17:03	129-00-0	
Total PAHs	0.95	ug/L			1	10/12/17 12:41	10/13/17 17:03		
Surrogates									
2-Fluorobiphenyl (S)	59	%	35-84		1	10/12/17 12:41	10/13/17 17:03	321-60-8	
Terphenyl-d14 (S)	76	%	10-129		1	10/12/17 12:41	10/13/17 17:03	1718-51-0	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/12/17 13:58	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/12/17 13:58	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/17 13:58	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 13:58	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/12/17 13:58	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-4 Lab ID: 40158427016 Collected: 10/10/17 10:10 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/12/17 13:58	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/17 13:58	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/12/17 13:58	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/17 13:58	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/17 13:58	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/17 13:58	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/17 13:58	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/12/17 13:58	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/12/17 13:58	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/17 13:58	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/17 13:58	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/17 13:58	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/17 13:58	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/12/17 13:58	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/12/17 13:58	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/17 13:58	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/12/17 13:58	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/12/17 13:58	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	99-87-6	
Methylene Chloride	0.46J	ug/L	1.0	0.23	1		10/12/17 13:58	75-09-2	B
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/17 13:58	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/17 13:58	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	100-42-5	L1
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/12/17 13:58	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/12/17 13:58	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/12/17 13:58	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 13:58	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/17 13:58	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/12/17 13:58	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/17 13:58	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	96-18-4	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: TW-4 Lab ID: 40158427016 Collected: 10/10/17 10:10 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/12/17 13:58	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/12/17 13:58	1330-20-7	LS
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/12/17 13:58	179601-23-1	L1
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/17 13:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		10/12/17 13:58	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		10/12/17 13:58	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		10/12/17 13:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-3 Lab ID: 40158427017 Collected: 10/10/17 10:30 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	<8.3	ug/L	25.0	8.3	1	10/12/17 09:27	10/12/17 17:41	7440-38-2	
Barium	114	ug/L	5.0	1.5	1	10/12/17 09:27	10/12/17 17:41	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	10/12/17 09:27	10/12/17 17:41	7440-43-9	
Chromium	<2.5	ug/L	10.0	2.5	1	10/12/17 09:27	10/12/17 17:41	7440-47-3	
Lead	<4.3	ug/L	13.0	4.3	1	10/12/17 09:27	10/12/17 17:41	7439-92-1	
Selenium	<16.6	ug/L	50.0	16.6	1	10/12/17 09:27	10/12/17 17:41	7782-49-2	
Silver	<3.3	ug/L	10.0	3.3	1	10/12/17 09:27	10/12/17 17:41	7440-22-4	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	<0.13	ug/L	0.42	0.13	1	10/13/17 11:00	10/16/17 09:04	7439-97-6	
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.0084J	ug/L	0.039	0.0079	1	10/12/17 12:41	10/13/17 17:21	83-32-9	
Acenaphthylene	<0.0065	ug/L	0.032	0.0065	1	10/12/17 12:41	10/13/17 17:21	208-96-8	
Anthracene	<0.014	ug/L	0.068	0.014	1	10/12/17 12:41	10/13/17 17:21	120-12-7	
Benzo(a)anthracene	0.023J	ug/L	0.049	0.0098	1	10/12/17 12:41	10/13/17 17:21	56-55-3	
Benzo(a)pyrene	0.020J	ug/L	0.068	0.014	1	10/12/17 12:41	10/13/17 17:21	50-32-8	
Benzo(b)fluoranthene	0.043	ug/L	0.037	0.0075	1	10/12/17 12:41	10/13/17 17:21	205-99-2	
Benzo(g,h,i)perylene	0.033J	ug/L	0.044	0.0088	1	10/12/17 12:41	10/13/17 17:21	191-24-2	
Benzo(k)fluoranthene	0.026J	ug/L	0.049	0.0098	1	10/12/17 12:41	10/13/17 17:21	207-08-9	
Chrysene	0.066J	ug/L	0.085	0.017	1	10/12/17 12:41	10/13/17 17:21	218-01-9	
Dibenz(a,h)anthracene	<0.013	ug/L	0.065	0.013	1	10/12/17 12:41	10/13/17 17:21	53-70-3	
Fluoranthene	0.15	ug/L	0.069	0.014	1	10/12/17 12:41	10/13/17 17:21	206-44-0	
Fluorene	<0.010	ug/L	0.052	0.010	1	10/12/17 12:41	10/13/17 17:21	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.023	ug/L	0.11	0.023	1	10/12/17 12:41	10/13/17 17:21	193-39-5	
1-Methylnaphthalene	0.012J	ug/L	0.038	0.0077	1	10/12/17 12:41	10/13/17 17:21	90-12-0	
2-Methylnaphthalene	0.014J	ug/L	0.032	0.0064	1	10/12/17 12:41	10/13/17 17:21	91-57-6	
Naphthalene	<0.024	ug/L	0.12	0.024	1	10/12/17 12:41	10/13/17 17:21	91-20-3	
Phenanthrene	0.13	ug/L	0.090	0.018	1	10/12/17 12:41	10/13/17 17:21	85-01-8	
Pyrene	0.14	ug/L	0.050	0.0099	1	10/12/17 12:41	10/13/17 17:21	129-00-0	
Total PAHs	0.71	ug/L			1	10/12/17 12:41	10/13/17 17:21		
Surrogates									
2-Fluorobiphenyl (S)	58	%	35-84		1	10/12/17 12:41	10/13/17 17:21	321-60-8	
Terphenyl-d14 (S)	33	%	10-129		1	10/12/17 12:41	10/13/17 17:21	1718-51-0	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/12/17 14:42	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/12/17 14:42	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/17 14:42	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 14:42	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/12/17 14:42	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	56-23-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: TW-3 Lab ID: 40158427017 Collected: 10/10/17 10:30 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/12/17 14:42	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/17 14:42	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/12/17 14:42	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/17 14:42	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/17 14:42	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/17 14:42	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/17 14:42	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/12/17 14:42	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/12/17 14:42	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/17 14:42	75-35-4	
cis-1,2-Dichloroethene	3.3	ug/L	1.0	0.26	1		10/12/17 14:42	156-59-2	
trans-1,2-Dichloroethene	0.65J	ug/L	1.0	0.26	1		10/12/17 14:42	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/17 14:42	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/12/17 14:42	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/12/17 14:42	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/17 14:42	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/12/17 14:42	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/12/17 14:42	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	99-87-6	
Methylene Chloride	0.31J	ug/L	1.0	0.23	1		10/12/17 14:42	75-09-2	B
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/17 14:42	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/17 14:42	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	100-42-5	L1
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/12/17 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/12/17 14:42	79-34-5	
Tetrachloroethene	188	ug/L	1.0	0.50	1		10/12/17 14:42	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/12/17 14:42	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 14:42	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/17 14:42	79-00-5	
Trichloroethene	8.5	ug/L	1.0	0.33	1		10/12/17 14:42	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/17 14:42	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	96-18-4	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-3 Lab ID: 40158427017 Collected: 10/10/17 10:30 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/12/17 14:42	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/12/17 14:42	1330-20-7	LS
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/12/17 14:42	179601-23-1	L1
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	61-130		1		10/12/17 14:42	460-00-4	pH
Dibromofluoromethane (S)	89	%	67-130		1		10/12/17 14:42	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		10/12/17 14:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-5 Lab ID: 40158427018 Collected: 10/10/17 11:05 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	<8.3	ug/L	25.0	8.3	1	10/12/17 09:27	10/12/17 17:44	7440-38-2	
Barium	370	ug/L	5.0	1.5	1	10/12/17 09:27	10/12/17 17:44	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	10/12/17 09:27	10/12/17 17:44	7440-43-9	
Chromium	<2.5	ug/L	10.0	2.5	1	10/12/17 09:27	10/12/17 17:44	7440-47-3	
Lead	<4.3	ug/L	13.0	4.3	1	10/12/17 09:27	10/12/17 17:44	7439-92-1	
Selenium	<16.6	ug/L	50.0	16.6	1	10/12/17 09:27	10/12/17 17:44	7782-49-2	
Silver	<3.3	ug/L	10.0	3.3	1	10/12/17 09:27	10/12/17 17:44	7440-22-4	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	<0.50	ug/L	1.7	0.50	1	10/17/17 12:45	10/18/17 11:17	7439-97-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.028J	ug/L	0.033	0.0065	1	10/12/17 12:41	10/13/17 21:01	83-32-9	
Acenaphthylene	0.0062J	ug/L	0.027	0.0054	1	10/12/17 12:41	10/13/17 21:01	208-96-8	
Anthracene	<0.011	ug/L	0.056	0.011	1	10/12/17 12:41	10/13/17 21:01	120-12-7	
Benzo(a)anthracene	0.0085J	ug/L	0.041	0.0081	1	10/12/17 12:41	10/13/17 21:01	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.057	0.011	1	10/12/17 12:41	10/13/17 21:01	50-32-8	
Benzo(b)fluoranthene	<0.0062	ug/L	0.031	0.0062	1	10/12/17 12:41	10/13/17 21:01	205-99-2	
Benzo(g,h,i)perylene	<0.0073	ug/L	0.036	0.0073	1	10/12/17 12:41	10/13/17 21:01	191-24-2	
Benzo(k)fluoranthene	<0.0081	ug/L	0.041	0.0081	1	10/12/17 12:41	10/13/17 21:01	207-08-9	
