



# Atlantic Shores Environmental Services, Ltd.

September 3, 2020

Ms. Ashely DeSaix  
504 North, LLC  
501 Canterward Drive  
Apex, North Carolina 27539

Subject: Report of Limited Phase II Environmental Site Assessment  
504 North 4<sup>th</sup> Street  
Wilmington, North Carolina  
ASE Project No. 1473A

Dear Ms. DeSaix

Atlantic Shores Environmental Services, Ltd. (ASE) has completed environmental assessment activities for the above referenced site. Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations.

## 1.0 BACKGROUND

ASE completed a Phase I Environmental Site Assessment (ESA) for the parcel located at 504 North Street, Wilmington, New Hanover County, North Carolina. The site consists of New Hanover County Parcel number R04813-028-005-000 and is owned by Downtown Life, LLC

This assessment revealed the following evidence of recognized environmental conditions in connection with the property:

- An auto service and filling station was located on the western adjoining property from approximately 1930 to at least 1967. A portion of the filling station property was located on the current site parcel. The northern portion of the automotive building was located on the subject site.
- Since the fuel source of the former site structure is not known, there is chance that an undocumented fuel tank is present on the site. However, these tanks are typically removed from the site during demolition. It is unlikely that, if a former fuel tank was used on the site, that it remains on the site.

Based on the results of the Phase I ESA, ASE recommended additional assessment of the site to determine if the site soil and/or groundwater has been impacted by the former gas station/automotive repair shop on the southern adjoining property.

## 2.0 FIELD ACTIVITIES

The followed field activities for the Limited Phase II Environmental Site Assessment included the following.

### 2.1 Soil Borings

Two (2) Geoprobe® borings were advanced on the site on August 26, 2020. Figure 2 illustrates the sampling locations. Geoprobe® soil borings were advanced using the Direct Push techniques using a Geoprobe®. The Geoprobe® consists of a hydraulic jack mounted on a drill rig. The Geoprobe® is capable of driving various forms of groundwater and soil sampling probes into the ground to depths equivalent of auger refusal. Mid Atlantic Drilling, Inc. was contracted for the drilling operations for this project. ASE collected each soil sample by driving a 4-foot long, 1.5-inch-diameter sampling probe into the soil. The probe was lined with a disposable clear plastic tube, which was replaced for each 4-foot interval. After the probe is driven, the clear plastic tube filled with soil is removed from the probe. The clear plastic tube is then cut open to remove the soil.

- **Boring B1** - This boring was advanced on the southwest portion of the site along the southern property line. The boring was advanced to a depth of approximately 22 feet below ground surface (bgs) and groundwater was identified at approximately 18 feet 2 inches bgs. Soil was collected in two foot increments and was field screened for volatile organic compounds using a photoionization detector (PID). The PID was calibrated with Isobutylene. The results of the soil field observations did not identify evidence of petroleum or contaminant impact to the soil at this location. Evidence of asphalt and brick debris were identified at ground level to 9 inches below grade. Fine sands were observed from approximately 9 inches to 22 feet bgs. This boring was completed as a temporary monitoring well and a groundwater sample was collected after the well was purged. The borehole was abandoned after sampling per NC Well guidelines.
- **Boring B2** - This boring was advanced on the southeast portion of the site along the southern property line. The boring was advanced to a depth of approximately 22 feet bgs and groundwater was identified at approximately 18 feet bgs. Soil was collected in two foot increments and was field screened for volatile organic compounds using a PID. The results of the soil field observations did not identify evidence of petroleum or contaminant impact to the soil at this location. Dark black organic soil with asphalt debris was observed to approximately 2 feet bgs. Fine sands were observed from 2 feet bgs to 22 feet bgs. This boring was completed as a temporary monitoring well and a groundwater sample was collected after the well was purged. The borehole was abandoned after sampling per NC Well guidelines.

### 2.2 Soil Samples

One soil samples was collected from each boring at approximately eight inches below ground. The soil was placed in laboratory provided containers while wearing disposable nitrile gloves, and the sample containers were labeled with the project name and number, the time and date of sample collection, the analyses to be performed, and the absence or presence of preservative. The sample containers were placed into an ice filled cooler to maintain the samples at approximately 4° Celsius. The samples were transported under chain of custody to Pace Analytical in Huntersville, North Carolina for volatile organic compounds and semi-volatile organic compounds using EPA Methods 8260 and 8270 respectively.

### **2.3 Groundwater Samples**

Temporary groundwater sampling probes were installed in the boring using direct push drilling methods by Mid Atlantic Drilling. The sampling probe consists of a retractable stainless steel screen within a stainless steel rod. The groundwater samples were collected using a peristaltic pump and new, disposable tubing and disposable nitrile gloves and placed in laboratory provided containers.

After being filled, the sample containers were labeled with the project name and number, the time and date of sample collection, the analyses to be performed, and the absence or presence of preservative. The filled sample containers were placed into an ice filled cooler to maintain the samples at approximately 4° Celsius. The groundwater samples were laboratory analyzed for VOCs and SVOCs by EPA methods 8260 and 8270, respectively.

## **3.0 RESULTS**

### **3.1 Soil**

Visual or olfactory indications of contamination were not observed in the soils from the borings. PID field screening also did not identify evidence of impacts.

Semi volatile organic compounds were not identified in the soil samples submitted to the laboratory. However, several volatile compounds were identified in both soil samples. All but two of the compounds were below the regulatory criteria. Methylene Chloride was identified in the SS-1 exceeded the NCDEQ UST section soil to groundwater maximum soil contaminate concentration (MSCC). Benzene was identified in the sample collected from boring B2 which exceeded the soil to groundwater MSCC.

A summary of soil data is presented in Table 1. Copies of the lab data sheets have also been attached to this report.

### **3.2 Groundwater**

Target analyte concentrations of VOCs and SVOCs were not detected in the groundwater samples collected from the site.

## **4.0 CONCLUSIONS**

Based on the data collected as part of this investigation, it does not appear the groundwater on the site has been impacted by the former adjoining filling station and repair facility operations. Soil samples were collected from the brick and asphalt debris layer identified below the asphalt parking lot. Minor impacts were identified in the shallow soils samples, which are likely a result of the debris layer identified under the asphalt. This debris layer was identified between nine inches and two feet in the borings. However, the groundwater data indicates that these contaminants have not impacted the groundwater at these locations.

## **5.0 RECOMMENDATIONS**

ASE does not recommend additional assessment at this time. However, ASE recommends that the site owner be notified of the results of this sampling. Once aware of the impacts, the owner is subject to a North Carolina Department of Environmental Quality (NCDEQ) reporting requirement due to the exceedance of the soil to groundwater MSCC.

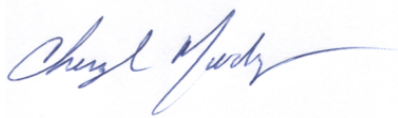
## 6.0 CLOSURE

The activities and evaluative approaches used in this assessment are consistent with those normally employed in assessment and remediation projects of this type. Our evaluation of site conditions has been based on our understanding of the project information, limited sampling locations and the data obtained during our field activities.

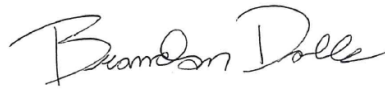
ASE appreciates the opportunity to provide our environmental consulting services to you on this project. If there are questions regarding this report, or a need for further information, please contact us at 910-371-5980.

Sincerely,

**ATLANTIC SHORES ENVIRONMENTAL SERVICES, LTD.**



Cheryl J. Moody, REM, CIEC, CMRS  
Principal Scientist



Brandon S. Dobbs  
Staff Scientist

Attachments: Figures  
Table  
Soil Boring Logs  
Laboratory Data and Chain of Custody

## **FIGURES**

# Figure 1: Site Location



Phase II Environmental Site Assessment  
504 North 4th Street  
Wilmington, North Carolina 28401  
Project Number: 1473A

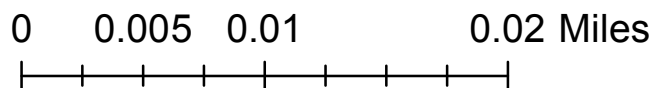
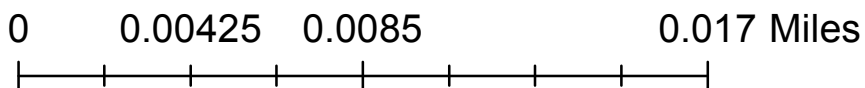
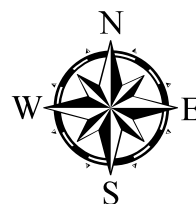


Figure 2: Boring and Temporary Monitoring Well Locations



Phase II Environmental Site Assessment  
504 North 4th Street  
Wilmington, North Carolina 28401  
Project Number: 1473A



**TABLE**



**Table 1**  
 Soil Sampling Results  
 504 North 4th Street  
 Wilmington, North Carolina  
 ASE Project Number 1473A

Sample ID	B1-SS1	B2-SS2	Soil to Water MSCC	Residential MSCC	Ind/Comm MSCC
Depth	8"	8"			
Date	8/26/20	8/26/20			
Percent Moisture	5.30%	6.70%	NE	NE	NE
<b>8260 (ug/Kg)</b>					
Benzene	<9.2	21.5	5.6	18,000	164,000
Ethylbenzene	19.3	56.8	4,900	1,560,000	40,000,000
p-Isopropyltoluene	12.4	<13.9	120	100,000	4,000,000
Methylene Chloride	38.3	<55.4	20	85,000	763,000
Naphthalene	15.2	21.9	160	313,000	8,176,000
Toluene	88.6	244	4,300	1,200,000	32,000,000
1,2,4- Trimethylbenzene	18.8	48.7	8,500	782,000	20,440,000
Xylene (Total)	102	298	4,600	3,129,000	81,760,000
m&p-Xylene	75.8	215	NE	NE	NE
o-Xylene	25.8	82.9	NE	NE	NE
<b>8270 (ug/Kg)</b>					
None Detected					
<b>Note:</b> Highlighted concentrations indicate highest exceedance of the NCDEQ Preliminary Soil Remediation Goals or MSCC					
Above MSCC					
NE: Not Established					
MSCC= NCDEQ Maximum Soil Contaminant Concentrations					

*Report of Phase II Environmental Site Assessment  
504 North 4<sup>th</sup> Street  
Wilmington, North Carolina  
ASE Project No. 1473A*

*September 3, 2020*

## **SOIL BORING LOGS**

**ATLANTIC SHORES ENVIRONMENTAL SERVICES, LTD.**

175-1 Venture Drive  
Belville, NC 28451  
910-371-5980

**VISUAL CLASSIFICATION OF SOILS**

PROJECT NUMBER:	<b>1473</b>	PROJECT NAME:	<b>504 North 4th Street, Wilmington, NC</b>
BORING NUMBER:	<b>B1 and TMW1</b>	COORDINATES	<b>NA</b>
ELEVATION:	<b>NA</b>	GWL:	<b>NA</b>
GEOLOGIST/ENGINEER:	<b>C. Moody</b>	DATE STARTED:	<b>8/26/2020</b>
DRILLING METHODS:	<b>Geoprobe</b>	DATE COMPLETED:	<b>8/26/2020</b> PAGE 1 OF 2

SAMPLE DEPTH (FT)	PENATRA. BLOWS PER FT.	RECOVERY (IN)	DESCRIPTION	USCS SYMBOL	REMARKS PID Readings (ppm)
-3			3' Recovery Dark black organic topsoil with traces of asphalt Red brick Coarse brown sand with trace silt		0.0
-5			Light fine tan sand		0.0
-8			Light fine tan sand		0.0
-10			Slightly wet light fine tan sand		0.0
-13					0.0
-15					0.0
-17			Saturated light fine tan sand		0.0
-20			Water Table		0.0
-25			BOB		

NOTES:

**ATLANTIC SHORES ENVIRONMENTAL SERVICES, LTD.**

175-1 Venture Drive  
Belville, NC 28451  
910-371-5980

**VISUAL CLASSIFICATION OF SOILS**

PROJECT NUMBER: <b>1473</b>	PROJECT NAME: <b>504 North 4th Street, Wilmington, NC</b>
BORING NUMBER: <b>B2 and TMW2</b>	COORDINATES: <b>NA</b>
ELEVATION: <b>NA</b>	GWL: <b>NA</b>
GEOLOGIST/ENGINEER: <b>C. Moody</b>	DATE STARTED: <b>8/26/2020</b>
DRILLING METHODS: <b>Geoprobe</b>	DATE COMPLETED: <b>8/26/2020</b> PAGE 2 OF 2

SAMPLE DEPTH (FT)	PENATRAT. BLOWS PER FT.	RECOVERY (IN)	DESCRIPTION	USCS SYMBOL	REMARKS PID Readings (ppm)
			3' Recovery		
			Dark black organic topsoil with traces of asphalt		0.0
-3			Fine tan sand		
					0.0
-5					0.0
					0.0
-8			Orange/tan fine sand		
					0.0
-10			Light tan/gray fine sand		
					0.0
-13					0.0
					0.0
-15			Dark brown silt with trace sand		
					0.0
-17			Saturated fine white sand		
			Water Table		0.0
-20			BOB		0.0
-25					

NOTES:

*Report of Phase II Environmental Site Assessment  
504 North 4<sup>th</sup> Street  
Wilmington, North Carolina  
ASE Project No. 1473A*

*September 3, 2020*

## **LABORATORY DATA AND CHAIN OF CUSTODY**

September 02, 2020

Cheryl Moody  
Atlantic Shore Environmental  
175-1 Venture Drive  
Leland, NC 28451

RE: Project: 473A  
Pace Project No.: 92492740

Dear Cheryl Moody:

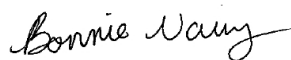
Enclosed are the analytical results for sample(s) received by the laboratory on August 26, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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