Chrysene	0.031J	ug/L	0.070	0.014	1	10/12/17 12:41	10/13/17 21:01	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.054	0.011	1	10/12/17 12:41	10/13/17 21:01	53-70-3	
Fluoranthene	0.033J	ug/L	0.057	0.011	1	10/12/17 12:41	10/13/17 21:01	206-44-0	
Fluorene	0.017J	ug/L	0.043	0.0086	1	10/12/17 12:41	10/13/17 21:01	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.095	0.019	1	10/12/17 12:41	10/13/17 21:01	193-39-5	
1-Methylnaphthalene	1.4	ug/L	0.032	0.0063	1	10/12/17 12:41	10/13/17 21:01	90-12-0	
2-Methylnaphthalene	0.041	ug/L	0.026	0.0053	1	10/12/17 12:41	10/13/17 21:01	91-57-6	
Naphthalene	2.5	ug/L	0.099	0.020	1	10/12/17 12:41	10/13/17 21:01	91-20-3	
Phenanthrene	0.073J	ug/L	0.074	0.015	1	10/12/17 12:41	10/13/17 21:01	85-01-8	
Pyrene	0.030J	ug/L	0.041	0.0082	1	10/12/17 12:41	10/13/17 21:01	129-00-0	
Total PAHs	4.2	ug/L			1	10/12/17 12:41	10/13/17 21:01		
Surrogates									
2-Fluorobiphenyl (S)	67	%	35-84		1	10/12/17 12:41	10/13/17 21:01	321-60-8	
Terphenyl-d14 (S)	69	%	10-129		1	10/12/17 12:41	10/13/17 21:01	1718-51-0	
8260 MSV Analytical Method: EPA 8260									
Benzene	12.3	ug/L	1.0	0.50	1		10/12/17 14:20	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/12/17 14:20	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/12/17 14:20	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/17 14:20	74-83-9	
n-Butylbenzene	13.5	ug/L	1.0	0.50	1		10/12/17 14:20	104-51-8	
sec-Butylbenzene	7.3	ug/L	5.0	2.2	1		10/12/17 14:20	135-98-8	
tert-Butylbenzene	0.67J	ug/L	1.0	0.18	1		10/12/17 14:20	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	56-23-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-5 Lab ID: 40158427018 Collected: 10/10/17 11:05 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/12/17 14:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/17 14:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/12/17 14:20	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/17 14:20	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/17 14:20	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/17 14:20	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/17 14:20	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/12/17 14:20	75-34-3	
1,2-Dichloroethane	2.2	ug/L	1.0	0.17	1		10/12/17 14:20	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/17 14:20	75-35-4	
cis-1,2-Dichloroethene	3.4	ug/L	1.0	0.26	1		10/12/17 14:20	156-59-2	
trans-1,2-Dichloroethene	2.0	ug/L	1.0	0.26	1		10/12/17 14:20	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/17 14:20	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/12/17 14:20	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/12/17 14:20	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/17 14:20	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	108-20-3	
Ethylbenzene	23.6	ug/L	1.0	0.50	1		10/12/17 14:20	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/12/17 14:20	87-68-3	
Isopropylbenzene (Cumene)	12.7	ug/L	1.0	0.14	1		10/12/17 14:20	98-82-8	
p-Isopropyltoluene	3.2	ug/L	1.0	0.50	1		10/12/17 14:20	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/12/17 14:20	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/17 14:20	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/17 14:20	91-20-3	
n-Propylbenzene	47.7	ug/L	1.0	0.50	1		10/12/17 14:20	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	100-42-5	L1
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/12/17 14:20	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/12/17 14:20	79-34-5	
Tetrachloroethene	2.0	ug/L	1.0	0.50	1		10/12/17 14:20	127-18-4	
Toluene	0.68J	ug/L	1.0	0.50	1		10/12/17 14:20	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/12/17 14:20	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/12/17 14:20	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/17 14:20	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/12/17 14:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/17 14:20	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	96-18-4	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-5 Lab ID: 40158427018 Collected: 10/10/17 11:05 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2,4-Trimethylbenzene	17.9	ug/L	1.0	0.50	1		10/12/17 14:20	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	108-67-8	
Vinyl chloride	0.43J	ug/L	1.0	0.18	1		10/12/17 14:20	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/12/17 14:20	1330-20-7	LS
m&p-Xylene	1.2J	ug/L	2.0	1.0	1		10/12/17 14:20	179601-23-1	L1
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/17 14:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		10/12/17 14:20	460-00-4	
Dibromofluoromethane (S)	89	%	67-130		1		10/12/17 14:20	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		10/12/17 14:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-6 Lab ID: 40158427019 Collected: 10/10/17 11:35 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	10.9J	ug/L	25.0	8.3	1	10/12/17 09:27	10/12/17 17:47	7440-38-2	
Barium	204	ug/L	5.0	1.5	1	10/12/17 09:27	10/12/17 17:47	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	10/12/17 09:27	10/12/17 17:47	7440-43-9	
Chromium	<2.5	ug/L	10.0	2.5	1	10/12/17 09:27	10/12/17 17:47	7440-47-3	
Lead	<4.3	ug/L	13.0	4.3	1	10/12/17 09:27	10/12/17 17:47	7439-92-1	
Selenium	<16.6	ug/L	50.0	16.6	1	10/12/17 09:27	10/12/17 17:47	7782-49-2	
Silver	<3.3	ug/L	10.0	3.3	1	10/12/17 09:27	10/12/17 17:47	7440-22-4	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	<0.25	ug/L	0.84	0.25	1	10/17/17 12:45	10/18/17 11:19	7439-97-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.015J	ug/L	0.034	0.0067	1	10/12/17 12:41	10/13/17 20:43	83-32-9	
Acenaphthylene	0.0062J	ug/L	0.028	0.0055	1	10/12/17 12:41	10/13/17 20:43	208-96-8	
Anthracene	<0.012	ug/L	0.058	0.012	1	10/12/17 12:41	10/13/17 20:43	120-12-7	
Benzo(a)anthracene	0.0087J	ug/L	0.042	0.0084	1	10/12/17 12:41	10/13/17 20:43	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.058	0.012	1	10/12/17 12:41	10/13/17 20:43	50-32-8	
Benzo(b)fluoranthene	<0.0064	ug/L	0.032	0.0064	1	10/12/17 12:41	10/13/17 20:43	205-99-2	
Benzo(g,h,i)perylene	<0.0075	ug/L	0.038	0.0075	1	10/12/17 12:41	10/13/17 20:43	191-24-2	
Benzo(k)fluoranthene	<0.0084	ug/L	0.042	0.0084	1	10/12/17 12:41	10/13/17 20:43	207-08-9	
Chrysene	<0.014	ug/L	0.072	0.014	1	10/12/17 12:41	10/13/17 20:43	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.056	0.011	1	10/12/17 12:41	10/13/17 20:43	53-70-3	
Fluoranthene	0.066	ug/L	0.059	0.012	1	10/12/17 12:41	10/13/17 20:43	206-44-0	
Fluorene	0.011J	ug/L	0.044	0.0089	1	10/12/17 12:41	10/13/17 20:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.020	ug/L	0.098	0.020	1	10/12/17 12:41	10/13/17 20:43	193-39-5	
1-Methylnaphthalene	3.2	ug/L	0.033	0.0066	1	10/12/17 12:41	10/13/17 20:43	90-12-0	
2-Methylnaphthalene	0.15	ug/L	0.027	0.0054	1	10/12/17 12:41	10/13/17 20:43	91-57-6	
Naphthalene	5.6	ug/L	0.10	0.020	1	10/12/17 12:41	10/13/17 20:43	91-20-3	
Phenanthrene	0.10	ug/L	0.077	0.015	1	10/12/17 12:41	10/13/17 20:43	85-01-8	
Pyrene	0.055	ug/L	0.043	0.0085	1	10/12/17 12:41	10/13/17 20:43	129-00-0	
Total PAHs	9.3	ug/L			1	10/12/17 12:41	10/13/17 20:43		
Surrogates									
2-Fluorobiphenyl (S)	53	%	35-84		1	10/12/17 12:41	10/13/17 20:43	321-60-8	
Terphenyl-d14 (S)	65	%	10-129		1	10/12/17 12:41	10/13/17 20:43	1718-51-0	
8260 MSV Analytical Method: EPA 8260									
Benzene	681	ug/L	10.0	5.0	10		10/13/17 10:47	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		10/13/17 10:47	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		10/13/17 10:47	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		10/13/17 10:47	74-83-9	
n-Butylbenzene	5.8J	ug/L	10.0	5.0	10		10/13/17 10:47	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		10/13/17 10:47	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		10/13/17 10:47	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	56-23-5	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Sample: TW-6 Lab ID: 40158427019 Collected: 10/10/17 11:35 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		10/13/17 10:47	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		10/13/17 10:47	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		10/13/17 10:47	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		10/13/17 10:47	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		10/13/17 10:47	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		10/13/17 10:47	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		10/13/17 10:47	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		10/13/17 10:47	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		10/13/17 10:47	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		10/13/17 10:47	75-35-4	
cis-1,2-Dichloroethene	4.9J	ug/L	10.0	2.6	10		10/13/17 10:47	156-59-2	
trans-1,2-Dichloroethene	<2.6	ug/L	10.0	2.6	10		10/13/17 10:47	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		10/13/17 10:47	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		10/13/17 10:47	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		10/13/17 10:47	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		10/13/17 10:47	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	108-20-3	
Ethylbenzene	404	ug/L	10.0	5.0	10		10/13/17 10:47	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		10/13/17 10:47	87-68-3	
Isopropylbenzene (Cumene)	9.3J	ug/L	10.0	1.4	10		10/13/17 10:47	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		10/13/17 10:47	75-09-2	
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		10/13/17 10:47	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		10/13/17 10:47	91-20-3	
n-Propylbenzene	21.8	ug/L	10.0	5.0	10		10/13/17 10:47	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	100-42-5	L1
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		10/13/17 10:47	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		10/13/17 10:47	79-34-5	
Tetrachloroethene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	127-18-4	
Toluene	65.1	ug/L	10.0	5.0	10		10/13/17 10:47	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		10/13/17 10:47	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		10/13/17 10:47	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		10/13/17 10:47	79-00-5	
Trichloroethene	<3.3	ug/L	10.0	3.3	10		10/13/17 10:47	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		10/13/17 10:47	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	96-18-4	

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ANALYTICAL RESULTS

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Sample: TW-6 Lab ID: 40158427019 Collected: 10/10/17 11:35 Received: 10/11/17 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2,4-Trimethylbenzene	154	ug/L	10.0	5.0	10		10/13/17 10:47	95-63-6	
1,3,5-Trimethylbenzene	7.5J	ug/L	10.0	5.0	10		10/13/17 10:47	108-67-8	
Vinyl chloride	<1.8	ug/L	10.0	1.8	10		10/13/17 10:47	75-01-4	
Xylene (Total)	250	ug/L	30.0	15.0	10		10/13/17 10:47	1330-20-7	LS
m&p-Xylene	246	ug/L	20.0	10.0	10		10/13/17 10:47	179601-23-1	L1
o-Xylene	<5.0	ug/L	10.0	5.0	10		10/13/17 10:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		10		10/13/17 10:47	460-00-4	
Dibromofluoromethane (S)	90	%	67-130		10		10/13/17 10:47	1868-53-7	
Toluene-d8 (S)	93	%	70-130		10		10/13/17 10:47	2037-26-5	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

QC Batch: 270522 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 40158427014, 40158427017

METHOD BLANK: 1589868 Matrix: Water

Associated Lab Samples: 40158427014, 40158427017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.42	10/16/17 08:46	

LABORATORY CONTROL SAMPLE: 1589869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589870 1589871

Parameter	Units	40158330009		1589870		1589871		% Rec Limits	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	ug/L	<0.13	5	5	5.1	5.1	101	101	85-115	0	20

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

QC Batch: 270857 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 40158427015, 40158427016, 40158427018, 40158427019

METHOD BLANK: 1592216 Matrix: Water
Associated Lab Samples: 40158427015, 40158427016, 40158427018, 40158427019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.42	10/18/17 10:56	

LABORATORY CONTROL SAMPLE: 1592217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1592218 1592219

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max		Qual
		40158646008 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	RPD		RPD		
Mercury	ug/L	<0.13	5	5	4.9	5.0	98	100	85-115	2	20		

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

QC Batch:	270711	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	40158427001, 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427008, 40158427009, 40158427010		

METHOD BLANK:	1591630	Matrix:	Solid
Associated Lab Samples:	40158427001, 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427008, 40158427009, 40158427010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	10/17/17 11:06	

LABORATORY CONTROL SAMPLE: 1591631						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.93	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591632 1591633											
Parameter	Units	40157938015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Mercury	mg/kg	<0.012	.88	.87	0.86	0.82	99	94	85-115	6 20	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

QC Batch: 270712 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40158427011, 40158427012, 40158427013

METHOD BLANK: 1591634 Matrix: Solid
Associated Lab Samples: 40158427011, 40158427012, 40158427013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	10/17/17 12:10	

LABORATORY CONTROL SAMPLE: 1591635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.82	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591636 1591637

Parameter	Units	40158427011 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury	mg/kg	0.020J	1	1	0.78	0.79	74	75	85-115	1	20	M0		

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

QC Batch:	270418	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	40158427001, 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427008, 40158427009, 40158427010, 40158427011, 40158427012, 40158427013		

METHOD BLANK:	1589201	Matrix:	Solid
Associated Lab Samples:	40158427001, 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427008, 40158427009, 40158427010, 40158427011, 40158427012, 40158427013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	10/13/17 21:15	
Barium	mg/kg	<0.15	0.50	10/13/17 21:15	
Cadmium	mg/kg	<0.13	0.50	10/13/17 21:15	
Chromium	mg/kg	<0.28	1.0	10/13/17 21:15	
Lead	mg/kg	<0.43	1.3	10/13/17 21:15	
Selenium	mg/kg	<1.1	5.0	10/13/17 21:15	
Silver	mg/kg	<0.34	1.0	10/13/17 21:15	

LABORATORY CONTROL SAMPLE: 1589202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.0	100	80-120	
Barium	mg/kg	50	51.1	102	80-120	
Cadmium	mg/kg	50	51.5	103	80-120	
Chromium	mg/kg	50	50.6	101	80-120	
Lead	mg/kg	50	50.7	101	80-120	
Selenium	mg/kg	50	52.2	104	80-120	
Silver	mg/kg	25	25.4	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589203 1589204

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.						
Arsenic	mg/kg	8.5	58.6	59	65.9	67.2	98	100	75-125	2	20
Barium	mg/kg	60.8	58.6	59	128	133	115	122	75-125	3	20
Cadmium	mg/kg	<0.16	58.6	59	59.6	60.6	102	103	75-125	2	20
Chromium	mg/kg	28.4	58.6	59	86.8	85.0	100	96	75-125	2	20
Lead	mg/kg	13.8	58.6	59	65.6	66.0	88	89	75-125	1	20
Selenium	mg/kg	<1.3	58.6	59	59.8	59.7	102	101	75-125	0	20
Silver	mg/kg	<0.40	29.3	29.5	30.1	30.6	102	103	75-125	2	20

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

QC Batch: 270342 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 40158427014, 40158427015, 40158427016, 40158427017, 40158427018, 40158427019

METHOD BLANK: 1588846 Matrix: Water
Associated Lab Samples: 40158427014, 40158427015, 40158427016, 40158427017, 40158427018, 40158427019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<8.3	25.0	10/12/17 16:41	
Barium	ug/L	<1.5	5.0	10/12/17 16:41	
Cadmium	ug/L	<1.3	5.0	10/12/17 16:41	
Chromium	ug/L	<2.5	10.0	10/12/17 16:41	
Lead	ug/L	<4.3	13.0	10/12/17 16:41	
Selenium	ug/L	<16.6	50.0	10/12/17 16:41	
Silver	ug/L	<3.3	10.0	10/12/17 16:41	

LABORATORY CONTROL SAMPLE: 1588847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	508	102	80-120	
Barium	ug/L	500	529	106	80-120	
Cadmium	ug/L	500	519	104	80-120	
Chromium	ug/L	500	525	105	80-120	
Lead	ug/L	500	506	101	80-120	
Selenium	ug/L	500	532	106	80-120	
Silver	ug/L	250	254	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1588848 1588849

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40158149001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
Arsenic	ug/L	<8.3	500	500	511	508	102	101	75-125	1	20
Barium	ug/L	15.9	500	500	542	547	105	106	75-125	1	20
Cadmium	ug/L	<1.3	500	500	519	525	104	105	75-125	1	20
Chromium	ug/L	<2.5	500	500	535	536	107	107	75-125	0	20
Lead	ug/L	<4.3	500	500	507	511	101	102	75-125	1	20
Selenium	ug/L	<16.6	500	500	519	529	104	106	75-125	2	20
Silver	ug/L	<3.3	250	250	258	259	103	104	75-125	1	20

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

QC Batch: 270402 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427007, 40158427008, 40158427009, 40158427010

METHOD BLANK: 1589146 Matrix: Solid
Associated Lab Samples: 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427007, 40158427008, 40158427009, 40158427010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	10/12/17 09:24	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	10/12/17 09:24	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	10/12/17 09:24	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	10/12/17 09:24	
1,1-Dichloroethane	ug/kg	<17.6	50.0	10/12/17 09:24	
1,1-Dichloroethene	ug/kg	<17.6	50.0	10/12/17 09:24	
1,1-Dichloropropene	ug/kg	<14.0	50.0	10/12/17 09:24	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	10/12/17 09:24	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	10/12/17 09:24	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	10/12/17 09:24	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/12/17 09:24	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	10/12/17 09:24	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	10/12/17 09:24	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	10/12/17 09:24	
1,2-Dichloroethane	ug/kg	<15.0	50.0	10/12/17 09:24	
1,2-Dichloropropane	ug/kg	<16.8	50.0	10/12/17 09:24	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/12/17 09:24	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	10/12/17 09:24	
1,3-Dichloropropane	ug/kg	<12.0	50.0	10/12/17 09:24	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	10/12/17 09:24	
2,2-Dichloropropane	ug/kg	<12.6	50.0	10/12/17 09:24	
2-Chlorotoluene	ug/kg	<15.8	50.0	10/12/17 09:24	
4-Chlorotoluene	ug/kg	<13.0	50.0	10/12/17 09:24	
Benzene	ug/kg	<9.2	20.0	10/12/17 09:24	
Bromobenzene	ug/kg	<20.6	50.0	10/12/17 09:24	
Bromochloromethane	ug/kg	<21.4	50.0	10/12/17 09:24	
Bromodichloromethane	ug/kg	<9.8	50.0	10/12/17 09:24	
Bromoform	ug/kg	<19.8	50.0	10/12/17 09:24	
Bromomethane	ug/kg	<69.9	250	10/12/17 09:24	
Carbon tetrachloride	ug/kg	<12.1	50.0	10/12/17 09:24	
Chlorobenzene	ug/kg	<14.8	50.0	10/12/17 09:24	
Chloroethane	ug/kg	<67.0	250	10/12/17 09:24	
Chloroform	ug/kg	<46.4	250	10/12/17 09:24	
Chloromethane	ug/kg	<20.4	50.0	10/12/17 09:24	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	10/12/17 09:24	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	10/12/17 09:24	
Dibromochloromethane	ug/kg	<17.9	50.0	10/12/17 09:24	
Dibromomethane	ug/kg	<19.3	50.0	10/12/17 09:24	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	10/12/17 09:24	
Diisopropyl ether	ug/kg	<17.7	50.0	10/12/17 09:24	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