## CERTIFICATIONS

Project: 473A

Pace Project No.: 92492740

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### **Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 473A  
Pace Project No.: 92492740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92492740001	SS-1	EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92492740002	GW-1	EPA 8270E	PKS	74	PASI-C
		EPA 8260D	PM1	63	PASI-C
92492740003	SS-2	EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92492740004	GW-2	EPA 8270E	PKS	74	PASI-C
		EPA 8260D	PM1	63	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: SS-1**      **Lab ID: 92492740001**      Collected: 08/26/20 09:20      Received: 08/26/20 16:30      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>		Analytical Method: EPA 8270E    Preparation Method: EPA 3546 Pace Analytical Services - Charlotte						
Acenaphthene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	83-32-9	
Acenaphthylene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	208-96-8	
Aniline	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	62-53-3	
Anthracene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	120-12-7	L2
Benzo(a)anthracene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	56-55-3	
Benzo(a)pyrene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	191-24-2	v1
Benzo(k)fluoranthene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	207-08-9	
Benzoic Acid	ND	ug/kg	1740	1	08/31/20 11:18	09/01/20 10:43	65-85-0	
Benzyl alcohol	ND	ug/kg	697	1	08/31/20 11:18	09/01/20 10:43	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	101-55-3	
Butylbenzylphthalate	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	697	1	08/31/20 11:18	09/01/20 10:43	59-50-7	
4-Chloroaniline	ND	ug/kg	697	1	08/31/20 11:18	09/01/20 10:43	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	111-44-4	
2-Chloronaphthalene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	91-58-7	
2-Chlorophenol	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	7005-72-3	
Chrysene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	53-70-3	v1
Dibenzofuran	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	697	1	08/31/20 11:18	09/01/20 10:43	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	120-83-2	
Diethylphthalate	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	105-67-9	
Dimethylphthalate	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	131-11-3	
Di-n-butylphthalate	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	697	1	08/31/20 11:18	09/01/20 10:43	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1740	1	08/31/20 11:18	09/01/20 10:43	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	606-20-2	
Di-n-octylphthalate	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	117-81-7	
Fluoranthene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	206-44-0	
Fluorene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	87-68-3	
Hexachlorobenzene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	77-47-4	
Hexachloroethane	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	193-39-5	v1

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: SS-1**      **Lab ID: 92492740001**      Collected: 08/26/20 09:20      Received: 08/26/20 16:30      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>								
Analytical Method: EPA 8270E    Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Isophorone	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	78-59-1	
1-Methylnaphthalene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	90-12-0	
2-Methylnaphthalene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	15831-10-4	
Naphthalene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	91-20-3	
2-Nitroaniline	ND	ug/kg	1740	1	08/31/20 11:18	09/01/20 10:43	88-74-4	L2,v2
3-Nitroaniline	ND	ug/kg	1740	1	08/31/20 11:18	09/01/20 10:43	99-09-2	
4-Nitroaniline	ND	ug/kg	697	1	08/31/20 11:18	09/01/20 10:43	100-01-6	
Nitrobenzene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	98-95-3	
2-Nitrophenol	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	88-75-5	
4-Nitrophenol	ND	ug/kg	1740	1	08/31/20 11:18	09/01/20 10:43	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	108-60-1	
Pentachlorophenol	ND	ug/kg	697	1	08/31/20 11:18	09/01/20 10:43	87-86-5	
Phenanthrene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	85-01-8	
Phenol	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	108-95-2	
Pyrene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	129-00-0	
Pyridine	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	348	1	08/31/20 11:18	09/01/20 10:43	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	39	%	23-110	1	08/31/20 11:18	09/01/20 10:43	4165-60-0	
2-Fluorobiphenyl (S)	43	%	30-110	1	08/31/20 11:18	09/01/20 10:43	321-60-8	
Terphenyl-d14 (S)	52	%	28-110	1	08/31/20 11:18	09/01/20 10:43	1718-51-0	
Phenol-d6 (S)	48	%	22-110	1	08/31/20 11:18	09/01/20 10:43	13127-88-3	
2-Fluorophenol (S)	44	%	13-110	1	08/31/20 11:18	09/01/20 10:43	367-12-4	
2,4,6-Tribromophenol (S)	57	%	27-110	1	08/31/20 11:18	09/01/20 10:43	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>								
Analytical Method: EPA 8260D    Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Charlotte								
Acetone	ND	ug/kg	184	1	08/28/20 11:09	08/28/20 16:20	67-64-1	v2
Benzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	71-43-2	
Bromobenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	108-86-1	
Bromochloromethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	74-97-5	IK
Bromodichloromethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	75-27-4	
Bromoform	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	75-25-2	
Bromomethane	ND	ug/kg	18.4	1	08/28/20 11:09	08/28/20 16:20	74-83-9	v2
2-Butanone (MEK)	ND	ug/kg	184	1	08/28/20 11:09	08/28/20 16:20	78-93-3	v2
n-Butylbenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	98-06-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: SS-1**      **Lab ID: 92492740001**      Collected: 08/26/20 09:20      Received: 08/26/20 16:30      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>		Analytical Method: EPA 8260D    Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
Carbon tetrachloride	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	56-23-5	
Chlorobenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	108-90-7	
Chloroethane	ND	ug/kg	18.4	1	08/28/20 11:09	08/28/20 16:20	75-00-3	
Chloroform	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	67-66-3	
Chloromethane	ND	ug/kg	18.4	1	08/28/20 11:09	08/28/20 16:20	74-87-3	v2
2-Chlorotoluene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	96-12-8	
Dibromochloromethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	106-93-4	
Dibromomethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	18.4	1	08/28/20 11:09	08/28/20 16:20	75-71-8	v2
1,1-Dichloroethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	10061-02-6	
Diisopropyl ether	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	108-20-3	v2
Ethylbenzene	19.3	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	87-68-3	
2-Hexanone	ND	ug/kg	92.1	1	08/28/20 11:09	08/28/20 16:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	98-82-8	
p-Isopropyltoluene	12.4	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	99-87-6	
Methylene Chloride	38.3	ug/kg	36.8	1	08/28/20 11:09	08/28/20 16:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	92.1	1	08/28/20 11:09	08/28/20 16:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	1634-04-4	
Naphthalene	15.2	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	91-20-3	
n-Propylbenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	103-65-1	
Styrene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	79-34-5	
Tetrachloroethene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	127-18-4	
Toluene	88.6	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	71-55-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: SS-1**      **Lab ID: 92492740001**      Collected: 08/26/20 09:20      Received: 08/26/20 16:30      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>		Analytical Method: EPA 8260D    Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
1,1,2-Trichloroethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	79-00-5	
Trichloroethene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	96-18-4	
1,2,4-Trimethylbenzene	<b>18.8</b>	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	108-67-8	
Vinyl acetate	ND	ug/kg	92.1	1	08/28/20 11:09	08/28/20 16:20	108-05-4	
Vinyl chloride	ND	ug/kg	18.4	1	08/28/20 11:09	08/28/20 16:20	75-01-4	
Xylene (Total)	<b>102</b>	ug/kg	18.4	1	08/28/20 11:09	08/28/20 16:20	1330-20-7	
m&p-Xylene	<b>75.8</b>	ug/kg	18.4	1	08/28/20 11:09	08/28/20 16:20	179601-23-1	
o-Xylene	<b>25.8</b>	ug/kg	9.2	1	08/28/20 11:09	08/28/20 16:20	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	97	%	70-130	1	08/28/20 11:09	08/28/20 16:20	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1	08/28/20 11:09	08/28/20 16:20	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-132	1	08/28/20 11:09	08/28/20 16:20	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte						
Percent Moisture	<b>5.3</b>	%	0.10	1		08/28/20 14:28		D6

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

Sample: <b>GW-1</b>	Lab ID: <b>92492740002</b>	Collected: 08/26/20 10:05	Received: 08/26/20 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E RVE</b>								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	208-96-8	
Aniline	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	62-53-3	
Anthracene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	09/01/20 08:23	09/01/20 20:30	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	7005-72-3	
Chrysene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:30	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:30	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	09/01/20 08:23	09/01/20 20:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	09/01/20 08:23	09/01/20 20:30	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	206-44-0	
Fluorene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	193-39-5	
Isophorone	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	78-59-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: GW-1**      **Lab ID: 92492740002**      Collected: 08/26/20 10:05      Received: 08/26/20 16:30      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**8270E RVE**

Analytical Method: EPA 8270E      Preparation Method: EPA 3510C  
Pace Analytical Services - Charlotte

1-Methylnaphthalene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:30	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:30	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:30	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	09/01/20 08:23	09/01/20 20:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	108-60-1	v1
Pentachlorophenol	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:30	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	85-01-8	
Phenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	108-95-2	
Pyrene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:30	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	74	%	13-130	1	09/01/20 08:23	09/01/20 20:30	4165-60-0	
2-Fluorobiphenyl (S)	67	%	13-130	1	09/01/20 08:23	09/01/20 20:30	321-60-8	
Terphenyl-d14 (S)	130	%	25-130	1	09/01/20 08:23	09/01/20 20:30	1718-51-0	
Phenol-d6 (S)	35	%	10-130	1	09/01/20 08:23	09/01/20 20:30	13127-88-3	
2-Fluorophenol (S)	46	%	10-130	1	09/01/20 08:23	09/01/20 20:30	367-12-4	
2,4,6-Tribromophenol (S)	90	%	10-137	1	09/01/20 08:23	09/01/20 20:30	118-79-6	

**8260D MSV Low Level**

Analytical Method: EPA 8260D  
Pace Analytical Services - Charlotte

Acetone	ND	ug/L	25.0	1		09/02/20 14:36	67-64-1	
Benzene	ND	ug/L	1.0	1		09/02/20 14:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/02/20 14:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/02/20 14:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/02/20 14:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/02/20 14:36	75-25-2	
Bromomethane	ND	ug/L	2.0	1		09/02/20 14:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/02/20 14:36	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/02/20 14:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/02/20 14:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/02/20 14:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/20 14:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/02/20 14:36	74-87-3	v2
2-Chlorotoluene	ND	ug/L	1.0	1		09/02/20 14:36	95-49-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

Sample: GW-1	Lab ID: 92492740002	Collected: 08/26/20 10:05	Received: 08/26/20 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
4-Chlorotoluene	ND	ug/L	1.0	1		09/02/20 14:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/02/20 14:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/02/20 14:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/02/20 14:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/02/20 14:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/02/20 14:36	75-71-8	v2
1,1-Dichloroethane	ND	ug/L	1.0	1		09/02/20 14:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/02/20 14:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/02/20 14:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/02/20 14:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/02/20 14:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/02/20 14:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/02/20 14:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/02/20 14:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/02/20 14:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/02/20 14:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/02/20 14:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/02/20 14:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/02/20 14:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/02/20 14:36	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/02/20 14:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/02/20 14:36	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		09/02/20 14:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/02/20 14:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/02/20 14:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/02/20 14:36	91-20-3	
Styrene	ND	ug/L	1.0	1		09/02/20 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/02/20 14:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/02/20 14:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/02/20 14:36	127-18-4	
Toluene	ND	ug/L	1.0	1		09/02/20 14:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/02/20 14:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/02/20 14:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/02/20 14:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/02/20 14:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/02/20 14:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		09/02/20 14:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/02/20 14:36	75-01-4	v2
Xylene (Total)	ND	ug/L	1.0	1		09/02/20 14:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/02/20 14:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/02/20 14:36	95-47-6	

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: GW-1</b>		<b>Lab ID: 92492740002</b>		Collected: 08/26/20 10:05	Received: 08/26/20 16:30	Matrix: Water		
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100	%	70-130	1		09/02/20 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70-130	1		09/02/20 14:36	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		09/02/20 14:36	2037-26-5	