METHOD BLANK: 1589146

Matrix: Solid

Associated Lab Samples: 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427007, 40158427008, 40158427009, 40158427010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	10/12/17 09:24	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	10/12/17 09:24	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	10/12/17 09:24	
m&p-Xylene	ug/kg	<34.4	100	10/12/17 09:24	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/12/17 09:24	
Methylene Chloride	ug/kg	<16.2	50.0	10/12/17 09:24	
n-Butylbenzene	ug/kg	<10.5	50.0	10/12/17 09:24	
n-Propylbenzene	ug/kg	<11.6	50.0	10/12/17 09:24	
Naphthalene	ug/kg	<40.0	250	10/12/17 09:24	
o-Xylene	ug/kg	<14.0	50.0	10/12/17 09:24	
p-Isopropyltoluene	ug/kg	<12.0	50.0	10/12/17 09:24	
sec-Butylbenzene	ug/kg	<11.9	50.0	10/12/17 09:24	
Styrene	ug/kg	<9.0	50.0	10/12/17 09:24	
tert-Butylbenzene	ug/kg	<9.5	50.0	10/12/17 09:24	
Tetrachloroethene	ug/kg	<12.9	50.0	10/12/17 09:24	
Toluene	ug/kg	<11.2	50.0	10/12/17 09:24	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	10/12/17 09:24	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	10/12/17 09:24	
Trichloroethene	ug/kg	<23.6	50.0	10/12/17 09:24	
Trichlorofluoromethane	ug/kg	<24.7	50.0	10/12/17 09:24	
Vinyl chloride	ug/kg	<21.1	50.0	10/12/17 09:24	
Xylene (Total)	ug/kg	<48.4	150	10/12/17 09:24	
4-Bromofluorobenzene (S)	%	83	58-141	10/12/17 09:24	
Dibromofluoromethane (S)	%	95	68-130	10/12/17 09:24	
Toluene-d8 (S)	%	94	68-149	10/12/17 09:24	

LABORATORY CONTROL SAMPLE: 1589147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2340	94	61-122	
1,1,1,2-Tetrachloroethane	ug/kg	2500	2460	98	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2550	102	70-130	
1,1-Dichloroethane	ug/kg	2500	2270	91	63-124	
1,1-Dichloroethene	ug/kg	2500	2340	94	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	2050	82	78-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1950	78	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2490	100	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2360	94	70-130	
1,2-Dichloroethane	ug/kg	2500	2250	90	56-135	
1,2-Dichloropropane	ug/kg	2500	2280	91	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2330	93	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2420	97	70-130	
Benzene	ug/kg	2500	2450	98	66-130	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

LABORATORY CONTROL SAMPLE: 1589147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/kg	2500	2370	95	62-135	
Bromoform	ug/kg	2500	2070	83	68-130	
Bromomethane	ug/kg	2500	2410	96	29-137	
Carbon tetrachloride	ug/kg	2500	2460	98	57-130	
Chlorobenzene	ug/kg	2500	2380	95	70-130	
Chloroethane	ug/kg	2500	2430	97	36-144	
Chloroform	ug/kg	2500	2380	95	69-115	
Chloromethane	ug/kg	2500	1680	67	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2360	94	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2060	82	70-130	
Dibromochloromethane	ug/kg	2500	2170	87	70-130	
Dichlorodifluoromethane	ug/kg	2500	1480	59	10-99	
Ethylbenzene	ug/kg	2500	2400	96	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2420	97	70-130	
m&p-Xylene	ug/kg	5000	5020	100	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2340	93	63-134	
Methylene Chloride	ug/kg	2500	2370	95	56-123	
o-Xylene	ug/kg	2500	2500	100	70-130	
Styrene	ug/kg	2500	2610	104	70-130	
Tetrachloroethene	ug/kg	2500	2400	96	70-131	
Toluene	ug/kg	2500	2480	99	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2510	101	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2080	83	68-130	
Trichloroethene	ug/kg	2500	2400	96	70-130	
Trichlorofluoromethane	ug/kg	2500	2360	95	37-149	
Vinyl chloride	ug/kg	2500	1890	76	43-128	
Xylene (Total)	ug/kg	7500	7510	100	70-130	
4-Bromofluorobenzene (S)	%			93	58-141	
Dibromofluoromethane (S)	%			100	68-130	
Toluene-d8 (S)	%			92	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589148 1589149

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40158381004 Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1-Trichloroethane	ug/kg	<25.0	1370	1370	1110	1170	81	85	57-123	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1370	1370	1410	1350	103	99	73-135	4	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1370	1370	1370	1340	100	98	70-130	2	20	
1,1-Dichloroethane	ug/kg	<25.0	1370	1370	1140	1160	83	85	63-124	2	20	
1,1-Dichloroethene	ug/kg	<25.0	1370	1370	1030	1080	75	79	48-117	5	23	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1370	1370	1220	1140	89	83	78-145	7	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1370	1370	1110	1060	81	77	38-168	5	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1370	1370	1330	1280	97	94	70-130	4	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1370	1370	1360	1300	99	95	70-130	5	20	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1589148	1589149									
Parameter	Units	40158381004	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		
1,2-Dichloroethane	ug/kg	<25.0	1370	1370	1190	1180	87	86	56-145	1	20	
1,2-Dichloropropane	ug/kg	<25.0	1370	1370	1190	1250	87	92	77-123	6	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1370	1370	1290	1250	95	91	70-130	4	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1370	1370	1380	1320	101	97	70-130	4	20	
Benzene	ug/kg	<25.0	1370	1370	1240	1280	90	94	65-130	4	20	
Bromodichloromethane	ug/kg	<25.0	1370	1370	1180	1190	86	87	59-141	1	20	
Bromoform	ug/kg	<25.0	1370	1370	1230	1180	90	86	59-141	4	20	
Bromomethane	ug/kg	<69.9	1370	1370	1180	1160	86	85	28-139	1	20	
Carbon tetrachloride	ug/kg	<25.0	1370	1370	1030	1130	75	82	50-130	9	20	
Chlorobenzene	ug/kg	<25.0	1370	1370	1290	1250	94	91	70-130	3	20	
Chloroethane	ug/kg	<67.0	1370	1370	1100	1120	80	82	36-144	2	20	
Chloroform	ug/kg	<46.4	1370	1370	1240	1240	90	90	68-122	0	20	
Chloromethane	ug/kg	<25.0	1370	1370	815	853	60	62	30-126	4	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1370	1370	1210	1220	89	89	63-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1370	1370	1100	1080	80	79	70-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1370	1370	1220	1190	89	87	66-136	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1370	1370	609	684	44	50	10-99	12	33	
Ethylbenzene	ug/kg	<25.0	1370	1370	1180	1170	86	85	80-122	1	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1370	1370	1190	1190	87	87	70-130	0	20	
m&p-Xylene	ug/kg	<50.0	2740	2740	2540	2540	93	93	70-130	0	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1370	1370	1260	1190	92	87	63-134	6	20	
Methylene Chloride	ug/kg	<25.0	1370	1370	1250	1240	90	89	56-127	1	20	
o-Xylene	ug/kg	<25.0	1370	1370	1240	1210	90	89	70-130	2	20	
Styrene	ug/kg	<25.0	1370	1370	1340	1320	98	96	70-130	2	20	
Tetrachloroethene	ug/kg	<25.0	1370	1370	1170	1160	85	85	70-131	0	20	
Toluene	ug/kg	<25.0	1370	1370	1260	1250	92	91	80-120	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1370	1370	1180	1260	86	92	60-130	7	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1370	1370	1130	1090	82	80	68-130	3	20	
Trichloroethene	ug/kg	<25.0	1370	1370	1210	1240	88	90	70-130	3	20	
Trichlorofluoromethane	ug/kg	<25.0	1370	1370	1010	1130	74	82	37-149	11	24	
Vinyl chloride	ug/kg	<25.0	1370	1370	776	818	57	60	39-128	5	20	
Xylene (Total)	ug/kg	<75.0	4110	4110	3780	3760	92	92	70-130	1	20	
4-Bromofluorobenzene (S)	%						100	98	58-141			
Dibromofluoromethane (S)	%						102	103	68-130			
Toluene-d8 (S)	%						102	100	68-149			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

QC Batch: 270424 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40158427001, 40158427011, 40158427012, 40158427013

METHOD BLANK: 1589223 Matrix: Solid
Associated Lab Samples: 40158427001, 40158427011, 40158427012, 40158427013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	10/12/17 16:58	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	10/12/17 16:58	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	10/12/17 16:58	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	10/12/17 16:58	
1,1-Dichloroethane	ug/kg	<17.6	50.0	10/12/17 16:58	
1,1-Dichloroethene	ug/kg	<17.6	50.0	10/12/17 16:58	
1,1-Dichloropropene	ug/kg	<14.0	50.0	10/12/17 16:58	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	10/12/17 16:58	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	10/12/17 16:58	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	10/12/17 16:58	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/12/17 16:58	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	10/12/17 16:58	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	10/12/17 16:58	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	10/12/17 16:58	
1,2-Dichloroethane	ug/kg	<15.0	50.0	10/12/17 16:58	
1,2-Dichloropropane	ug/kg	<16.8	50.0	10/12/17 16:58	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/12/17 16:58	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	10/12/17 16:58	
1,3-Dichloropropane	ug/kg	<12.0	50.0	10/12/17 16:58	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	10/12/17 16:58	
2,2-Dichloropropane	ug/kg	<12.6	50.0	10/12/17 16:58	
2-Chlorotoluene	ug/kg	<15.8	50.0	10/12/17 16:58	
4-Chlorotoluene	ug/kg	<13.0	50.0	10/12/17 16:58	
Benzene	ug/kg	<9.2	20.0	10/12/17 16:58	
Bromobenzene	ug/kg	<20.6	50.0	10/12/17 16:58	
Bromochloromethane	ug/kg	<21.4	50.0	10/12/17 16:58	
Bromodichloromethane	ug/kg	<9.8	50.0	10/12/17 16:58	
Bromoform	ug/kg	<19.8	50.0	10/12/17 16:58	
Bromomethane	ug/kg	<69.9	250	10/12/17 16:58	
Carbon tetrachloride	ug/kg	<12.1	50.0	10/12/17 16:58	
Chlorobenzene	ug/kg	<14.8	50.0	10/12/17 16:58	
Chloroethane	ug/kg	<67.0	250	10/12/17 16:58	
Chloroform	ug/kg	<46.4	250	10/12/17 16:58	
Chloromethane	ug/kg	<20.4	50.0	10/12/17 16:58	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	10/12/17 16:58	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	10/12/17 16:58	
Dibromochloromethane	ug/kg	<17.9	50.0	10/12/17 16:58	
Dibromomethane	ug/kg	<19.3	50.0	10/12/17 16:58	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	10/12/17 16:58	
Diisopropyl ether	ug/kg	<17.7	50.0	10/12/17 16:58	
Ethylbenzene	ug/kg	<12.4	50.0	10/12/17 16:58	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