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: SS-2**      **Lab ID: 92492740003**      Collected: 08/26/20 10:53      Received: 08/26/20 16:30      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>		Analytical Method: EPA 8270E    Preparation Method: EPA 3546 Pace Analytical Services - Charlotte						
Acenaphthene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	83-32-9	
Acenaphthylene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	208-96-8	
Aniline	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	62-53-3	
Anthracene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	120-12-7	
Benzo(a)anthracene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	56-55-3	
Benzo(a)pyrene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	207-08-9	
Benzoic Acid	ND	ug/kg	1800	1	09/01/20 15:18	09/02/20 12:12	65-85-0	
Benzyl alcohol	ND	ug/kg	720	1	09/01/20 15:18	09/02/20 12:12	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	101-55-3	
Butylbenzylphthalate	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	720	1	09/01/20 15:18	09/02/20 12:12	59-50-7	
4-Chloroaniline	ND	ug/kg	720	1	09/01/20 15:18	09/02/20 12:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	111-44-4	
2-Chloronaphthalene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	91-58-7	
2-Chlorophenol	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	7005-72-3	
Chrysene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	53-70-3	v1
Dibenzofuran	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	720	1	09/01/20 15:18	09/02/20 12:12	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	120-83-2	
Diethylphthalate	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	105-67-9	
Dimethylphthalate	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	131-11-3	
Di-n-butylphthalate	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	720	1	09/01/20 15:18	09/02/20 12:12	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1800	1	09/01/20 15:18	09/02/20 12:12	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	606-20-2	
Di-n-octylphthalate	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	117-81-7	
Fluoranthene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	206-44-0	
Fluorene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	87-68-3	
Hexachlorobenzene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	77-47-4	v2
Hexachloroethane	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	193-39-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: SS-2**      **Lab ID: 92492740003**      Collected: 08/26/20 10:53      Received: 08/26/20 16:30      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>								
Analytical Method: EPA 8270E    Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Isophorone	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	78-59-1	
1-Methylnaphthalene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	90-12-0	
2-Methylnaphthalene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	15831-10-4	
Naphthalene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	91-20-3	
2-Nitroaniline	ND	ug/kg	1800	1	09/01/20 15:18	09/02/20 12:12	88-74-4	v2
3-Nitroaniline	ND	ug/kg	1800	1	09/01/20 15:18	09/02/20 12:12	99-09-2	
4-Nitroaniline	ND	ug/kg	720	1	09/01/20 15:18	09/02/20 12:12	100-01-6	
Nitrobenzene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	98-95-3	
2-Nitrophenol	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	88-75-5	
4-Nitrophenol	ND	ug/kg	1800	1	09/01/20 15:18	09/02/20 12:12	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	108-60-1	v2
Pentachlorophenol	ND	ug/kg	720	1	09/01/20 15:18	09/02/20 12:12	87-86-5	
Phenanthrene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	85-01-8	
Phenol	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	108-95-2	
Pyrene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	129-00-0	
Pyridine	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	360	1	09/01/20 15:18	09/02/20 12:12	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	53	%	23-110	1	09/01/20 15:18	09/02/20 12:12	4165-60-0	
2-Fluorobiphenyl (S)	65	%	30-110	1	09/01/20 15:18	09/02/20 12:12	321-60-8	
Terphenyl-d14 (S)	85	%	28-110	1	09/01/20 15:18	09/02/20 12:12	1718-51-0	
Phenol-d6 (S)	63	%	22-110	1	09/01/20 15:18	09/02/20 12:12	13127-88-3	
2-Fluorophenol (S)	58	%	13-110	1	09/01/20 15:18	09/02/20 12:12	367-12-4	
2,4,6-Tribromophenol (S)	92	%	27-110	1	09/01/20 15:18	09/02/20 12:12	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>								
Analytical Method: EPA 8260D    Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Charlotte								
Acetone	ND	ug/kg	277	1	08/28/20 11:09	08/28/20 16:38	67-64-1	v2
Benzene	21.5	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	71-43-2	
Bromobenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	108-86-1	
Bromochloromethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	74-97-5	IK
Bromodichloromethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	75-27-4	
Bromoform	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	75-25-2	
Bromomethane	ND	ug/kg	27.7	1	08/28/20 11:09	08/28/20 16:38	74-83-9	v2
2-Butanone (MEK)	ND	ug/kg	277	1	08/28/20 11:09	08/28/20 16:38	78-93-3	v2
n-Butylbenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	104-51-8	
sec-Butylbenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	98-06-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: SS-2**      **Lab ID: 92492740003**      Collected: 08/26/20 10:53      Received: 08/26/20 16:30      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>		Analytical Method: EPA 8260D    Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
Carbon tetrachloride	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	56-23-5	
Chlorobenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	108-90-7	
Chloroethane	ND	ug/kg	27.7	1	08/28/20 11:09	08/28/20 16:38	75-00-3	
Chloroform	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	67-66-3	
Chloromethane	ND	ug/kg	27.7	1	08/28/20 11:09	08/28/20 16:38	74-87-3	v2
2-Chlorotoluene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	96-12-8	
Dibromochloromethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	106-93-4	
Dibromomethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	27.7	1	08/28/20 11:09	08/28/20 16:38	75-71-8	v2
1,1-Dichloroethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	156-60-5	
1,2-Dichloropropane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	10061-02-6	
Diisopropyl ether	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	108-20-3	v2
Ethylbenzene	<b>56.8</b>	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	87-68-3	
2-Hexanone	ND	ug/kg	139	1	08/28/20 11:09	08/28/20 16:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	99-87-6	
Methylene Chloride	ND	ug/kg	55.4	1	08/28/20 11:09	08/28/20 16:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	139	1	08/28/20 11:09	08/28/20 16:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	1634-04-4	
Naphthalene	<b>21.9</b>	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	91-20-3	
n-Propylbenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	103-65-1	
Styrene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	79-34-5	
Tetrachloroethene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	127-18-4	
Toluene	<b>244</b>	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	71-55-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: SS-2**      **Lab ID: 92492740003**      Collected: 08/26/20 10:53      Received: 08/26/20 16:30      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>		Analytical Method: EPA 8260D    Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
1,1,2-Trichloroethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	79-00-5	
Trichloroethene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	96-18-4	
1,2,4-Trimethylbenzene	<b>48.7</b>	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	108-67-8	
Vinyl acetate	ND	ug/kg	139	1	08/28/20 11:09	08/28/20 16:38	108-05-4	
Vinyl chloride	ND	ug/kg	27.7	1	08/28/20 11:09	08/28/20 16:38	75-01-4	
Xylene (Total)	<b>298</b>	ug/kg	27.7	1	08/28/20 11:09	08/28/20 16:38	1330-20-7	
m&p-Xylene	<b>215</b>	ug/kg	27.7	1	08/28/20 11:09	08/28/20 16:38	179601-23-1	
o-Xylene	<b>82.9</b>	ug/kg	13.9	1	08/28/20 11:09	08/28/20 16:38	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	100	%	70-130	1	08/28/20 11:09	08/28/20 16:38	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1	08/28/20 11:09	08/28/20 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-132	1	08/28/20 11:09	08/28/20 16:38	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte						
Percent Moisture	<b>6.7</b>	%	0.10	1		08/28/20 14:28		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

Sample: GW-2	Lab ID: 92492740004	Collected: 08/26/20 11:20	Received: 08/26/20 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E RVE</b>								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	208-96-8	
Aniline	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	62-53-3	
Anthracene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	09/01/20 08:23	09/01/20 20:56	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	7005-72-3	
Chrysene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:56	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:56	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	09/01/20 08:23	09/01/20 20:56	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	09/01/20 08:23	09/01/20 20:56	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	206-44-0	
Fluorene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	193-39-5	
Isophorone	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	78-59-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

**Sample: GW-2**      **Lab ID: 92492740004**      Collected: 08/26/20 11:20      Received: 08/26/20 16:30      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**8270E RVE**

Analytical Method: EPA 8270E      Preparation Method: EPA 3510C  
Pace Analytical Services - Charlotte

1-Methylnaphthalene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:56	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:56	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:56	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	09/01/20 08:23	09/01/20 20:56	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	108-60-1	v1
Pentachlorophenol	ND	ug/L	20.0	1	09/01/20 08:23	09/01/20 20:56	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	85-01-8	
Phenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	108-95-2	
Pyrene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	09/01/20 08:23	09/01/20 20:56	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	84	%	13-130	1	09/01/20 08:23	09/01/20 20:56	4165-60-0	
2-Fluorobiphenyl (S)	74	%	13-130	1	09/01/20 08:23	09/01/20 20:56	321-60-8	
Terphenyl-d14 (S)	128	%	25-130	1	09/01/20 08:23	09/01/20 20:56	1718-51-0	
Phenol-d6 (S)	41	%	10-130	1	09/01/20 08:23	09/01/20 20:56	13127-88-3	
2-Fluorophenol (S)	54	%	10-130	1	09/01/20 08:23	09/01/20 20:56	367-12-4	
2,4,6-Tribromophenol (S)	88	%	10-137	1	09/01/20 08:23	09/01/20 20:56	118-79-6	

**8260D MSV Low Level**

Analytical Method: EPA 8260D  
Pace Analytical Services - Charlotte

Acetone	ND	ug/L	25.0	1		09/02/20 14:54	67-64-1	
Benzene	ND	ug/L	1.0	1		09/02/20 14:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/02/20 14:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/02/20 14:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/02/20 14:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/02/20 14:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		09/02/20 14:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/02/20 14:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/02/20 14:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/02/20 14:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/02/20 14:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/20 14:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/02/20 14:54	74-87-3	v2
2-Chlorotoluene	ND	ug/L	1.0	1		09/02/20 14:54	95-49-8	

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### ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

Sample: <b>GW-2</b>	Lab ID: <b>92492740004</b>	Collected: 08/26/20 11:20	Received: 08/26/20 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
4-Chlorotoluene	ND	ug/L	1.0	1		09/02/20 14:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/02/20 14:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/02/20 14:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/02/20 14:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/02/20 14:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/02/20 14:54	75-71-8	v2
1,1-Dichloroethane	ND	ug/L	1.0	1		09/02/20 14:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/02/20 14:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/02/20 14:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/02/20 14:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/02/20 14:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/02/20 14:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/02/20 14:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/02/20 14:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/02/20 14:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/02/20 14:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/02/20 14:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/02/20 14:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/02/20 14:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/02/20 14:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/02/20 14:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/02/20 14:54	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		09/02/20 14:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/02/20 14:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/02/20 14:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/02/20 14:54	91-20-3	
Styrene	ND	ug/L	1.0	1		09/02/20 14:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/02/20 14:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/02/20 14:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/02/20 14:54	127-18-4	
Toluene	ND	ug/L	1.0	1		09/02/20 14:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/02/20 14:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/02/20 14:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/02/20 14:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/02/20 14:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/02/20 14:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/02/20 14:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		09/02/20 14:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/02/20 14:54	75-01-4	v2
Xylene (Total)	ND	ug/L	1.0	1		09/02/20 14:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/02/20 14:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/02/20 14:54	95-47-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 473A  
Pace Project No.: 92492740

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: GW-2</b>		<b>Lab ID: 92492740004</b>		Collected: 08/26/20 11:20	Received: 08/26/20 16:30	Matrix: Water		
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		09/02/20 14:54	460-00-4	
1,2-Dichloroethane-d4 (S)	128	%	70-130	1		09/02/20 14:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/02/20 14:54	2037-26-5	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

QC Batch: 563087      Analysis Method: EPA 8260D  
QC Batch Method: EPA 5035A/5030B      Analysis Description: 8260D 5035A 5030B  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492740001, 92492740003

METHOD BLANK: 2985859      Matrix: Solid

Associated Lab Samples: 92492740001, 92492740003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/28/20 12:02	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/28/20 12:02	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/28/20 12:02	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/28/20 12:02	
1,1-Dichloroethane	ug/kg	ND	5.0	08/28/20 12:02	
1,1-Dichloroethene	ug/kg	ND	5.0	08/28/20 12:02	
1,1-Dichloropropene	ug/kg	ND	5.0	08/28/20 12:02	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	08/28/20 12:02	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/28/20 12:02	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	08/28/20 12:02	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	08/28/20 12:02	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	08/28/20 12:02	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/28/20 12:02	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/28/20 12:02	
1,2-Dichloroethane	ug/kg	ND	5.0	08/28/20 12:02	
1,2-Dichloropropane	ug/kg	ND	5.0	08/28/20 12:02	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	08/28/20 12:02	
1,3-Dichlorobenzene	ug/kg	ND	5.0	08/28/20 12:02	
1,3-Dichloropropane	ug/kg	ND	5.0	08/28/20 12:02	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/28/20 12:02	
2,2-Dichloropropane	ug/kg	ND	5.0	08/28/20 12:02	
2-Butanone (MEK)	ug/kg	ND	100	08/28/20 12:02	v2
2-Chlorotoluene	ug/kg	ND	5.0	08/28/20 12:02	
2-Hexanone	ug/kg	ND	50.0	08/28/20 12:02	
4-Chlorotoluene	ug/kg	ND	5.0	08/28/20 12:02	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	08/28/20 12:02	
Acetone	ug/kg	ND	100	08/28/20 12:02	v2
Benzene	ug/kg	ND	5.0	08/28/20 12:02	
Bromobenzene	ug/kg	ND	5.0	08/28/20 12:02	
Bromochloromethane	ug/kg	ND	5.0	08/28/20 12:02	IK
Bromodichloromethane	ug/kg	ND	5.0	08/28/20 12:02	
Bromoform	ug/kg	ND	5.0	08/28/20 12:02	
Bromomethane	ug/kg	ND	10.0	08/28/20 12:02	
Carbon tetrachloride	ug/kg	ND	5.0	08/28/20 12:02	
Chlorobenzene	ug/kg	ND	5.0	08/28/20 12:02	
Chloroethane	ug/kg	ND	10.0	08/28/20 12:02	
Chloroform	ug/kg	ND	5.0	08/28/20 12:02	
Chloromethane	ug/kg	ND	10.0	08/28/20 12:02	v2
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/28/20 12:02	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/28/20 12:02	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

METHOD BLANK: 2985859 Matrix: Solid

Associated Lab Samples: 92492740001, 92492740003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	08/28/20 12:02	
Dibromomethane	ug/kg	ND	5.0	08/28/20 12:02	
Dichlorodifluoromethane	ug/kg	ND	10.0	08/28/20 12:02	v2
Diisopropyl ether	ug/kg	ND	5.0	08/28/20 12:02	v2
Ethylbenzene	ug/kg	ND	5.0	08/28/20 12:02	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	08/28/20 12:02	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	08/28/20 12:02	
m&p-Xylene	ug/kg	ND	10.0	08/28/20 12:02	
Methyl-tert-butyl ether	ug/kg	ND	5.0	08/28/20 12:02	
Methylene Chloride	ug/kg	ND	20.0	08/28/20 12:02	v2
n-Butylbenzene	ug/kg	ND	5.0	08/28/20 12:02	
n-Propylbenzene	ug/kg	ND	5.0	08/28/20 12:02	
Naphthalene	ug/kg	ND	5.0	08/28/20 12:02	
o-Xylene	ug/kg	ND	5.0	08/28/20 12:02	
p-Isopropyltoluene	ug/kg	ND	5.0	08/28/20 12:02	
sec-Butylbenzene	ug/kg	ND	5.0	08/28/20 12:02	
Styrene	ug/kg	ND	5.0	08/28/20 12:02	
tert-Butylbenzene	ug/kg	ND	5.0	08/28/20 12:02	
Tetrachloroethene	ug/kg	ND	5.0	08/28/20 12:02	
Toluene	ug/kg	ND	5.0	08/28/20 12:02	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/28/20 12:02	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/28/20 12:02	
Trichloroethene	ug/kg	ND	5.0	08/28/20 12:02	
Trichlorofluoromethane	ug/kg	ND	5.0	08/28/20 12:02	
Vinyl acetate	ug/kg	ND	50.0	08/28/20 12:02	
Vinyl chloride	ug/kg	ND	10.0	08/28/20 12:02	
Xylene (Total)	ug/kg	ND	10.0	08/28/20 12:02	
1,2-Dichloroethane-d4 (S)	%	101	70-132	08/28/20 12:02	
4-Bromofluorobenzene (S)	%	101	70-130	08/28/20 12:02	
Toluene-d8 (S)	%	99	70-130	08/28/20 12:02	