METHOD BLANK: 1589223 Matrix: Solid
Associated Lab Samples: 40158427001, 40158427011, 40158427012, 40158427013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	10/12/17 16:58	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	10/12/17 16:58	
m&p-Xylene	ug/kg	<34.4	100	10/12/17 16:58	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/12/17 16:58	
Methylene Chloride	ug/kg	<16.2	50.0	10/12/17 16:58	
n-Butylbenzene	ug/kg	<10.5	50.0	10/12/17 16:58	
n-Propylbenzene	ug/kg	<11.6	50.0	10/12/17 16:58	
Naphthalene	ug/kg	<40.0	250	10/12/17 16:58	
o-Xylene	ug/kg	<14.0	50.0	10/12/17 16:58	
p-Isopropyltoluene	ug/kg	<12.0	50.0	10/12/17 16:58	
sec-Butylbenzene	ug/kg	<11.9	50.0	10/12/17 16:58	
Styrene	ug/kg	<9.0	50.0	10/12/17 16:58	
tert-Butylbenzene	ug/kg	<9.5	50.0	10/12/17 16:58	
Tetrachloroethene	ug/kg	<12.9	50.0	10/12/17 16:58	
Toluene	ug/kg	<11.2	50.0	10/12/17 16:58	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	10/12/17 16:58	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	10/12/17 16:58	
Trichloroethene	ug/kg	<23.6	50.0	10/12/17 16:58	
Trichlorofluoromethane	ug/kg	<24.7	50.0	10/12/17 16:58	
Vinyl chloride	ug/kg	<21.1	50.0	10/12/17 16:58	
Xylene (Total)	ug/kg	<48.4	150	10/12/17 16:58	
4-Bromofluorobenzene (S)	%	78	58-141	10/12/17 16:58	
Dibromofluoromethane (S)	%	90	68-130	10/12/17 16:58	
Toluene-d8 (S)	%	90	68-149	10/12/17 16:58	

LABORATORY CONTROL SAMPLE: 1589224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2330	93	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2380	95	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2390	96	70-130	
1,1-Dichloroethane	ug/kg	2500	2260	90	63-124	
1,1-Dichloroethene	ug/kg	2500	2310	92	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	2020	81	78-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1870	75	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2460	98	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2250	90	70-130	
1,2-Dichloroethane	ug/kg	2500	2220	89	56-135	
1,2-Dichloropropane	ug/kg	2500	2220	89	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2290	92	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2330	93	70-130	
Benzene	ug/kg	2500	2430	97	66-130	
Bromodichloromethane	ug/kg	2500	2220	89	62-135	
Bromoform	ug/kg	2500	1920	77	68-130	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

LABORATORY CONTROL SAMPLE: 1589224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2380	95	29-137	
Carbon tetrachloride	ug/kg	2500	2220	89	57-130	
Chlorobenzene	ug/kg	2500	2340	94	70-130	
Chloroethane	ug/kg	2500	2390	96	36-144	
Chloroform	ug/kg	2500	2340	94	69-115	
Chloromethane	ug/kg	2500	1710	68	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2360	95	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	1980	79	70-130	
Dibromochloromethane	ug/kg	2500	2090	84	70-130	
Dichlorodifluoromethane	ug/kg	2500	1330	53	10-99	
Ethylbenzene	ug/kg	2500	2260	90	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2350	94	70-130	
m&p-Xylene	ug/kg	5000	4760	95	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2360	95	63-134	
Methylene Chloride	ug/kg	2500	2310	92	56-123	
o-Xylene	ug/kg	2500	2400	96	70-130	
Styrene	ug/kg	2500	2470	99	70-130	
Tetrachloroethene	ug/kg	2500	2210	89	70-131	
Toluene	ug/kg	2500	2390	96	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2550	102	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	1970	79	68-130	
Trichloroethene	ug/kg	2500	2350	94	70-130	
Trichlorofluoromethane	ug/kg	2500	2220	89	37-149	
Vinyl chloride	ug/kg	2500	1930	77	43-128	
Xylene (Total)	ug/kg	7500	7160	95	70-130	
4-Bromofluorobenzene (S)	%			88	58-141	
Dibromofluoromethane (S)	%			92	68-130	
Toluene-d8 (S)	%			87	68-149	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

QC Batch: 270330

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 40158427014, 40158427015, 40158427016, 40158427017, 40158427018, 40158427019

METHOD BLANK: 1588806

Matrix: Water

Associated Lab Samples: 40158427014, 40158427015, 40158427016, 40158427017, 40158427018, 40158427019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	10/12/17 08:49	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/12/17 08:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	10/12/17 08:49	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/12/17 08:49	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/12/17 08:49	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/12/17 08:49	
1,1-Dichloropropene	ug/L	<0.44	1.0	10/12/17 08:49	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	10/12/17 08:49	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	10/12/17 08:49	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	10/12/17 08:49	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	10/12/17 08:49	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/12/17 08:49	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/12/17 08:49	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/12/17 08:49	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/12/17 08:49	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/12/17 08:49	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	10/12/17 08:49	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/12/17 08:49	
1,3-Dichloropropane	ug/L	<0.50	1.0	10/12/17 08:49	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/12/17 08:49	
2,2-Dichloropropane	ug/L	<0.48	1.0	10/12/17 08:49	
2-Chlorotoluene	ug/L	<0.50	1.0	10/12/17 08:49	
4-Chlorotoluene	ug/L	<0.21	1.0	10/12/17 08:49	
Benzene	ug/L	<0.50	1.0	10/12/17 08:49	
Bromobenzene	ug/L	<0.23	1.0	10/12/17 08:49	
Bromochloromethane	ug/L	<0.34	1.0	10/12/17 08:49	
Bromodichloromethane	ug/L	<0.50	1.0	10/12/17 08:49	
Bromoform	ug/L	<0.50	1.0	10/12/17 08:49	
Bromomethane	ug/L	<2.4	5.0	10/12/17 08:49	
Carbon tetrachloride	ug/L	<0.50	1.0	10/12/17 08:49	
Chlorobenzene	ug/L	<0.50	1.0	10/12/17 08:49	
Chloroethane	ug/L	<0.37	1.0	10/12/17 08:49	
Chloroform	ug/L	<2.5	5.0	10/12/17 08:49	
Chloromethane	ug/L	<0.50	1.0	10/12/17 08:49	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/12/17 08:49	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/12/17 08:49	
Dibromochloromethane	ug/L	<0.50	1.0	10/12/17 08:49	
Dibromomethane	ug/L	<0.43	1.0	10/12/17 08:49	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/12/17 08:49	
Diisopropyl ether	ug/L	<0.50	1.0	10/12/17 08:49	
Ethylbenzene	ug/L	<0.50	1.0	10/12/17 08:49	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

METHOD BLANK: 1588806

Matrix: Water

Associated Lab Samples: 40158427014, 40158427015, 40158427016, 40158427017, 40158427018, 40158427019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	10/12/17 08:49	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	10/12/17 08:49	
m&p-Xylene	ug/L	<1.0	2.0	10/12/17 08:49	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/12/17 08:49	
Methylene Chloride	ug/L	0.38J	1.0	10/12/17 08:49	
n-Butylbenzene	ug/L	<0.50	1.0	10/12/17 08:49	
n-Propylbenzene	ug/L	<0.50	1.0	10/12/17 08:49	
Naphthalene	ug/L	<2.5	5.0	10/12/17 08:49	
o-Xylene	ug/L	<0.50	1.0	10/12/17 08:49	
p-Isopropyltoluene	ug/L	<0.50	1.0	10/12/17 08:49	
sec-Butylbenzene	ug/L	<2.2	5.0	10/12/17 08:49	
Styrene	ug/L	<0.50	1.0	10/12/17 08:49	
tert-Butylbenzene	ug/L	<0.18	1.0	10/12/17 08:49	
Tetrachloroethene	ug/L	<0.50	1.0	10/12/17 08:49	
Toluene	ug/L	<0.50	1.0	10/12/17 08:49	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/12/17 08:49	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/12/17 08:49	
Trichloroethene	ug/L	<0.33	1.0	10/12/17 08:49	
Trichlorofluoromethane	ug/L	<0.18	1.0	10/12/17 08:49	
Vinyl chloride	ug/L	<0.18	1.0	10/12/17 08:49	
Xylene (Total)	ug/L	<1.5	3.0	10/12/17 08:49	
4-Bromofluorobenzene (S)	%	83	61-130	10/12/17 08:49	
Dibromofluoromethane (S)	%	91	67-130	10/12/17 08:49	
Toluene-d8 (S)	%	94	70-130	10/12/17 08:49	

LABORATORY CONTROL SAMPLE: 1588807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.0	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	56.9	114	70-130	
1,1,2-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	51.3	103	71-132	
1,1-Dichloroethene	ug/L	50	57.5	115	75-130	
1,2,4-Trichlorobenzene	ug/L	50	61.6	123	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.3	93	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	56.8	114	70-130	
1,2-Dichlorobenzene	ug/L	50	59.0	118	70-130	
1,2-Dichloroethane	ug/L	50	47.8	96	70-131	
1,2-Dichloropropane	ug/L	50	45.5	91	80-120	
1,3-Dichlorobenzene	ug/L	50	57.4	115	70-130	
1,4-Dichlorobenzene	ug/L	50	57.9	116	70-130	
Benzene	ug/L	50	47.3	95	73-145	
Bromodichloromethane	ug/L	50	51.9	104	70-130	
Bromoform	ug/L	50	56.4	113	67-130	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

LABORATORY CONTROL SAMPLE: 1588807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	32.0	64	26-128	
Carbon tetrachloride	ug/L	50	45.2	90	70-133	
Chlorobenzene	ug/L	50	57.5	115	70-130	
Chloroethane	ug/L	50	40.4	81	58-120	
Chloroform	ug/L	50	45.9	92	80-121	
Chloromethane	ug/L	50	30.2	60	40-127	
cis-1,2-Dichloroethene	ug/L	50	48.7	97	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.2	98	70-130	
Dibromochloromethane	ug/L	50	50.3	101	70-130	
Dichlorodifluoromethane	ug/L	50	14.9	30	20-135	
Ethylbenzene	ug/L	50	59.1	118	87-129	
Isopropylbenzene (Cumene)	ug/L	50	65.1	130	70-130	
m&p-Xylene	ug/L	100	133	133	70-130	L1
Methyl-tert-butyl ether	ug/L	50	54.2	108	66-143	
Methylene Chloride	ug/L	50	58.9	118	70-130	
o-Xylene	ug/L	50	62.8	126	70-130	
Styrene	ug/L	50	67.3	135	70-130	L1
Tetrachloroethene	ug/L	50	58.3	117	70-130	
Toluene	ug/L	50	54.2	108	82-130	
trans-1,2-Dichloroethene	ug/L	50	64.6	129	75-132	
trans-1,3-Dichloropropene	ug/L	50	42.8	86	70-130	
Trichloroethene	ug/L	50	53.7	107	70-130	
Trichlorofluoromethane	ug/L	50	53.3	107	76-133	
Vinyl chloride	ug/L	50	31.3	63	57-136	
Xylene (Total)	ug/L	150	195	130	70-130	LS
4-Bromofluorobenzene (S)	%			101	61-130	
Dibromofluoromethane (S)	%			93	67-130	
Toluene-d8 (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1588810 1588811

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40158432005 Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.6	50.9	103	102	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	56.6	50.6	113	101	70-130	11	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	52.5	49.3	105	99	70-130	6	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	53.3	51.7	107	103	71-133	3	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	63.2	61.6	126	123	75-136	2	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	62.0	57.0	124	114	70-130	8	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	45.8	43.1	92	86	63-123	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	57.4	55.7	115	111	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	60.2	55.3	120	111	70-130	8	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	49.1	47.2	98	94	70-131	4	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	48.6	45.5	97	91	80-120	7	20	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1588810		1588811		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40158432005 Result	MS Spike Conc.	MSD Spike Conc.									
1,3-Dichlorobenzene	ug/L	<0.50	50	50	58.7	54.5	117	109	70-130	8	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	58.2	54.5	116	109	70-130	7	20		
Benzene	ug/L	<0.50	50	50	48.7	47.7	97	95	73-145	2	20		
Bromodichloromethane	ug/L	<0.50	50	50	53.0	51.1	106	102	70-130	4	20		
Bromoform	ug/L	<0.50	50	50	57.4	54.3	115	109	67-130	5	20		
Bromomethane	ug/L	<2.4	50	50	39.0	39.1	78	78	26-129	0	20		
Carbon tetrachloride	ug/L	<0.50	50	50	47.4	47.2	95	94	70-134	0	20		
Chlorobenzene	ug/L	<0.50	50	50	58.5	56.2	117	112	70-130	4	20		
Chloroethane	ug/L	<0.37	50	50	45.6	44.4	91	89	58-120	3	20		
Chloroform	ug/L	<2.5	50	50	47.8	53.1	96	106	80-121	11	20		
Chloromethane	ug/L	<0.50	50	50	42.5	41.5	85	83	40-128	2	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	62.9	60.7	126	121	70-130	4	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	50.9	49.7	102	99	70-130	2	20		
Dibromochloromethane	ug/L	<0.50	50	50	52.2	50.6	104	101	70-130	3	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	30.8	31.0	62	62	20-146	1	20		
Ethylbenzene	ug/L	<0.50	50	50	59.4	57.6	119	115	87-129	3	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	66.0	63.3	132	127	70-130	4	20	M1	
m&p-Xylene	ug/L	<1.0	100	100	134	128	134	128	70-130	4	20	MO	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	55.6	53.3	111	107	66-143	4	20		
Methylene Chloride	ug/L	0.25J	50	50	60.8	60.4	121	120	70-130	1	20		
o-Xylene	ug/L	<0.50	50	50	63.4	61.6	127	123	70-130	3	20		
Styrene	ug/L	<0.50	50	50	69.3	65.8	139	132	70-130	5	20	MO	
Tetrachloroethene	ug/L	<0.50	50	50	58.5	56.5	117	113	70-130	4	20		
Toluene	ug/L	<0.50	50	50	54.7	53.7	109	107	82-131	2	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	67.6	66.0	135	132	75-135	2	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	44.7	42.2	89	84	70-130	6	20		
Trichloroethene	ug/L	<0.33	50	50	54.3	53.3	109	107	70-130	2	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	60.1	57.1	120	114	76-150	5	20		
Vinyl chloride	ug/L	<0.18	50	50	40.5	39.4	81	79	56-143	3	20		
Xylene (Total)	ug/L	<1.5	150	150	197	190	131	127	70-130	4	20	MS	
4-Bromofluorobenzene (S)	%						98	98	61-130				
Dibromofluoromethane (S)	%						92	95	67-130				
Toluene-d8 (S)	%						91	93	70-130				

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

QC Batch: 270485 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40158427001, 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427008, 40158427009, 40158427010, 40158427011, 40158427012, 40158427013

METHOD BLANK: 1589777 Matrix: Solid
Associated Lab Samples: 40158427001, 40158427002, 40158427003, 40158427004, 40158427005, 40158427006, 40158427008, 40158427009, 40158427010, 40158427011, 40158427012, 40158427013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	10/13/17 12:05	
2-Methylnaphthalene	ug/kg	<5.0	16.7	10/13/17 12:05	
Acenaphthene	ug/kg	<3.9	12.9	10/13/17 12:05	
Acenaphthylene	ug/kg	<3.3	11.0	10/13/17 12:05	
Anthracene	ug/kg	<5.7	19.0	10/13/17 12:05	
Benzo(a)anthracene	ug/kg	<3.2	10.6	10/13/17 12:05	
Benzo(a)pyrene	ug/kg	<2.5	8.4	10/13/17 12:05	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	10/13/17 12:05	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	10/13/17 12:05	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	10/13/17 12:05	
Chrysene	ug/kg	<3.4	11.2	10/13/17 12:05	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	10/13/17 12:05	
Fluoranthene	ug/kg	<5.2	17.4	10/13/17 12:05	
Fluorene	ug/kg	<4.1	13.8	10/13/17 12:05	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	10/13/17 12:05	
Naphthalene	ug/kg	<8.4	28.1	10/13/17 12:05	
Phenanthrene	ug/kg	<11.7	38.9	10/13/17 12:05	
Pyrene	ug/kg	<4.5	15.0	10/13/17 12:05	
2-Fluorobiphenyl (S)	%	78	23-106	10/13/17 12:05	
Terphenyl-d14 (S)	%	80	29-106	10/13/17 12:05	

LABORATORY CONTROL SAMPLE: 1589778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	254	76	49-102	
2-Methylnaphthalene	ug/kg	333	245	74	47-91	
Acenaphthene	ug/kg	333	258	78	52-97	
Acenaphthylene	ug/kg	333	257	77	49-97	
Anthracene	ug/kg	333	259	78	62-101	
Benzo(a)anthracene	ug/kg	333	254	76	53-95	
Benzo(a)pyrene	ug/kg	333	262	79	57-108	
Benzo(b)fluoranthene	ug/kg	333	265	80	53-113	
Benzo(g,h,i)perylene	ug/kg	333	248	74	43-114	
Benzo(k)fluoranthene	ug/kg	333	263	79	66-116	
Chrysene	ug/kg	333	258	77	64-109	
Dibenz(a,h)anthracene	ug/kg	333	256	77	50-105	
Fluoranthene	ug/kg	333	255	77	58-107	
Fluorene	ug/kg	333	266	80	52-99	

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

LABORATORY CONTROL SAMPLE: 1589778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	259	78	51-113	
Naphthalene	ug/kg	333	238	71	50-91	
Phenanthrene	ug/kg	333	256	77	57-101	
Pyrene	ug/kg	333	256	77	50-102	
2-Fluorobiphenyl (S)	%			84	23-106	
Terphenyl-d14 (S)	%			85	29-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589779 1589780