LABORATORY CONTROL SAMPLE: 2985860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1370	109	70-130	
1,1,1-Trichloroethane	ug/kg	1250	1260	101	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1180	94	55-130	
1,1,2-Trichloroethane	ug/kg	1250	1250	100	70-130	
1,1-Dichloroethane	ug/kg	1250	1150	92	68-130	
1,1-Dichloroethene	ug/kg	1250	1140	91	70-130	
1,1-Dichloropropene	ug/kg	1250	1170	94	70-130	
1,2,3-Trichlorobenzene	ug/kg	1250	1220	97	70-130	
1,2,3-Trichloropropane	ug/kg	1250	1190	95	70-130	
1,2,4-Trichlorobenzene	ug/kg	1250	1190	96	70-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2985860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1250	1200	96	69-130	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1320	106	57-141	
1,2-Dibromoethane (EDB)	ug/kg	1250	1260	100	70-130	
1,2-Dichlorobenzene	ug/kg	1250	1220	97	70-130	
1,2-Dichloroethane	ug/kg	1250	1040	84	70-130	
1,2-Dichloropropane	ug/kg	1250	1240	99	70-130	
1,3,5-Trimethylbenzene	ug/kg	1250	1230	98	70-130	
1,3-Dichlorobenzene	ug/kg	1250	1230	98	70-130	
1,3-Dichloropropane	ug/kg	1250	1230	99	70-130	
1,4-Dichlorobenzene	ug/kg	1250	1200	96	70-130	
2,2-Dichloropropane	ug/kg	1250	1170	94	70-130	
2-Butanone (MEK)	ug/kg	2500	2090	83	60-130 v3	
2-Chlorotoluene	ug/kg	1250	1230	99	70-130	
2-Hexanone	ug/kg	2500	2310	93	70-132	
4-Chlorotoluene	ug/kg	1250	1190	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2250	90	69-130	
Acetone	ug/kg	2500	2140	86	49-148 v3	
Benzene	ug/kg	1250	1180	94	70-130	
Bromobenzene	ug/kg	1250	1260	100	70-130	
Bromochloromethane	ug/kg	1250	1160	93	70-130 IK	
Bromodichloromethane	ug/kg	1250	1210	97	70-130	
Bromoform	ug/kg	1250	1390	111	68-136	
Bromomethane	ug/kg	1250	1440	115	60-140	
Carbon tetrachloride	ug/kg	1250	1430	114	70-130	
Chlorobenzene	ug/kg	1250	1250	100	70-130	
Chloroethane	ug/kg	1250	1080	86	51-147	
Chloroform	ug/kg	1250	1200	96	70-130	
Chloromethane	ug/kg	1250	769	62	48-130 v3	
cis-1,2-Dichloroethene	ug/kg	1250	1150	92	70-130	
cis-1,3-Dichloropropene	ug/kg	1250	1270	102	70-130	
Dibromochloromethane	ug/kg	1250	1370	109	70-130	
Dibromomethane	ug/kg	1250	1370	109	70-130	
Dichlorodifluoromethane	ug/kg	1250	1010	81	49-130 v3	
Diisopropyl ether	ug/kg	1250	1010	81	66-130 v3	
Ethylbenzene	ug/kg	1250	1180	95	70-130	
Hexachloro-1,3-butadiene	ug/kg	1250	1260	101	70-130	
Isopropylbenzene (Cumene)	ug/kg	1250	1280	102	70-130	
m&p-Xylene	ug/kg	2500	2540	102	70-130	
Methyl-tert-butyl ether	ug/kg	1250	1180	94	70-130	
Methylene Chloride	ug/kg	1250	942	75	50-137 v3	
n-Butylbenzene	ug/kg	1250	1170	93	70-130	
n-Propylbenzene	ug/kg	1250	1180	95	70-130	
Naphthalene	ug/kg	1250	1220	98	70-131	
o-Xylene	ug/kg	1250	1230	99	70-130	
p-Isopropyltoluene	ug/kg	1250	1210	97	70-130	
sec-Butylbenzene	ug/kg	1250	1220	98	70-130	
Styrene	ug/kg	1250	1370	110	70-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2985860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	1250	1170	93	69-130	
Tetrachloroethene	ug/kg	1250	1340	107	56-130	
Toluene	ug/kg	1250	1200	96	70-130	
trans-1,2-Dichloroethene	ug/kg	1250	1160	93	70-130	
trans-1,3-Dichloropropene	ug/kg	1250	1240	99	70-130	
Trichloroethene	ug/kg	1250	1320	106	70-141	
Trichlorofluoromethane	ug/kg	1250	1280	102	67-130	
Vinyl acetate	ug/kg	2500	2110	84	10-136	
Vinyl chloride	ug/kg	1250	917	73	67-130	
Xylene (Total)	ug/kg	3750	3770	101	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2985862

Parameter	Units	92492881002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	440	459	104	52-133	
1,1,1-Trichloroethane	ug/kg	ND	440	453	103	49-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	440	388	88	39-150	
1,1,2-Trichloroethane	ug/kg	ND	440	431	98	48-140	
1,1-Dichloroethane	ug/kg	ND	440	375	85	46-135	
1,1-Dichloroethene	ug/kg	ND	440	334	76	38-149	
1,1-Dichloropropene	ug/kg	ND	440	422	96	41-140	
1,2,3-Trichlorobenzene	ug/kg	ND	440	429	97	10-158	
1,2,3-Trichloropropane	ug/kg	ND	440	394	90	33-157	
1,2,4-Trichlorobenzene	ug/kg	ND	440	440	100	10-155	
1,2,4-Trimethylbenzene	ug/kg	11.3	440	453	100	24-154	
1,2-Dibromo-3-chloropropane	ug/kg	ND	440	397	90	33-158	
1,2-Dibromoethane (EDB)	ug/kg	ND	440	394	90	40-136	
1,2-Dichlorobenzene	ug/kg	ND	440	439	100	27-146	
1,2-Dichloroethane	ug/kg	ND	440	410	93	49-140	
1,2-Dichloropropane	ug/kg	ND	440	434	98	44-143	
1,3,5-Trimethylbenzene	ug/kg	ND	440	444	100	40-144	
1,3-Dichlorobenzene	ug/kg	ND	440	439	100	33-140	
1,3-Dichloropropane	ug/kg	ND	440	407	92	47-147	
1,4-Dichlorobenzene	ug/kg	ND	440	426	97	35-139	
2,2-Dichloropropane	ug/kg	ND	440	243	55	41-140	
2-Butanone (MEK)	ug/kg	ND	881	621	70	10-181	v3
2-Chlorotoluene	ug/kg	ND	440	436	99	38-147	
2-Hexanone	ug/kg	ND	881	429	49	18-169	
4-Chlorotoluene	ug/kg	ND	440	430	98	36-145	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	881	732	83	16-175	
Acetone	ug/kg	ND	881	439	50	10-200	v3
Benzene	ug/kg	ND	440	417	95	46-136	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

MATRIX SPIKE SAMPLE:	2985862	92492881002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	440	444	101	38-149	
Bromochloromethane	ug/kg	ND	440	399	91	44-142	IK
Bromodichloromethane	ug/kg	ND	440	418	95	41-140	
Bromoform	ug/kg	ND	440	445	101	34-145	
Bromomethane	ug/kg	ND	440	769	175	14-162	M1
Carbon tetrachloride	ug/kg	ND	440	494	112	44-141	
Chlorobenzene	ug/kg	ND	440	434	99	39-141	
Chloroethane	ug/kg	ND	440	196	44	10-182	
Chloroform	ug/kg	ND	440	376	85	45-140	
Chloromethane	ug/kg	ND	440	347	79	19-149	v3
cis-1,2-Dichloroethene	ug/kg	ND	440	395	90	38-150	
cis-1,3-Dichloropropene	ug/kg	ND	440	419	95	30-144	
Dibromochloromethane	ug/kg	ND	440	435	99	36-145	
Dibromomethane	ug/kg	ND	440	431	98	41-145	
Dichlorodifluoromethane	ug/kg	ND	440	369	84	16-146	v3
Diisopropyl ether	ug/kg	ND	440	358	81	41-143	v3
Ethylbenzene	ug/kg	4.6	440	413	93	35-144	
Hexachloro-1,3-butadiene	ug/kg	ND	440	461	105	10-160	
Isopropylbenzene (Cumene)	ug/kg	ND	440	459	104	30-152	
m&p-Xylene	ug/kg	14.6	881	906	101	33-145	
Methyl-tert-butyl ether	ug/kg	ND	440	403	91	49-140	
Methylene Chloride	ug/kg	ND	440	363	83	10-174	v3
n-Butylbenzene	ug/kg	ND	440	426	97	10-160	
n-Propylbenzene	ug/kg	ND	440	432	98	24-159	
Naphthalene	ug/kg	7.5	440	407	91	10-171	
o-Xylene	ug/kg	10.2	440	449	100	31-150	
p-Isopropyltoluene	ug/kg	ND	440	447	102	21-154	
sec-Butylbenzene	ug/kg	ND	440	448	102	19-159	
Styrene	ug/kg	ND	440	455	103	15-152	
tert-Butylbenzene	ug/kg	ND	440	440	100	31-141	
Tetrachloroethene	ug/kg	ND	440	465	106	19-141	
Toluene	ug/kg	24.3	440	451	97	31-146	
trans-1,2-Dichloroethene	ug/kg	ND	440	414	94	28-157	
trans-1,3-Dichloropropene	ug/kg	ND	440	397	90	25-146	
Trichloroethene	ug/kg	ND	440	469	107	34-149	
Trichlorofluoromethane	ug/kg	ND	440	178	40	10-167	
Vinyl acetate	ug/kg	ND	881	661	75	10-200	
Vinyl chloride	ug/kg	ND	440	377	86	36-155	
Xylene (Total)	ug/kg	24.9	1320	1350	101	29-148	
1,2-Dichloroethane-d4 (S)	%				102	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				99	70-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

SAMPLE DUPLICATE: 2985861

Parameter	Units	92492881001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		v2
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		v2
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		IK
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		v2
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		v2
Diisopropyl ether	ug/kg	ND	ND		v2
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

SAMPLE DUPLICATE: 2985861

Parameter	Units	92492881001 Result	Dup Result	RPD	Qualifiers
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		v2
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	5.1		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	94	91		
4-Bromofluorobenzene (S)	%	101	101		
Toluene-d8 (S)	%	98	97		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

QC Batch: 564034 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492740002, 92492740004

METHOD BLANK: 2989873 Matrix: Water

Associated Lab Samples: 92492740002, 92492740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/02/20 13:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/02/20 13:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/02/20 13:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/02/20 13:13	
1,1-Dichloroethane	ug/L	ND	1.0	09/02/20 13:13	
1,1-Dichloroethene	ug/L	ND	1.0	09/02/20 13:13	
1,1-Dichloropropene	ug/L	ND	1.0	09/02/20 13:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/02/20 13:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/02/20 13:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/02/20 13:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/02/20 13:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/02/20 13:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/02/20 13:13	
1,2-Dichloroethane	ug/L	ND	1.0	09/02/20 13:13	
1,2-Dichloropropane	ug/L	ND	1.0	09/02/20 13:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/02/20 13:13	
1,3-Dichloropropane	ug/L	ND	1.0	09/02/20 13:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/02/20 13:13	
2,2-Dichloropropane	ug/L	ND	1.0	09/02/20 13:13	
2-Butanone (MEK)	ug/L	ND	5.0	09/02/20 13:13	
2-Chlorotoluene	ug/L	ND	1.0	09/02/20 13:13	
2-Hexanone	ug/L	ND	5.0	09/02/20 13:13	
4-Chlorotoluene	ug/L	ND	1.0	09/02/20 13:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/02/20 13:13	
Acetone	ug/L	ND	25.0	09/02/20 13:13	
Benzene	ug/L	ND	1.0	09/02/20 13:13	
Bromobenzene	ug/L	ND	1.0	09/02/20 13:13	
Bromochloromethane	ug/L	ND	1.0	09/02/20 13:13	
Bromodichloromethane	ug/L	ND	1.0	09/02/20 13:13	
Bromoform	ug/L	ND	1.0	09/02/20 13:13	
Bromomethane	ug/L	ND	2.0	09/02/20 13:13	
Carbon tetrachloride	ug/L	ND	1.0	09/02/20 13:13	
Chlorobenzene	ug/L	ND	1.0	09/02/20 13:13	
Chloroethane	ug/L	ND	1.0	09/02/20 13:13	
Chloroform	ug/L	ND	5.0	09/02/20 13:13	
Chloromethane	ug/L	ND	1.0	09/02/20 13:13	v2
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/02/20 13:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/02/20 13:13	
Dibromochloromethane	ug/L	ND	1.0	09/02/20 13:13	
Dibromomethane	ug/L	ND	1.0	09/02/20 13:13	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

METHOD BLANK: 2989873 Matrix: Water

Associated Lab Samples: 92492740002, 92492740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	09/02/20 13:13	v2
Diisopropyl ether	ug/L	ND	1.0	09/02/20 13:13	
Ethylbenzene	ug/L	ND	1.0	09/02/20 13:13	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/02/20 13:13	
m&p-Xylene	ug/L	ND	2.0	09/02/20 13:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/02/20 13:13	
Methylene Chloride	ug/L	ND	5.0	09/02/20 13:13	
Naphthalene	ug/L	ND	1.0	09/02/20 13:13	
o-Xylene	ug/L	ND	1.0	09/02/20 13:13	
p-Isopropyltoluene	ug/L	ND	1.0	09/02/20 13:13	
Styrene	ug/L	ND	1.0	09/02/20 13:13	
Tetrachloroethene	ug/L	ND	1.0	09/02/20 13:13	
Toluene	ug/L	ND	1.0	09/02/20 13:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/02/20 13:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/02/20 13:13	
Trichloroethene	ug/L	ND	1.0	09/02/20 13:13	
Trichlorofluoromethane	ug/L	ND	1.0	09/02/20 13:13	
Vinyl acetate	ug/L	ND	2.0	09/02/20 13:13	
Vinyl chloride	ug/L	ND	1.0	09/02/20 13:13	v2
Xylene (Total)	ug/L	ND	1.0	09/02/20 13:13	
1,2-Dichloroethane-d4 (S)	%	123	70-130	09/02/20 13:13	
4-Bromofluorobenzene (S)	%	100	70-130	09/02/20 13:13	
Toluene-d8 (S)	%	100	70-130	09/02/20 13:13	