Parameter	Units	40158339003		MS		MSD		% Rec	% Rec	% Rec Limits	Max RPD	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1-Methylnaphthalene	ug/kg	<15.5	386	386	247	269	63	68	37-102	8	29		
2-Methylnaphthalene	ug/kg	<19.4	386	386	244	260	61	65	44-91	6	36		
Acenaphthene	ug/kg	<0.015	386	386	238	265	61	69	46-97	11	26		
Acenaphthylene	ug/kg	<0.013	386	386	240	266	62	69	47-97	10	29		
Anthracene	ug/kg	<0.022	386	386	225	261	58	68	50-101	15	28		
Benzo(a)anthracene	ug/kg	<0.012	386	386	221	251	57	65	48-95	13	28		
Benzo(a)pyrene	ug/kg	<0.0097	386	386	222	256	57	66	47-108	14	36		
Benzo(b)fluoranthene	ug/kg	<0.011	386	386	219	251	57	65	42-113	14	34		
Benzo(g,h,i)perylene	ug/kg	<0.0079	386	386	210	240	54	62	18-114	14	30		
Benzo(k)fluoranthene	ug/kg	<0.0097	386	386	227	266	59	69	50-116	16	27		
Chrysene	ug/kg	<0.013	386	386	218	252	56	65	55-109	15	28		
Dibenz(a,h)anthracene	ug/kg	<0.0086	386	386	216	250	56	65	39-105	15	29		
Fluoranthene	ug/kg	<0.020	386	386	222	255	57	65	41-107	14	28		
Fluorene	ug/kg	<0.016	386	386	241	275	62	71	48-99	13	28		
Indeno(1,2,3-cd)pyrene	ug/kg	<0.0085	386	386	217	251	56	65	27-113	15	30		
Naphthalene	ug/kg	0.10	386	386	241	257	35	40	40-91	6	37	M1	
Phenanthrene	ug/kg	<0.045	386	386	226	259	57	66	46-101	14	40		
Pyrene	ug/kg	<0.017	386	386	224	256	57	66	50-102	13	31		
2-Fluorobiphenyl (S)	%						60	69	23-106				
Terphenyl-d14 (S)	%						57	65	29-106				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

QC Batch: 270350 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40158427014, 40158427015, 40158427016, 40158427017, 40158427018, 40158427019

METHOD BLANK: 1588883 Matrix: Water
Associated Lab Samples: 40158427014, 40158427015, 40158427016, 40158427017, 40158427018, 40158427019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	10/13/17 12:27	
2-Methylnaphthalene	ug/L	<0.0049	0.024	10/13/17 12:27	
Acenaphthene	ug/L	<0.0061	0.030	10/13/17 12:27	
Acenaphthylene	ug/L	<0.0050	0.025	10/13/17 12:27	
Anthracene	ug/L	<0.010	0.052	10/13/17 12:27	
Benzo(a)anthracene	ug/L	<0.0076	0.038	10/13/17 12:27	
Benzo(a)pyrene	ug/L	<0.011	0.053	10/13/17 12:27	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	10/13/17 12:27	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	10/13/17 12:27	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	10/13/17 12:27	
Chrysene	ug/L	<0.013	0.065	10/13/17 12:27	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	10/13/17 12:27	
Fluoranthene	ug/L	<0.011	0.053	10/13/17 12:27	
Fluorene	ug/L	<0.0080	0.040	10/13/17 12:27	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	10/13/17 12:27	
Naphthalene	ug/L	<0.018	0.092	10/13/17 12:27	
Phenanthrene	ug/L	<0.014	0.069	10/13/17 12:27	
Pyrene	ug/L	<0.0076	0.038	10/13/17 12:27	
Total PAHs	ug/L	0.0078		10/13/17 12:27	
2-Fluorobiphenyl (S)	%	53	35-84	10/13/17 12:27	
Terphenyl-d14 (S)	%	84	10-129	10/13/17 12:27	

LABORATORY CONTROL SAMPLE: 1588884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	74	39-83	
2-Methylnaphthalene	ug/L	2	1.5	73	38-86	
Acenaphthene	ug/L	2	1.3	66	35-85	
Acenaphthylene	ug/L	2	1.3	66	31-88	
Anthracene	ug/L	2	1.6	79	47-104	
Benzo(a)anthracene	ug/L	2	1.5	75	36-105	
Benzo(a)pyrene	ug/L	2	1.7	84	69-117	
Benzo(b)fluoranthene	ug/L	2	1.6	80	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.98	49	13-86	
Benzo(k)fluoranthene	ug/L	2	1.8	92	63-128	
Chrysene	ug/L	2	2.2	112	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.73	36	10-87	
Fluoranthene	ug/L	2	1.9	96	57-103	
Fluorene	ug/L	2	1.4	71	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	74	40-111	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

LABORATORY CONTROL SAMPLE: 1588884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.3	65	39-82	
Phenanthrene	ug/L	2	1.6	82	46-96	
Pyrene	ug/L	2	2.0	99	57-110	
Total PAHs	ug/L		27.5			
2-Fluorobiphenyl (S)	%			63	35-84	
Terphenyl-d14 (S)	%			93	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1588885 1588886

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40158407016 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	ug/L	4.7	2.1	2	6.1	65	90	27-86	7	29	M1
2-Methylnaphthalene	ug/L	0.033	2.1	2	1.6	74	83	30-86	8	35	
Acenaphthene	ug/L	0.49	2.1	2	1.8	61	66	28-85	3	29	
Acenaphthylene	ug/L	0.057	2.1	2	1.4	64	68	27-88	2	29	
Anthracene	ug/L	0.024J	2.1	2	1.6	74	75	38-104	3	35	
Benzo(a)anthracene	ug/L	<0.0079	2.1	2	1.5	70	71	10-105	2	28	
Benzo(a)pyrene	ug/L	<0.011	2.1	2	1.4	66	67	10-130	2	26	
Benzo(b)fluoranthene	ug/L	<0.0060	2.1	2	1.4	65	67	10-115	2	25	
Benzo(g,h,i)perylene	ug/L	<0.0071	2.1	2	0.63	29	29	10-87	4	42	
Benzo(k)fluoranthene	ug/L	<0.0079	2.1	2	1.3	61	62	10-133	3	25	
Chrysene	ug/L	<0.014	2.1	2	1.7	80	80	17-150	5	24	
Dibenz(a,h)anthracene	ug/L	<0.011	2.1	2	0.50	23	23	10-89	6	49	
Fluoranthene	ug/L	0.036J	2.1	2	1.8	81	81	41-103	4	32	
Fluorene	ug/L	0.34	2.1	2	1.8	67	71	32-85	2	28	
Indeno(1,2,3-cd)pyrene	ug/L	<0.019	2.1	2	1.0	47	48	10-111	3	37	
Naphthalene	ug/L	0.14	2.1	2	1.5	63	66	23-88	1	28	
Phenanthrene	ug/L	0.017J	2.1	2	1.6	75	75	33-96	4	25	
Pyrene	ug/L	0.044	2.1	2	1.8	83	83	38-110	5	28	
Total PAHs	ug/L	5.9			30.3	30.4				0	
2-Fluorobiphenyl (S)	%					59	62	35-84			
Terphenyl-d14 (S)	%					74	74	10-129			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

QC Batch: 270684

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40158427001, 40158427002, 40158427003, 40158427004

SAMPLE DUPLICATE: 1591555

Parameter	Units	40157957019 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.3	7.9	8	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

QC Batch: 270737

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40158427006, 40158427008

SAMPLE DUPLICATE: 1591681

Parameter	Units	40158509002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	<0.10	<0.10		10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above LOD.
J - Estimated concentration at or above the LOD and below the LOQ.
LOD - Limit of Detection adjusted for dilution factor and percent moisture.
LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.
C4 Sample container did not meet EPA or method requirements.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
LS Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
W Non-detect results are reported on a wet weight basis.
pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21-43145B MU PHASE II

Pace Project No.: 40158427

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158427001	B-2 (3-4')	EPA 3050	270418	EPA 6010	270576
40158427002	B-2 (12-13')	EPA 3050	270418	EPA 6010	270576
40158427003	B-1 (3-4')	EPA 3050	270418	EPA 6010	270576
40158427004	B-1 (11.5-12.5')	EPA 3050	270418	EPA 6010	270576
40158427005	B-4 (2-3')	EPA 3050	270418	EPA 6010	270576
40158427006	B-4 (10-11')	EPA 3050	270418	EPA 6010	270576
40158427008	B-3 (3-4')	EPA 3050	270418	EPA 6010	270576
40158427009	B-3 (11-12')	EPA 3050	270418	EPA 6010	270576
40158427010	B-5 (12.5-13.5')	EPA 3050	270418	EPA 6010	270576
40158427011	B-5 (14-15')	EPA 3050	270418	EPA 6010	270576
40158427012	B-6 (3-4')	EPA 3050	270418	EPA 6010	270576
40158427013	B-6 (11-12')	EPA 3050	270418	EPA 6010	270576
40158427014	TW-2	EPA 3010	270342	EPA 6010	270455
40158427015	TW-1	EPA 3010	270342	EPA 6010	270455
40158427016	TW-4	EPA 3010	270342	EPA 6010	270455
40158427017	TW-3	EPA 3010	270342	EPA 6010	270455
40158427018	TW-5	EPA 3010	270342	EPA 6010	270455
40158427019	TW-6	EPA 3010	270342	EPA 6010	270455
40158427014	TW-2	EPA 7470	270522	EPA 7470	270564
40158427015	TW-1	EPA 7470	270857	EPA 7470	270967
40158427016	TW-4	EPA 7470	270857	EPA 7470	270967
40158427017	TW-3	EPA 7470	270522	EPA 7470	270564
40158427018	TW-5	EPA 7470	270857	EPA 7470	270967
40158427019	TW-6	EPA 7470	270857	EPA 7470	270967
40158427001	B-2 (3-4')	EPA 7471	270711	EPA 7471	270796
40158427002	B-2 (12-13')	EPA 7471	270711	EPA 7471	270796
40158427003	B-1 (3-4')	EPA 7471	270711	EPA 7471	270796
40158427004	B-1 (11.5-12.5')	EPA 7471	270711	EPA 7471	270796
40158427005	B-4 (2-3')	EPA 7471	270711	EPA 7471	270796
40158427006	B-4 (10-11')	EPA 7471	270711	EPA 7471	270796
40158427008	B-3 (3-4')	EPA 7471	270711	EPA 7471	270796
40158427009	B-3 (11-12')	EPA 7471	270711	EPA 7471	270796
40158427010	B-5 (12.5-13.5')	EPA 7471	270711	EPA 7471	270796
40158427011	B-5 (14-15')	EPA 7471	270712	EPA 7471	270797
40158427012	B-6 (3-4')	EPA 7471	270712	EPA 7471	270797
40158427013	B-6 (11-12')	EPA 7471	270712	EPA 7471	270797
40158427001	B-2 (3-4')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427002	B-2 (12-13')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427003	B-1 (3-4')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427004	B-1 (11.5-12.5')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427005	B-4 (2-3')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427006	B-4 (10-11')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427008	B-3 (3-4')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427009	B-3 (11-12')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427010	B-5 (12.5-13.5')	EPA 3546	270485	EPA 8270 by SIM	270534