LABORATORY CONTROL SAMPLE: 2989874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.3	93	70-130	
1,1,1-Trichloroethane	ug/L	50	44.9	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	70-130	
1,1,2-Trichloroethane	ug/L	50	44.9	90	70-130	
1,1-Dichloroethane	ug/L	50	45.4	91	70-130	
1,1-Dichloroethene	ug/L	50	52.0	104	70-130	
1,1-Dichloropropene	ug/L	50	45.1	90	70-130	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	70-130	
1,2,3-Trichloropropane	ug/L	50	53.4	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	44.6	89	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.7	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	46.4	93	70-130	
1,2-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
1,2-Dichloropropane	ug/L	50	47.0	94	70-130	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,3-Dichloropropane	ug/L	50	50.4	101	70-131	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2989874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	47.0	94	70-130	
2,2-Dichloropropane	ug/L	50	47.4	95	69-130	
2-Butanone (MEK)	ug/L	100	97.4	97	64-135	
2-Chlorotoluene	ug/L	50	47.8	96	70-130	
2-Hexanone	ug/L	100	110	110	66-135	
4-Chlorotoluene	ug/L	50	48.5	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-130	
Acetone	ug/L	100	116	116	61-157	
Benzene	ug/L	50	48.8	98	70-130	
Bromobenzene	ug/L	50	46.8	94	70-130	
Bromochloromethane	ug/L	50	46.2	92	70-130	
Bromodichloromethane	ug/L	50	43.1	86	70-130	
Bromoform	ug/L	50	43.9	88	70-130	
Bromomethane	ug/L	50	46.3	93	38-130	
Carbon tetrachloride	ug/L	50	44.4	89	70-130	
Chlorobenzene	ug/L	50	48.5	97	70-130	
Chloroethane	ug/L	50	49.9	100	37-142	
Chloroform	ug/L	50	48.0	96	70-130	
Chloromethane	ug/L	50	32.4	65	48-130 v3	
cis-1,2-Dichloroethene	ug/L	50	47.6	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	
Dibromochloromethane	ug/L	50	44.1	88	70-130	
Dibromomethane	ug/L	50	46.0	92	70-130	
Dichlorodifluoromethane	ug/L	50	37.3	75	53-134 v3	
Diisopropyl ether	ug/L	50	47.9	96	70-135	
Ethylbenzene	ug/L	50	49.8	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	42.7	85	68-132	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	49.8	100	70-130	
Methylene Chloride	ug/L	50	49.0	98	67-132	
Naphthalene	ug/L	50	43.6	87	70-130	
o-Xylene	ug/L	50	49.0	98	70-131	
p-Isopropyltoluene	ug/L	50	45.4	91	70-130	
Styrene	ug/L	50	49.9	100	70-130	
Tetrachloroethene	ug/L	50	46.0	92	69-130	
Toluene	ug/L	50	47.3	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.9	94	70-130	
Trichloroethene	ug/L	50	44.1	88	70-130	
Trichlorofluoromethane	ug/L	50	51.9	104	63-130	
Vinyl acetate	ug/L	100	107	107	55-143	
Vinyl chloride	ug/L	50	36.6	73	70-131 v3	
Xylene (Total)	ug/L	150	149	100	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

Parameter	92492679020		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	421	421	105	105	73-134	0				
1,1,1-Trichloroethane	ug/L	ND	400	400	399	399	100	100	82-143	0				
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	402	100	100	70-136	0				
1,1,2-Trichloroethane	ug/L	ND	400	400	399	399	100	100	70-135	0				
1,1-Dichloroethane	ug/L	ND	400	400	394	394	99	99	70-139	0				
1,1-Dichloroethene	ug/L	ND	400	400	388	388	97	97	70-154	0				
1,1-Dichloropropene	ug/L	ND	400	400	413	413	103	103	70-149	0				
1,2,3-Trichlorobenzene	ug/L	ND	400	400	419	419	105	105	70-135	0				
1,2,3-Trichloropropane	ug/L	ND	400	400	401	401	100	100	71-137	0				
1,2,4-Trichlorobenzene	ug/L	ND	400	400	423	423	106	106	73-140	0				
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	409	409	102	102	65-134	0				
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	407	407	102	102	70-137	0				
1,2-Dichlorobenzene	ug/L	ND	400	400	421	421	105	105	70-133	0				
1,2-Dichloroethane	ug/L	ND	400	400	395	395	99	99	70-137	0				
1,2-Dichloropropane	ug/L	ND	400	400	409	409	102	102	70-140	0				
1,3-Dichlorobenzene	ug/L	ND	400	400	427	427	107	107	70-135	0				
1,3-Dichloropropane	ug/L	ND	400	400	408	408	102	102	70-143	0				
1,4-Dichlorobenzene	ug/L	ND	400	400	423	423	106	106	70-133	0				
2,2-Dichloropropane	ug/L	ND	400	400	406	406	101	101	61-148	0				
2-Butanone (MEK)	ug/L	ND	800	800	842	842	101	101	60-139	0				
2-Chlorotoluene	ug/L	ND	400	400	440	440	110	110	70-144	0				
2-Hexanone	ug/L	ND	800	800	741	741	93	93	65-138	0 v3				
4-Chlorotoluene	ug/L	ND	400	400	415	415	104	104	70-137	0				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	800	800	776	776	97	97	65-135	0				
Acetone	ug/L	ND	800	800	814	814	102	102	60-148	0				
Benzene	ug/L	437	400	400	785	785	87	87	70-151	0				
Bromobenzene	ug/L	ND	400	400	410	410	103	103	70-136	0				
Bromochloromethane	ug/L	ND	400	400	394	394	99	99	70-141	0				
Bromodichloromethane	ug/L	ND	400	400	354	354	88	88	70-138	0				
Bromoform	ug/L	ND	400	400	395	395	99	99	63-130	0				
Bromomethane	ug/L	ND	400	400	524	524	131	131	15-152	0				
Carbon tetrachloride	ug/L	ND	400	400	409	409	102	102	70-143	0				
Chlorobenzene	ug/L	ND	400	400	423	423	106	106	70-138	0				
Chloroethane	ug/L	ND	400	400	354	354	89	89	52-163	0				
Chloroform	ug/L	ND	400	400	397	397	99	99	70-139	0				
Chloromethane	ug/L	ND	400	400	252	252	63	63	41-139	0				
cis-1,2-Dichloroethene	ug/L	ND	400	400	395	395	99	99	70-141	0				
cis-1,3-Dichloropropene	ug/L	ND	400	400	409	409	102	102	70-137	0				
Dibromochloromethane	ug/L	ND	400	400	404	404	101	101	70-134	0				
Dibromomethane	ug/L	ND	400	400	406	406	102	102	70-138	0				
Dichlorodifluoromethane	ug/L	ND	400	400	214	214	53	53	47-155	0				
Diisopropyl ether	ug/L	45.5	400	400	426	426	95	95	63-144	0				
Ethylbenzene	ug/L	24.4	400	400	437	437	103	103	66-153	0				
Hexachloro-1,3-butadiene	ug/L	ND	400	400	442	442	111	111	65-149	0				
m&p-Xylene	ug/L	325	800	800	1120	1120	100	100	69-152	0				
Methyl-tert-butyl ether	ug/L	3620	400	400	3390	3390	-57	-57	54-156	0 M1				

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**QUALITY CONTROL DATA**

Project: 473A  
Pace Project No.: 92492740

Parameter	92492679020		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Methylene Chloride	ug/L	ND	400	400	397	397	88	88	42-159	0				
Naphthalene	ug/L	49.3	400	400	440	440	98	98	61-148	0				
o-Xylene	ug/L	324	400	400	726	726	100	100	70-148	0				
p-Isopropyltoluene	ug/L	ND	400	400	421	421	105	105	70-146	0				
Styrene	ug/L	ND	400	400	429	429	107	107	70-135	0				
Tetrachloroethene	ug/L	ND	400	400	425	425	106	106	59-143	0				
Toluene	ug/L	ND	400	400	418	418	101	101	59-148	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	397	397	99	99	70-146	0				
trans-1,3-Dichloropropene	ug/L	ND	400	400	400	400	100	100	70-135	0				
Trichloroethene	ug/L	ND	400	400	430	430	108	108	70-147	0				
Trichlorofluoromethane	ug/L	ND	400	400	355	355	89	89	70-148	0				
Vinyl acetate	ug/L	ND	800	800	822	822	103	103	49-151	0				
Vinyl chloride	ug/L	ND	400	400	286	286	72	72	70-156	0				
Xylene (Total)	ug/L	649	1200	1200	1850	1850	100	100	63-158	0				
1,2-Dichloroethane-d4 (S)	%						99	99	70-130					
4-Bromofluorobenzene (S)	%						100	100	70-130					
Toluene-d8 (S)	%						99	99	70-130					

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

QC Batch: 563626	Analysis Method: EPA 8270E
QC Batch Method: EPA 3510C	Analysis Description: 8270E Water MSSV RVE
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492740002, 92492740004

METHOD BLANK: 2988273 Matrix: Water

Associated Lab Samples: 92492740002, 92492740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	08/31/20 12:41	
1,2-Dichlorobenzene	ug/L	ND	10.0	08/31/20 12:41	
1,3-Dichlorobenzene	ug/L	ND	10.0	08/31/20 12:41	
1,4-Dichlorobenzene	ug/L	ND	10.0	08/31/20 12:41	
1-Methylnaphthalene	ug/L	ND	10.0	08/31/20 12:41	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	08/31/20 12:41	
2,4,5-Trichlorophenol	ug/L	ND	10.0	08/31/20 12:41	
2,4,6-Trichlorophenol	ug/L	ND	10.0	08/31/20 12:41	
2,4-Dichlorophenol	ug/L	ND	10.0	08/31/20 12:41	
2,4-Dimethylphenol	ug/L	ND	10.0	08/31/20 12:41	
2,4-Dinitrophenol	ug/L	ND	50.0	08/31/20 12:41	
2,4-Dinitrotoluene	ug/L	ND	10.0	08/31/20 12:41	
2,6-Dinitrotoluene	ug/L	ND	10.0	08/31/20 12:41	
2-Chloronaphthalene	ug/L	ND	10.0	08/31/20 12:41	
2-Chlorophenol	ug/L	ND	10.0	08/31/20 12:41	
2-Methylnaphthalene	ug/L	ND	10.0	08/31/20 12:41	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	08/31/20 12:41	
2-Nitroaniline	ug/L	ND	20.0	08/31/20 12:41	
2-Nitrophenol	ug/L	ND	10.0	08/31/20 12:41	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	08/31/20 12:41	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	08/31/20 12:41	
3-Nitroaniline	ug/L	ND	20.0	08/31/20 12:41	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	08/31/20 12:41	
4-Bromophenylphenyl ether	ug/L	ND	10.0	08/31/20 12:41	
4-Chloro-3-methylphenol	ug/L	ND	10.0	08/31/20 12:41	
4-Chloroaniline	ug/L	ND	20.0	08/31/20 12:41	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	08/31/20 12:41	
4-Nitroaniline	ug/L	ND	20.0	08/31/20 12:41	
4-Nitrophenol	ug/L	ND	50.0	08/31/20 12:41	
Acenaphthene	ug/L	ND	10.0	08/31/20 12:41	
Acenaphthylene	ug/L	ND	10.0	08/31/20 12:41	
Aniline	ug/L	ND	10.0	08/31/20 12:41	
Anthracene	ug/L	ND	10.0	08/31/20 12:41	
Benzo(a)anthracene	ug/L	ND	10.0	08/31/20 12:41	
Benzo(a)pyrene	ug/L	ND	10.0	08/31/20 12:41	
Benzo(b)fluoranthene	ug/L	ND	10.0	08/31/20 12:41	
Benzo(g,h,i)perylene	ug/L	ND	10.0	08/31/20 12:41	
Benzo(k)fluoranthene	ug/L	ND	10.0	08/31/20 12:41	
Benzoic Acid	ug/L	ND	50.0	08/31/20 12:41	
Benzyl alcohol	ug/L	ND	20.0	08/31/20 12:41	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

METHOD BLANK: 2988273 Matrix: Water  
Associated Lab Samples: 92492740002, 92492740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	08/31/20 12:41	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	08/31/20 12:41	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	08/31/20 12:41	
Butylbenzylphthalate	ug/L	ND	10.0	08/31/20 12:41	
Chrysene	ug/L	ND	10.0	08/31/20 12:41	
Di-n-butylphthalate	ug/L	ND	10.0	08/31/20 12:41	
Di-n-octylphthalate	ug/L	ND	10.0	08/31/20 12:41	
Dibenz(a,h)anthracene	ug/L	ND	10.0	08/31/20 12:41	
Dibenzofuran	ug/L	ND	10.0	08/31/20 12:41	
Diethylphthalate	ug/L	ND	10.0	08/31/20 12:41	
Dimethylphthalate	ug/L	ND	10.0	08/31/20 12:41	
Fluoranthene	ug/L	ND	10.0	08/31/20 12:41	
Fluorene	ug/L	ND	10.0	08/31/20 12:41	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	08/31/20 12:41	
Hexachlorobenzene	ug/L	ND	10.0	08/31/20 12:41	
Hexachlorocyclopentadiene	ug/L	ND	10.0	08/31/20 12:41	
Hexachloroethane	ug/L	ND	10.0	08/31/20 12:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	08/31/20 12:41	
Isophorone	ug/L	ND	10.0	08/31/20 12:41	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	08/31/20 12:41	
N-Nitrosodimethylamine	ug/L	ND	10.0	08/31/20 12:41	
N-Nitrosodiphenylamine	ug/L	ND	10.0	08/31/20 12:41	
Naphthalene	ug/L	ND	10.0	08/31/20 12:41	
Nitrobenzene	ug/L	ND	10.0	08/31/20 12:41	
Pentachlorophenol	ug/L	ND	20.0	08/31/20 12:41	
Phenanthrene	ug/L	ND	10.0	08/31/20 12:41	
Phenol	ug/L	ND	10.0	08/31/20 12:41	
Pyrene	ug/L	ND	10.0	08/31/20 12:41	
2,4,6-Tribromophenol (S)	%	77	10-137	08/31/20 12:41	
2-Fluorobiphenyl (S)	%	70	13-130	08/31/20 12:41	
2-Fluorophenol (S)	%	69	10-130	08/31/20 12:41	
Nitrobenzene-d5 (S)	%	78	13-130	08/31/20 12:41	
Phenol-d6 (S)	%	54	10-130	08/31/20 12:41	
Terphenyl-d14 (S)	%	107	25-130	08/31/20 12:41	

LABORATORY CONTROL SAMPLE: 2988274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	28.1	56	30-130	
1,2-Dichlorobenzene	ug/L	50	28.4	57	30-130	
1,3-Dichlorobenzene	ug/L	50	26.7	53	20-130	
1,4-Dichlorobenzene	ug/L	50	28.5	57	30-130	
1-Methylnaphthalene	ug/L	50	29.7	59	30-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	40.7	81	20-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2988274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	50	36.4	73	40-130	
2,4,6-Trichlorophenol	ug/L	50	36.1	72	40-130	
2,4-Dichlorophenol	ug/L	50	35.4	71	31-130	
2,4-Dimethylphenol	ug/L	50	38.0	76	30-130	
2,4-Dinitrophenol	ug/L	250	161	64	30-130	
2,4-Dinitrotoluene	ug/L	50	38.1	76	49-130	
2,6-Dinitrotoluene	ug/L	50	37.4	75	50-130	
2-Chloronaphthalene	ug/L	50	33.1	66	30-130	
2-Chlorophenol	ug/L	50	33.7	67	30-130	
2-Methylnaphthalene	ug/L	50	30.4	61	30-130	
2-Methylphenol(o-Cresol)	ug/L	50	32.1	64	30-130	
2-Nitroaniline	ug/L	100	70.4	70	40-130	
2-Nitrophenol	ug/L	50	36.2	72	20-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.1	62	20-130	
3,3'-Dichlorobenzidine	ug/L	100	64.2	64	10-150	
3-Nitroaniline	ug/L	100	69.5	69	40-130	
4,6-Dinitro-2-methylphenol	ug/L	100	70.2	70	40-130	
4-Bromophenylphenyl ether	ug/L	50	34.9	70	30-130	
4-Chloro-3-methylphenol	ug/L	100	68.2	68	30-130	
4-Chloroaniline	ug/L	100	63.8	64	20-130	
4-Chlorophenylphenyl ether	ug/L	50	33.9	68	20-130	
4-Nitroaniline	ug/L	100	73.1	73	40-130	
4-Nitrophenol	ug/L	250	105	42	10-130	
Acenaphthene	ug/L	50	33.5	67	30-130	
Acenaphthylene	ug/L	50	34.3	69	30-130	
Aniline	ug/L	50	28.0	56	20-130	
Anthracene	ug/L	50	31.4	63	50-130	
Benzo(a)anthracene	ug/L	50	34.8	70	50-130	
Benzo(a)pyrene	ug/L	50	36.0	72	50-130	
Benzo(b)fluoranthene	ug/L	50	36.1	72	50-130	
Benzo(g,h,i)perylene	ug/L	50	34.5	69	50-130	
Benzo(k)fluoranthene	ug/L	50	36.6	73	50-130	
Benzoic Acid	ug/L	250	83.0	33	10-130	
Benzyl alcohol	ug/L	100	63.0	63	20-130	
bis(2-Chloroethoxy)methane	ug/L	50	34.3	69	30-130	
bis(2-Chloroethyl) ether	ug/L	50	36.0	72	30-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	38.1	76	50-130	
Butylbenzylphthalate	ug/L	50	37.9	76	50-150	
Chrysene	ug/L	50	35.3	71	50-130	
Di-n-butylphthalate	ug/L	50	37.8	76	50-130	
Di-n-octylphthalate	ug/L	50	36.6	73	50-130	
Dibenz(a,h)anthracene	ug/L	50	34.7	69	40-130	
Dibenzofuran	ug/L	50	34.5	69	40-130	
Diethylphthalate	ug/L	50	36.5	73	40-130	
Dimethylphthalate	ug/L	50	35.5	71	40-130	
Fluoranthene	ug/L	50	34.7	69	30-130	
Fluorene	ug/L	50	34.5	69	20-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2988274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	ug/L	50	24.6	49	10-130	
Hexachlorobenzene	ug/L	50	33.9	68	30-130	
Hexachlorocyclopentadiene	ug/L	50	26.9	54	10-150	
Hexachloroethane	ug/L	50	27.4	55	10-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	34.4	69	40-130	
Isophorone	ug/L	50	33.0	66	30-130	
N-Nitroso-di-n-propylamine	ug/L	50	33.0	66	30-130	
N-Nitrosodimethylamine	ug/L	50	31.0	62	10-130	
N-Nitrosodiphenylamine	ug/L	50	35.0	70	30-130	
Naphthalene	ug/L	50	31.3	63	20-130	
Nitrobenzene	ug/L	50	36.3	73	20-130	
Pentachlorophenol	ug/L	100	63.8	64	10-140	
Phenanthrene	ug/L	50	34.2	68	50-130	
Phenol	ug/L	50	21.6	43	10-130	
Pyrene	ug/L	50	34.3	69	50-130	
2,4,6-Tribromophenol (S)	%			79	10-137	
2-Fluorobiphenyl (S)	%			71	13-130	
2-Fluorophenol (S)	%			53	10-130	
Nitrobenzene-d5 (S)	%			78	13-130	
Phenol-d6 (S)	%			38	10-130	
Terphenyl-d14 (S)	%			90	25-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988275 2988276

Parameter	92484369018		MS	MSD	MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,2,4-Trichlorobenzene	ug/L	ND	50	50	34.2	34.2	68	68	30-130	0	
1,2-Dichlorobenzene	ug/L	ND	50	50	33.1	33.9	66	68	30-130	2	
1,3-Dichlorobenzene	ug/L	ND	50	50	31.1	32.1	62	64	20-130	3	
1,4-Dichlorobenzene	ug/L	ND	50	50	33.8	34.5	68	69	30-130	2	
1-Methylnaphthalene	ug/L	ND	50	50	37.4	36.4	75	73	30-130	3	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	49.5	46.4	99	93	20-130	6	
2,4,5-Trichlorophenol	ug/L	ND	50	50	44.8	45.4	90	91	40-130	1	
2,4,6-Trichlorophenol	ug/L	ND	50	50	44.3	44.9	89	90	40-130	1	
2,4-Dichlorophenol	ug/L	ND	50	50	42.9	43.8	86	88	31-130	2	
2,4-Dimethylphenol	ug/L	ND	50	50	45.5	47.0	91	94	30-130	3	
2,4-Dinitrophenol	ug/L	ND	250	250	195	212	78	85	30-130	8	
2,4-Dinitrotoluene	ug/L	ND	50	50	48.3	46.8	97	94	49-130	3	
2,6-Dinitrotoluene	ug/L	ND	50	50	47.0	45.8	94	92	50-130	3	
2-Chloronaphthalene	ug/L	ND	50	50	41.8	40.5	84	81	30-130	3	
2-Chlorophenol	ug/L	ND	50	50	41.1	44.6	82	89	30-130	8	
2-Methylnaphthalene	ug/L	ND	50	50	38.9	37.6	78	75	30-130	4	
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	37.2	43.2	74	86	30-130	15	
2-Nitroaniline	ug/L	ND	100	100	88.9	85.5	89	85	40-130	4	
2-Nitrophenol	ug/L	ND	50	50	44.8	45.1	90	90	20-130	1	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

Parameter	2988275		2988276								
	92484369018	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	35.1	43.6	70	87	20-130	22	
3,3'-Dichlorobenzidine	ug/L	ND	100	100	80.4	73.3	80	73	10-150	9	
3-Nitroaniline	ug/L	ND	100	100	88.7	84.2	89	84	40-130	5	
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	87.8	88.4	88	88	40-130	1	
4-Bromophenylphenyl ether	ug/L	ND	50	50	42.6	43.0	85	86	30-130	1	
4-Chloro-3-methylphenol	ug/L	ND	100	100	83.0	87.5	83	87	30-130	5	
4-Chloroaniline	ug/L	ND	100	100	79.7	74.7	80	75	20-130	6	
4-Chlorophenylphenyl ether	ug/L	ND	50	50	43.1	40.8	86	82	20-130	5	
4-Nitroaniline	ug/L	ND	100	100	92.6	87.4	93	87	40-130	6	
4-Nitrophenol	ug/L	ND	250	250	113	162	45	65	10-130	35	R1
Acenaphthene	ug/L	ND	50	50	42.0	40.5	84	81	30-130	4	
Acenaphthylene	ug/L	ND	50	50	43.0	41.5	86	83	30-130	4	
Aniline	ug/L	ND	50	50	35.2	31.6	70	63	20-130	11	
Anthracene	ug/L	ND	50	50	38.3	37.2	77	74	50-130	3	
Benzo(a)anthracene	ug/L	ND	50	50	42.8	41.5	86	83	50-130	3	
Benzo(a)pyrene	ug/L	ND	50	50	44.2	43.1	88	86	50-130	3	
Benzo(b)fluoranthene	ug/L	ND	50	50	43.4	43.4	87	87	50-130	0	
Benzo(g,h,i)perylene	ug/L	ND	50	50	41.5	40.6	83	81	50-130	2	
Benzo(k)fluoranthene	ug/L	ND	50	50	45.9	43.5	92	87	50-130	5	
Benzoic Acid	ug/L	ND	250	250	23.4J	104	9	42	10-130		M1
Benzyl alcohol	ug/L	ND	100	100	74.0	75.9	74	76	20-130	3	
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	42.0	40.7	84	81	30-130	3	
bis(2-Chloroethyl) ether	ug/L	ND	50	50	44.2	42.9	88	86	30-130	3	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	46.4	45.7	93	91	50-130	2	
Butylbenzylphthalate	ug/L	ND	50	50	46.8	46.1	94	92	50-150	2	
Chrysene	ug/L	ND	50	50	42.4	41.6	85	83	50-130	2	
Di-n-butylphthalate	ug/L	ND	50	50	46.3	45.5	93	91	50-130	2	
Di-n-octylphthalate	ug/L	ND	50	50	44.9	44.0	90	88	50-130	2	
Dibenz(a,h)anthracene	ug/L	ND	50	50	42.5	41.1	85	82	40-130	3	
Dibenzofuran	ug/L	ND	50	50	42.8	41.5	86	83	40-130	3	
Diethylphthalate	ug/L	ND	50	50	45.4	44.0	91	88	40-130	3	
Dimethylphthalate	ug/L	ND	50	50	44.3	42.8	89	86	40-130	4	
Fluoranthene	ug/L	ND	50	50	42.4	41.3	85	83	30-130	2	
Fluorene	ug/L	ND	50	50	43.4	41.4	87	83	20-130	5	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	30.0	31.3	60	63	10-130	4	
Hexachlorobenzene	ug/L	ND	50	50	41.9	41.7	84	83	30-130	0	
Hexachlorocyclopentadiene	ug/L	ND	50	50	34.4	34.9	69	70	10-150	1	
Hexachloroethane	ug/L	ND	50	50	31.6	33.1	63	66	10-130	5	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50	42.3	41.4	85	83	40-130	2	
Isophorone	ug/L	ND	50	50	42.1	40.6	84	81	30-130	4	
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	41.4	40.3	83	81	30-130	3	
N-Nitrosodimethylamine	ug/L	ND	50	50	34.5	35.3	69	71	10-130	2	
N-Nitrosodiphenylamine	ug/L	ND	50	50	43.0	42.5	86	85	30-130	1	
Naphthalene	ug/L	ND	50	50	37.6	36.6	75	73	20-130	3	
Nitrobenzene	ug/L	ND	50	50	44.1	42.9	88	86	20-130	3	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988275			2988276			MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	92484369018 Units	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
Pentachlorophenol	ug/L	ND	100	100	80.0	84.9	80	85	10-140	6	
Phenanthrene	ug/L	ND	50	50	41.7	40.9	83	82	50-130	2	
Phenol	ug/L	ND	50	50	23.1	35.6	46	71	10-130	43	R1
Pyrene	ug/L	ND	50	50	43.0	41.8	86	84	50-130	3	
2,4,6-Tribromophenol (S)	%						96	97	10-137		
2-Fluorobiphenyl (S)	%						85	78	13-130		
2-Fluorophenol (S)	%						56	76	10-130		
Nitrobenzene-d5 (S)	%						90	84	13-130		
Phenol-d6 (S)	%						37	62	10-130		
Terphenyl-d14 (S)	%						108	101	25-130		

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### QUALITY CONTROL DATA

Project: 473A  
 Pace Project No.: 92492740

QC Batch: 563393	Analysis Method: EPA 8270E
QC Batch Method: EPA 3546	Analysis Description: 8270E Solid MSSV Microwave
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492740001

METHOD BLANK: 2987250 Matrix: Solid

Associated Lab Samples: 92492740001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	325	09/01/20 09:51	
1,2-Dichlorobenzene	ug/kg	ND	325	09/01/20 09:51	
1,3-Dichlorobenzene	ug/kg	ND	325	09/01/20 09:51	
1,4-Dichlorobenzene	ug/kg	ND	325	09/01/20 09:51	
1-Methylnaphthalene	ug/kg	ND	325	09/01/20 09:51	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	325	09/01/20 09:51	
2,4,5-Trichlorophenol	ug/kg	ND	325	09/01/20 09:51	
2,4,6-Trichlorophenol	ug/kg	ND	325	09/01/20 09:51	
2,4-Dichlorophenol	ug/kg	ND	325	09/01/20 09:51	
2,4-Dimethylphenol	ug/kg	ND	325	09/01/20 09:51	
2,4-Dinitrophenol	ug/kg	ND	1620	09/01/20 09:51	
2,4-Dinitrotoluene	ug/kg	ND	325	09/01/20 09:51	
2,6-Dinitrotoluene	ug/kg	ND	325	09/01/20 09:51	
2-Chloronaphthalene	ug/kg	ND	325	09/01/20 09:51	
2-Chlorophenol	ug/kg	ND	325	09/01/20 09:51	
2-Methylnaphthalene	ug/kg	ND	325	09/01/20 09:51	
2-Methylphenol(o-Cresol)	ug/kg	ND	325	09/01/20 09:51	
2-Nitroaniline	ug/kg	ND	1620	09/01/20 09:51	v2
2-Nitrophenol	ug/kg	ND	325	09/01/20 09:51	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	325	09/01/20 09:51	
3,3'-Dichlorobenzidine	ug/kg	ND	649	09/01/20 09:51	
3-Nitroaniline	ug/kg	ND	1620	09/01/20 09:51	
4,6-Dinitro-2-methylphenol	ug/kg	ND	649	09/01/20 09:51	
4-Bromophenylphenyl ether	ug/kg	ND	325	09/01/20 09:51	
4-Chloro-3-methylphenol	ug/kg	ND	649	09/01/20 09:51	
4-Chloroaniline	ug/kg	ND	649	09/01/20 09:51	
4-Chlorophenylphenyl ether	ug/kg	ND	325	09/01/20 09:51	
4-Nitroaniline	ug/kg	ND	649	09/01/20 09:51	
4-Nitrophenol	ug/kg	ND	1620	09/01/20 09:51	
Acenaphthene	ug/kg	ND	325	09/01/20 09:51	
Acenaphthylene	ug/kg	ND	325	09/01/20 09:51	
Aniline	ug/kg	ND	325	09/01/20 09:51	
Anthracene	ug/kg	ND	325	09/01/20 09:51	
Benzo(a)anthracene	ug/kg	ND	325	09/01/20 09:51	
Benzo(a)pyrene	ug/kg	ND	325	09/01/20 09:51	
Benzo(b)fluoranthene	ug/kg	ND	325	09/01/20 09:51	
Benzo(g,h,i)perylene	ug/kg	ND	325	09/01/20 09:51	v1
Benzo(k)fluoranthene	ug/kg	ND	325	09/01/20 09:51	
Benzoic Acid	ug/kg	ND	1620	09/01/20 09:51	
Benzyl alcohol	ug/kg	ND	649	09/01/20 09:51	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