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21-43145B MU PHASE II
Pace Project No.: 40158427

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158427011	B-5 (14-15')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427012	B-6 (3-4')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427013	B-6 (11-12')	EPA 3546	270485	EPA 8270 by SIM	270534
40158427014	TW-2	EPA 3510	270350	EPA 8270 by HVI	270442
40158427015	TW-1	EPA 3510	270350	EPA 8270 by HVI	270442
40158427016	TW-4	EPA 3510	270350	EPA 8270 by HVI	270442
40158427017	TW-3	EPA 3510	270350	EPA 8270 by HVI	270442
40158427018	TW-5	EPA 3510	270350	EPA 8270 by HVI	270442
40158427019	TW-6	EPA 3510	270350	EPA 8270 by HVI	270442
40158427001	B-2 (3-4')	EPA 5035/5030B	270424	EPA 8260	270427
40158427002	B-2 (12-13')	EPA 5035/5030B	270402	EPA 8260	270403
40158427003	B-1 (3-4')	EPA 5035/5030B	270402	EPA 8260	270403
40158427004	B-1 (11.5-12.5')	EPA 5035/5030B	270402	EPA 8260	270403
40158427005	B-4 (2-3')	EPA 5035/5030B	270402	EPA 8260	270403
40158427006	B-4 (10-11')	EPA 5035/5030B	270402	EPA 8260	270403
40158427007	TRIP BLANK	EPA 5035/5030B	270402	EPA 8260	270403
40158427008	B-3 (3-4')	EPA 5035/5030B	270402	EPA 8260	270403
40158427009	B-3 (11-12')	EPA 5035/5030B	270402	EPA 8260	270403
40158427010	B-5 (12.5-13.5')	EPA 5035/5030B	270402	EPA 8260	270403
40158427011	B-5 (14-15')	EPA 5035/5030B	270424	EPA 8260	270427
40158427012	B-6 (3-4')	EPA 5035/5030B	270424	EPA 8260	270427
40158427013	B-6 (11-12')	EPA 5035/5030B	270424	EPA 8260	270427
40158427014	TW-2	EPA 8260	270330		
40158427015	TW-1	EPA 8260	270330		
40158427016	TW-4	EPA 8260	270330		
40158427017	TW-3	EPA 8260	270330		
40158427018	TW-5	EPA 8260	270330		
40158427019	TW-6	EPA 8260	270330		
40158427001	B-2 (3-4')	ASTM D2974-87	270684		
40158427002	B-2 (12-13')	ASTM D2974-87	270684		
40158427003	B-1 (3-4')	ASTM D2974-87	270684		
40158427004	B-1 (11.5-12.5')	ASTM D2974-87	270684		
40158427005	B-4 (2-3')	ASTM D2974-87	270720		
40158427006	B-4 (10-11')	ASTM D2974-87	270737		
40158427008	B-3 (3-4')	ASTM D2974-87	270737		
40158427009	B-3 (11-12')	ASTM D2974-87	270720		
40158427010	B-5 (12.5-13.5')	ASTM D2974-87	270720		
40158427011	B-5 (14-15')	ASTM D2974-87	270720		
40158427012	B-6 (3-4')	ASTM D2974-87	270720		
40158427013	B-6 (11-12')	ASTM D2974-87	270720		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **Ramboll Environ**
 Branch/Location: **Brookfield, WI**
 Project Contact: **Susan Petrofske**
 Phone: **(202) 901-3501**
 Project Number: **21-43145B**
 Project Name: **MI Phase II**
 Project State: **WI**
 Sampled By (Print): **Michelle Peters**
 Sampled By (Sign): *Michelle Peters*
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2
 40158427
 Page 98 of 100

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	N	N	N						
F	A	A							
Analyses Requested	VOCs	PAHs	PCRA & MUDS						

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	B-2 (3-4')	10/1/17	0915	S
002	B-2 (12-13')	10/1/17	0920	S
003	B-1 (3-4')	10/9/17	1000	S
004	B-1 (11.5-12.5')	10/9/17	1005	S
005	B-4 (2-3')	10/9/17	1050	S
006	B-4 (10-11')	10/9/17	1055	S
007	TRIP BLANK	10/9/17	—	—
008	B-3 (3-4')	10/9/17	1135	S
009	B-3 (11-12')	10/9/17	1140	S
010	B-5 (12.5-13.5')	10/9/17	1215	S
011	B-5 (14-15')	10/9/17	1220	S
012	B-6 (3-4')	10/9/17	1255	S
013	B-6 (11-12')	10/9/17	1300	S

Quote #: _____

Mail To Contact: **Susan Petrofske**

Mail To Company: **Ramboll Environ**

Mail To Address: **775 N. Corporate Dr. Ste. 160 Brookfield, WI 53045**

Invoice To Contact: (same)

Invoice To Company: _____

Invoice To Address: _____

Invoice To Phone: (202) 901-3501

CLIENT COMMENTS: 1-40mlv^F

LAB COMMENTS (Lab Use Only): 1-40z^A 1-40zag^A

Profile #: _____

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: **5-10/24 TAT**

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Michelle Peters* Date/Time: 10/10/17 2:30 PM

Relinquished By: *Mary Farnin* Date/Time: 10/10/17 1800

Relinquished By: *CS Logistics* Date/Time: 10/11/17 0925

Relinquished By: _____ Date/Time: _____

Received By: *Mary Farnin* Date/Time: 10/10/17 1505

Received By: _____ Date/Time: _____

Received By: *Sako Johnson* Date/Time: 10/11/17 0925

Received By: _____ Date/Time: _____

PACE Project No. **40158427**

Receipt Temp = **RO1** °C

Sample Receipt pH **OK Adjusted**

Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: Ramboll Environ
 Branch/Location: Brookfield, WI
 Project Contact: Susan Petrofske
 Phone: 262-901-3501
 Project Number: 21-431453
 Project Name: MM Phase II
 Project State: WI
 Sampled By (Print): Michelle Peter
 Sampled By (Sign): *[Signature]*
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 2 of 2

40158427

Page 99 of 100

CHAIN OF CUSTODY

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Y/N	N	N	Y								
FILTERED? (YES/NO)											
PRESERVATION (CODE)*											
Analyses Requested											
Pick Letter	B	A	D								

Quote #: _____
 Mail To Contact: Susan Petrofske
 Mail To Company: Ramboll Environ
 Mail To Address: 175 N. Corporate Dr. Ste. 100 Brookfield, WI 53045
 Invoice To Contact: (same)
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: (262) 901-3501
 CLIENT COMMENTS: _____
 LAB COMMENTS: _____
 Profile #: _____
 3-40ml^B 2-100ml^A 1-250ml^D

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX						
		DATE	TIME							
014	TW-2	10/10/17	0855	GW						
015	TW-1	10/10/17	0940	GW						
016	TW-4	10/10/17	1010	GW						
017	TW-3	10/10/17	1030	GW						
018	TW-5	10/10/17	1105	GW						
019	TW-6	10/10/17	1135	GW						

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: <u>5-02V TAT</u>	Relinquished By: <i>[Signature]</i> Date/Time: <u>10/10/17 2:15PM</u>	Received By: <u>Mary Fannin</u> Date/Time: <u>10/10/17 1505</u>	PACE Project No. <u>40158427</u> Receipt Temp = <u>1201 °C</u> Sample Receipt pH <input checked="" type="checkbox"/> OK / Adjusted <input type="checkbox"/> Cooler Custody Seal <input checked="" type="checkbox"/> Present / Not Present <input checked="" type="checkbox"/> Intact / Not Intact
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: <u>Mary Fannin</u> Date/Time: <u>10/10/17 1800</u>	Received By: _____ Date/Time: _____	
Email #1: _____	Relinquished By: <u>CS Logistics</u> Date/Time: <u>10/11/17 0925</u>	Received By: <u>Keith Johnson Pace</u> Date/Time: <u>10/11/17 0925</u>	
Email #2: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Telephone: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Fax: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Project #: **WO# : 40158427**

Client Name: Ramboll Env

Courier: Fed Ex UPS Client Pace Other: CS Logistics



Tracking #: _____
Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 10/11/17
Initials: KJ

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>NO MS/MSD volume KJ 10/11/17</u>
Correct Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>all soil vials tare weight covered by client 004+006 NO PAH containers KJ 10/11/17</u>
- Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
- Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
- Includes date/time/ID/Analysis Matrix: <u>WTS</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 <2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, W/DROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>KJ</u> Lab Std #/ID of preservative _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>014x3 (all vials have excessive sediment)</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>KJ 10/11/17</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>67-56-17 KJ 10/11/17</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 10/12/17