METHOD BLANK: 2987250 Matrix: Solid  
Associated Lab Samples: 92492740001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	ND	325	09/01/20 09:51	
bis(2-Chloroethyl) ether	ug/kg	ND	325	09/01/20 09:51	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	325	09/01/20 09:51	
Butylbenzylphthalate	ug/kg	ND	325	09/01/20 09:51	
Chrysene	ug/kg	ND	325	09/01/20 09:51	
Di-n-butylphthalate	ug/kg	ND	325	09/01/20 09:51	
Di-n-octylphthalate	ug/kg	ND	325	09/01/20 09:51	
Dibenz(a,h)anthracene	ug/kg	ND	325	09/01/20 09:51	v1
Dibenzofuran	ug/kg	ND	325	09/01/20 09:51	
Diethylphthalate	ug/kg	ND	325	09/01/20 09:51	
Dimethylphthalate	ug/kg	ND	325	09/01/20 09:51	
Fluoranthene	ug/kg	ND	325	09/01/20 09:51	
Fluorene	ug/kg	ND	325	09/01/20 09:51	
Hexachloro-1,3-butadiene	ug/kg	ND	325	09/01/20 09:51	
Hexachlorobenzene	ug/kg	ND	325	09/01/20 09:51	
Hexachlorocyclopentadiene	ug/kg	ND	325	09/01/20 09:51	
Hexachloroethane	ug/kg	ND	325	09/01/20 09:51	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	325	09/01/20 09:51	v1
Isophorone	ug/kg	ND	325	09/01/20 09:51	
N-Nitroso-di-n-propylamine	ug/kg	ND	325	09/01/20 09:51	
N-Nitrosodimethylamine	ug/kg	ND	325	09/01/20 09:51	
N-Nitrosodiphenylamine	ug/kg	ND	325	09/01/20 09:51	
Naphthalene	ug/kg	ND	325	09/01/20 09:51	
Nitrobenzene	ug/kg	ND	325	09/01/20 09:51	
Pentachlorophenol	ug/kg	ND	649	09/01/20 09:51	
Phenanthrene	ug/kg	ND	325	09/01/20 09:51	
Phenol	ug/kg	ND	325	09/01/20 09:51	
Pyrene	ug/kg	ND	325	09/01/20 09:51	
Pyridine	ug/kg	ND	325	09/01/20 09:51	
2,4,6-Tribromophenol (S)	%	67	27-110	09/01/20 09:51	
2-Fluorobiphenyl (S)	%	60	30-110	09/01/20 09:51	
2-Fluorophenol (S)	%	62	13-110	09/01/20 09:51	
Nitrobenzene-d5 (S)	%	53	23-110	09/01/20 09:51	
Phenol-d6 (S)	%	63	22-110	09/01/20 09:51	
Terphenyl-d14 (S)	%	74	28-110	09/01/20 09:51	

LABORATORY CONTROL SAMPLE: 2987251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1640	1120	68	52-130	
1,2-Dichlorobenzene	ug/kg	1640	1140	69	51-130	
1,3-Dichlorobenzene	ug/kg	1640	1130	69	50-130	
1,4-Dichlorobenzene	ug/kg	1640	1180	72	49-130	
1-Methylnaphthalene	ug/kg	1640	1090	66	55-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2987251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/kg	1640	882	54	30-130	
2,4,5-Trichlorophenol	ug/kg	1640	1140	69	55-130	
2,4,6-Trichlorophenol	ug/kg	1640	1060	64	57-130	
2,4-Dichlorophenol	ug/kg	1640	1230	75	56-130	
2,4-Dimethylphenol	ug/kg	1640	1100	67	51-130	
2,4-Dinitrophenol	ug/kg	8220	4440	54	27-133	
2,4-Dinitrotoluene	ug/kg	1640	1200	73	61-130	
2,6-Dinitrotoluene	ug/kg	1640	1200	73	60-130	
2-Chloronaphthalene	ug/kg	1640	1050	64	52-130	
2-Chlorophenol	ug/kg	1640	1260	76	54-130	
2-Methylnaphthalene	ug/kg	1640	1140	69	54-130	
2-Methylphenol(o-Cresol)	ug/kg	1640	1210	74	51-130	
2-Nitroaniline	ug/kg	3290	1640	50	51-130	L2,v3
2-Nitrophenol	ug/kg	1640	1170	71	49-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	1640	1170	71	11-163	
3,3'-Dichlorobenzidine	ug/kg	3290	2010	61	10-132	
3-Nitroaniline	ug/kg	3290	1930	59	55-130	
4,6-Dinitro-2-methylphenol	ug/kg	3290	1760	54	47-142	
4-Bromophenylphenyl ether	ug/kg	1640	1050	64	59-130	
4-Chloro-3-methylphenol	ug/kg	3290	2260	69	55-130	
4-Chloroaniline	ug/kg	3290	2290	70	54-130	
4-Chlorophenylphenyl ether	ug/kg	1640	1050	64	58-130	
4-Nitroaniline	ug/kg	3290	2100	64	54-130	
4-Nitrophenol	ug/kg	8220	4730	58	48-130	
Acenaphthene	ug/kg	1640	1030	62	60-130	
Acenaphthylene	ug/kg	1640	1070	65	60-130	
Aniline	ug/kg	1640	1060	65	43-130	
Anthracene	ug/kg	1640	966	59	63-130	L2
Benzo(a)anthracene	ug/kg	1640	1050	64	59-130	
Benzo(a)pyrene	ug/kg	1640	1070	65	57-130	
Benzo(b)fluoranthene	ug/kg	1640	1030	63	54-130	
Benzo(g,h,i)perylene	ug/kg	1640	1220	74	59-130	v1
Benzo(k)fluoranthene	ug/kg	1640	1040	63	54-130	
Benzoic Acid	ug/kg	8220	5310	65	19-130	
Benzyl alcohol	ug/kg	3290	2250	69	50-130	
bis(2-Chloroethoxy)methane	ug/kg	1640	1010	61	54-130	
bis(2-Chloroethyl) ether	ug/kg	1640	1070	65	48-130	
bis(2-Ethylhexyl)phthalate	ug/kg	1640	1010	61	45-134	
Butylbenzylphthalate	ug/kg	1640	984	60	46-138	
Chrysene	ug/kg	1640	1040	63	58-130	
Di-n-butylphthalate	ug/kg	1640	1130	69	60-130	
Di-n-octylphthalate	ug/kg	1640	1190	73	53-130	
Dibenz(a,h)anthracene	ug/kg	1640	1350	82	59-130	v1
Dibenzofuran	ug/kg	1640	1090	66	60-130	
Diethylphthalate	ug/kg	1640	1130	69	60-130	
Dimethylphthalate	ug/kg	1640	1140	69	60-130	
Fluoranthene	ug/kg	1640	1180	72	65-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2987251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1640	1030	63	63-130	
Hexachloro-1,3-butadiene	ug/kg	1640	1090	66	46-130	
Hexachlorobenzene	ug/kg	1640	1060	65	58-130	
Hexachlorocyclopentadiene	ug/kg	1640	712	43	23-130	
Hexachloroethane	ug/kg	1640	1060	64	47-130	
Indeno(1,2,3-cd)pyrene	ug/kg	1640	1220	74	60-130 v1	
Isophorone	ug/kg	1640	1010	61	49-130	
N-Nitroso-di-n-propylamine	ug/kg	1640	1010	61	47-130	
N-Nitrosodimethylamine	ug/kg	1640	911	55	45-130	
N-Nitrosodiphenylamine	ug/kg	1640	997	61	59-130	
Naphthalene	ug/kg	1640	1080	66	55-130	
Nitrobenzene	ug/kg	1640	908	55	49-130	
Pentachlorophenol	ug/kg	3290	1880	57	10-132	
Phenanthrene	ug/kg	1640	1060	65	62-130	
Phenol	ug/kg	1640	1190	72	46-130	
Pyrene	ug/kg	1640	957	58	53-130	
Pyridine	ug/kg	1640	858	52	37-130	
2,4,6-Tribromophenol (S)	%			77	27-110	
2-Fluorobiphenyl (S)	%			62	30-110	
2-Fluorophenol (S)	%			68	13-110	
Nitrobenzene-d5 (S)	%			56	23-110	
Phenol-d6 (S)	%			73	22-110	
Terphenyl-d14 (S)	%			68	28-110	

MATRIX SPIKE SAMPLE: 2987252

Parameter	Units	92492740001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	1770	981	55	18-130	
1,2-Dichlorobenzene	ug/kg	ND	1770	981	55	14-130	
1,3-Dichlorobenzene	ug/kg	ND	1770	973	55	12-130	
1,4-Dichlorobenzene	ug/kg	ND	1770	1020	58	10-130	
1-Methylnaphthalene	ug/kg	ND	1770	917	52	12-130	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	1770	751	42	10-130	
2,4,5-Trichlorophenol	ug/kg	ND	1770	1010	57	13-130	
2,4,6-Trichlorophenol	ug/kg	ND	1770	948	54	17-130	
2,4-Dichlorophenol	ug/kg	ND	1770	1030	58	10-130	
2,4-Dimethylphenol	ug/kg	ND	1770	930	53	10-130	
2,4-Dinitrophenol	ug/kg	ND	8860	3080	35	10-130	
2,4-Dinitrotoluene	ug/kg	ND	1770	1010	57	24-130	
2,6-Dinitrotoluene	ug/kg	ND	1770	1020	57	23-130	
2-Chloronaphthalene	ug/kg	ND	1770	914	52	19-130	
2-Chlorophenol	ug/kg	ND	1770	1060	60	10-130	
2-Methylnaphthalene	ug/kg	ND	1770	960	54	18-130	
2-Methylphenol(o-Cresol)	ug/kg	ND	1770	996	56	10-130	
2-Nitroaniline	ug/kg	ND	3550	1410J	40	17-130 v2	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

MATRIX SPIKE SAMPLE:	2987252	92492740001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
2-Nitrophenol	ug/kg	ND	1770	1030	58	10-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	1770	963	54	10-130	
3,3'-Dichlorobenzidine	ug/kg	ND	3550	1700	48	10-130	
3-Nitroaniline	ug/kg	ND	3550	1800	51	24-130	
4,6-Dinitro-2-methylphenol	ug/kg	ND	3550	1470	41	10-152	
4-Bromophenylphenyl ether	ug/kg	ND	1770	942	53	29-130	
4-Chloro-3-methylphenol	ug/kg	ND	3550	1930	54	17-130	
4-Chloroaniline	ug/kg	ND	3550	1880	53	14-130	
4-Chlorophenylphenyl ether	ug/kg	ND	1770	902	51	25-130	
4-Nitroaniline	ug/kg	ND	3550	1800	51	22-130	
4-Nitrophenol	ug/kg	ND	8860	3840	43	10-130	
Acenaphthene	ug/kg	ND	1770	880	50	20-130	
Acenaphthylene	ug/kg	ND	1770	919	52	25-130	
Aniline	ug/kg	ND	1770	829	47	10-130	
Anthracene	ug/kg	ND	1770	830	47	29-130	
Benzo(a)anthracene	ug/kg	ND	1770	882	50	19-130	
Benzo(a)pyrene	ug/kg	ND	1770	898	51	12-130	
Benzo(b)fluoranthene	ug/kg	ND	1770	882	50	14-130	
Benzo(g,h,i)perylene	ug/kg	ND	1770	972	55	10-130 v1	
Benzo(k)fluoranthene	ug/kg	ND	1770	888	50	14-130	
Benzoic Acid	ug/kg	ND	8860	2090	24	10-130	
Benzyl alcohol	ug/kg	ND	3550	1870	53	13-130	
bis(2-Chloroethoxy)methane	ug/kg	ND	1770	875	49	16-130	
bis(2-Chloroethyl) ether	ug/kg	ND	1770	914	52	11-130	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	1770	885	50	21-130	
Butylbenzylphthalate	ug/kg	ND	1770	863	49	23-130	
Chrysene	ug/kg	ND	1770	893	50	22-130	
Di-n-butylphthalate	ug/kg	ND	1770	961	54	30-130	
Di-n-octylphthalate	ug/kg	ND	1770	1000	57	23-142	
Dibenz(a,h)anthracene	ug/kg	ND	1770	1040	59	10-130 v1	
Dibenzofuran	ug/kg	ND	1770	943	53	24-130	
Diethylphthalate	ug/kg	ND	1770	970	55	26-130	
Dimethylphthalate	ug/kg	ND	1770	977	55	22-130	
Fluoranthene	ug/kg	ND	1770	983	56	33-130	
Fluorene	ug/kg	ND	1770	885	50	22-130	
Hexachloro-1,3-butadiene	ug/kg	ND	1770	947	53	13-130	
Hexachlorobenzene	ug/kg	ND	1770	934	53	29-130	
Hexachlorocyclopentadiene	ug/kg	ND	1770	622	35	10-130	
Hexachloroethane	ug/kg	ND	1770	914	52	10-130	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1770	976	55	10-130 v1	
Isophorone	ug/kg	ND	1770	854	48	13-130	
N-Nitroso-di-n-propylamine	ug/kg	ND	1770	820	46	12-130	
N-Nitrosodimethylamine	ug/kg	ND	1770	814	46	11-130	
N-Nitrosodiphenylamine	ug/kg	ND	1770	897	51	15-130	
Naphthalene	ug/kg	ND	1770	940	53	15-130	
Nitrobenzene	ug/kg	ND	1770	794	45	12-130	
Pentachlorophenol	ug/kg	ND	3550	1620	46	10-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

MATRIX SPIKE SAMPLE:		2987252					
Parameter	Units	92492740001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	ND	1770	922	52	27-130	
Phenol	ug/kg	ND	1770	965	54	10-130	
Pyrene	ug/kg	ND	1770	867	49	19-130	
Pyridine	ug/kg	ND	1770	717	40	10-130	
2,4,6-Tribromophenol (S)	%				56	27-110	
2-Fluorobiphenyl (S)	%				45	30-110	
2-Fluorophenol (S)	%				47	13-110	
Nitrobenzene-d5 (S)	%				41	23-110	
Phenol-d6 (S)	%				49	22-110	
Terphenyl-d14 (S)	%				51	28-110	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

QC Batch: 563787	Analysis Method: EPA 8270E
QC Batch Method: EPA 3546	Analysis Description: 8270E Solid MSSV Microwave
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492740003

METHOD BLANK: 2988883 Matrix: Solid

Associated Lab Samples: 92492740003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	326	09/02/20 09:03	
1,2-Dichlorobenzene	ug/kg	ND	326	09/02/20 09:03	
1,3-Dichlorobenzene	ug/kg	ND	326	09/02/20 09:03	
1,4-Dichlorobenzene	ug/kg	ND	326	09/02/20 09:03	
1-Methylnaphthalene	ug/kg	ND	326	09/02/20 09:03	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	326	09/02/20 09:03	v2
2,4,5-Trichlorophenol	ug/kg	ND	326	09/02/20 09:03	
2,4,6-Trichlorophenol	ug/kg	ND	326	09/02/20 09:03	
2,4-Dichlorophenol	ug/kg	ND	326	09/02/20 09:03	
2,4-Dimethylphenol	ug/kg	ND	326	09/02/20 09:03	
2,4-Dinitrophenol	ug/kg	ND	1630	09/02/20 09:03	
2,4-Dinitrotoluene	ug/kg	ND	326	09/02/20 09:03	
2,6-Dinitrotoluene	ug/kg	ND	326	09/02/20 09:03	
2-Chloronaphthalene	ug/kg	ND	326	09/02/20 09:03	
2-Chlorophenol	ug/kg	ND	326	09/02/20 09:03	
2-Methylnaphthalene	ug/kg	ND	326	09/02/20 09:03	
2-Methylphenol(o-Cresol)	ug/kg	ND	326	09/02/20 09:03	
2-Nitroaniline	ug/kg	ND	1630	09/02/20 09:03	v2
2-Nitrophenol	ug/kg	ND	326	09/02/20 09:03	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	326	09/02/20 09:03	
3,3'-Dichlorobenzidine	ug/kg	ND	651	09/02/20 09:03	
3-Nitroaniline	ug/kg	ND	1630	09/02/20 09:03	
4,6-Dinitro-2-methylphenol	ug/kg	ND	651	09/02/20 09:03	
4-Bromophenylphenyl ether	ug/kg	ND	326	09/02/20 09:03	
4-Chloro-3-methylphenol	ug/kg	ND	651	09/02/20 09:03	
4-Chloroaniline	ug/kg	ND	651	09/02/20 09:03	
4-Chlorophenylphenyl ether	ug/kg	ND	326	09/02/20 09:03	
4-Nitroaniline	ug/kg	ND	651	09/02/20 09:03	
4-Nitrophenol	ug/kg	ND	1630	09/02/20 09:03	
Acenaphthene	ug/kg	ND	326	09/02/20 09:03	
Acenaphthylene	ug/kg	ND	326	09/02/20 09:03	
Aniline	ug/kg	ND	326	09/02/20 09:03	
Anthracene	ug/kg	ND	326	09/02/20 09:03	
Benzo(a)anthracene	ug/kg	ND	326	09/02/20 09:03	
Benzo(a)pyrene	ug/kg	ND	326	09/02/20 09:03	
Benzo(b)fluoranthene	ug/kg	ND	326	09/02/20 09:03	
Benzo(g,h,i)perylene	ug/kg	ND	326	09/02/20 09:03	
Benzo(k)fluoranthene	ug/kg	ND	326	09/02/20 09:03	
Benzoic Acid	ug/kg	ND	1630	09/02/20 09:03	
Benzyl alcohol	ug/kg	ND	651	09/02/20 09:03	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

METHOD BLANK: 2988883 Matrix: Solid  
Associated Lab Samples: 92492740003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	ND	326	09/02/20 09:03	
bis(2-Chloroethyl) ether	ug/kg	ND	326	09/02/20 09:03	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	326	09/02/20 09:03	
Butylbenzylphthalate	ug/kg	ND	326	09/02/20 09:03	
Chrysene	ug/kg	ND	326	09/02/20 09:03	
Di-n-butylphthalate	ug/kg	ND	326	09/02/20 09:03	
Di-n-octylphthalate	ug/kg	ND	326	09/02/20 09:03	
Dibenz(a,h)anthracene	ug/kg	ND	326	09/02/20 09:03	v1
Dibenzofuran	ug/kg	ND	326	09/02/20 09:03	
Diethylphthalate	ug/kg	ND	326	09/02/20 09:03	
Dimethylphthalate	ug/kg	ND	326	09/02/20 09:03	
Fluoranthene	ug/kg	ND	326	09/02/20 09:03	
Fluorene	ug/kg	ND	326	09/02/20 09:03	
Hexachloro-1,3-butadiene	ug/kg	ND	326	09/02/20 09:03	
Hexachlorobenzene	ug/kg	ND	326	09/02/20 09:03	
Hexachlorocyclopentadiene	ug/kg	ND	326	09/02/20 09:03	v2
Hexachloroethane	ug/kg	ND	326	09/02/20 09:03	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	326	09/02/20 09:03	
Isophorone	ug/kg	ND	326	09/02/20 09:03	
N-Nitroso-di-n-propylamine	ug/kg	ND	326	09/02/20 09:03	
N-Nitrosodimethylamine	ug/kg	ND	326	09/02/20 09:03	
N-Nitrosodiphenylamine	ug/kg	ND	326	09/02/20 09:03	
Naphthalene	ug/kg	ND	326	09/02/20 09:03	
Nitrobenzene	ug/kg	ND	326	09/02/20 09:03	
Pentachlorophenol	ug/kg	ND	651	09/02/20 09:03	
Phenanthrene	ug/kg	ND	326	09/02/20 09:03	
Phenol	ug/kg	ND	326	09/02/20 09:03	
Pyrene	ug/kg	ND	326	09/02/20 09:03	
Pyridine	ug/kg	ND	326	09/02/20 09:03	
2,4,6-Tribromophenol (S)	%	93	27-110	09/02/20 09:03	
2-Fluorobiphenyl (S)	%	74	30-110	09/02/20 09:03	
2-Fluorophenol (S)	%	72	13-110	09/02/20 09:03	
Nitrobenzene-d5 (S)	%	65	23-110	09/02/20 09:03	
Phenol-d6 (S)	%	78	22-110	09/02/20 09:03	
Terphenyl-d14 (S)	%	96	28-110	09/02/20 09:03	

LABORATORY CONTROL SAMPLE: 2988884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1680	1460	87	52-130	
1,2-Dichlorobenzene	ug/kg	1680	1420	85	51-130	
1,3-Dichlorobenzene	ug/kg	1680	1410	84	50-130	
1,4-Dichlorobenzene	ug/kg	1680	1470	88	49-130	
1-Methylnaphthalene	ug/kg	1680	1350	80	55-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2988884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/kg	1680	1060	63	30-130	v3
2,4,5-Trichlorophenol	ug/kg	1680	1530	91	55-130	
2,4,6-Trichlorophenol	ug/kg	1680	1450	86	57-130	
2,4-Dichlorophenol	ug/kg	1680	1520	91	56-130	
2,4-Dimethylphenol	ug/kg	1680	1340	80	51-130	
2,4-Dinitrophenol	ug/kg	8390	5910	70	27-133	
2,4-Dinitrotoluene	ug/kg	1680	1600	95	61-130	
2,6-Dinitrotoluene	ug/kg	1680	1590	95	60-130	
2-Chloronaphthalene	ug/kg	1680	1430	85	52-130	
2-Chlorophenol	ug/kg	1680	1520	90	54-130	
2-Methylnaphthalene	ug/kg	1680	1410	84	54-130	
2-Methylphenol(o-Cresol)	ug/kg	1680	1430	85	51-130	
2-Nitroaniline	ug/kg	3360	2160	64	51-130	v3
2-Nitrophenol	ug/kg	1680	1510	90	49-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	1680	1360	81	11-163	
3,3'-Dichlorobenzidine	ug/kg	3360	2950	88	10-132	
3-Nitroaniline	ug/kg	3360	2780	83	55-130	
4,6-Dinitro-2-methylphenol	ug/kg	3360	2510	75	47-142	
4-Bromophenylphenyl ether	ug/kg	1680	1530	91	59-130	
4-Chloro-3-methylphenol	ug/kg	3360	2790	83	55-130	
4-Chloroaniline	ug/kg	3360	2840	85	54-130	
4-Chlorophenylphenyl ether	ug/kg	1680	1450	87	58-130	
4-Nitroaniline	ug/kg	3360	2890	86	54-130	
4-Nitrophenol	ug/kg	8390	6200	74	48-130	
Acenaphthene	ug/kg	1680	1390	83	60-130	
Acenaphthylene	ug/kg	1680	1440	86	60-130	
Aniline	ug/kg	1680	1260	75	43-130	
Anthracene	ug/kg	1680	1380	82	63-130	
Benzo(a)anthracene	ug/kg	1680	1480	88	59-130	
Benzo(a)pyrene	ug/kg	1680	1520	91	57-130	
Benzo(b)fluoranthene	ug/kg	1680	1550	93	54-130	
Benzo(g,h,i)perylene	ug/kg	1680	1550	92	59-130	
Benzo(k)fluoranthene	ug/kg	1680	1550	92	54-130	
Benzoic Acid	ug/kg	8390	5610	67	19-130	
Benzyl alcohol	ug/kg	3360	2690	80	50-130	
bis(2-Chloroethoxy)methane	ug/kg	1680	1260	75	54-130	
bis(2-Chloroethyl) ether	ug/kg	1680	1280	76	48-130	
bis(2-Ethylhexyl)phthalate	ug/kg	1680	1500	89	45-134	
Butylbenzylphthalate	ug/kg	1680	1430	85	46-138	
Chrysene	ug/kg	1680	1440	86	58-130	
Di-n-butylphthalate	ug/kg	1680	1580	94	60-130	
Di-n-octylphthalate	ug/kg	1680	1730	103	53-130	
Dibenz(a,h)anthracene	ug/kg	1680	1650	98	59-130	v1
Dibenzofuran	ug/kg	1680	1490	89	60-130	
Diethylphthalate	ug/kg	1680	1500	90	60-130	
Dimethylphthalate	ug/kg	1680	1510	90	60-130	
Fluoranthene	ug/kg	1680	1640	98	65-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

LABORATORY CONTROL SAMPLE: 2988884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1680	1420	85	63-130	
Hexachloro-1,3-butadiene	ug/kg	1680	1450	86	46-130	
Hexachlorobenzene	ug/kg	1680	1560	93	58-130	
Hexachlorocyclopentadiene	ug/kg	1680	796	47	23-130 v3	
Hexachloroethane	ug/kg	1680	1320	79	47-130	
Indeno(1,2,3-cd)pyrene	ug/kg	1680	1570	94	60-130	
Isophorone	ug/kg	1680	1210	72	49-130	
N-Nitroso-di-n-propylamine	ug/kg	1680	1150	69	47-130	
N-Nitrosodimethylamine	ug/kg	1680	1140	68	45-130	
N-Nitrosodiphenylamine	ug/kg	1680	1410	84	59-130	
Naphthalene	ug/kg	1680	1380	82	55-130	
Nitrobenzene	ug/kg	1680	1140	68	49-130	
Pentachlorophenol	ug/kg	3360	2750	82	10-132	
Phenanthrene	ug/kg	1680	1510	90	62-130	
Phenol	ug/kg	1680	1410	84	46-130	
Pyrene	ug/kg	1680	1390	83	53-130	
Pyridine	ug/kg	1680	995	59	37-130	
2,4,6-Tribromophenol (S)	%			107	27-110	
2-Fluorobiphenyl (S)	%			80	30-110	
2-Fluorophenol (S)	%			79	13-110	
Nitrobenzene-d5 (S)	%			67	23-110	
Phenol-d6 (S)	%			82	22-110	
Terphenyl-d14 (S)	%			96	28-110	

MATRIX SPIKE SAMPLE: 2988885

Parameter	Units	92493142007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	1870	1470	78	18-130	
1,2-Dichlorobenzene	ug/kg	ND	1870	1440	77	14-130	
1,3-Dichlorobenzene	ug/kg	ND	1870	1430	76	12-130	
1,4-Dichlorobenzene	ug/kg	ND	1870	1490	79	10-130	
1-Methylnaphthalene	ug/kg	ND	1870	1370	73	12-130	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	1870	1130	60	10-130 v3	
2,4,5-Trichlorophenol	ug/kg	ND	1870	1620	86	13-130	
2,4,6-Trichlorophenol	ug/kg	ND	1870	1510	81	17-130	
2,4-Dichlorophenol	ug/kg	ND	1870	1610	86	10-130	
2,4-Dimethylphenol	ug/kg	ND	1870	1450	77	10-130	
2,4-Dinitrophenol	ug/kg	ND	9390	5820	62	10-130	
2,4-Dinitrotoluene	ug/kg	ND	1870	1600	85	24-130	
2,6-Dinitrotoluene	ug/kg	ND	1870	1590	85	23-130	
2-Chloronaphthalene	ug/kg	ND	1870	1450	77	19-130	
2-Chlorophenol	ug/kg	ND	1870	1560	83	10-130	
2-Methylnaphthalene	ug/kg	ND	1870	1420	76	18-130	
2-Methylphenol(o-Cresol)	ug/kg	ND	1870	1490	79	10-130	
2-Nitroaniline	ug/kg	ND	3760	2350	63	17-130 v3	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

MATRIX SPIKE SAMPLE:	2988885	92493142007	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
2-Nitrophenol	ug/kg	ND	1870	1570	84	10-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	1870	1410	75	10-130	
3,3'-Dichlorobenzidine	ug/kg	ND	3760	3050	81	10-130	
3-Nitroaniline	ug/kg	ND	3760	2970	79	24-130	
4,6-Dinitro-2-methylphenol	ug/kg	ND	3760	2670	71	10-152	
4-Bromophenylphenyl ether	ug/kg	ND	1870	1590	84	29-130	
4-Chloro-3-methylphenol	ug/kg	ND	3760	2900	77	17-130	
4-Chloroaniline	ug/kg	ND	3760	3000	80	14-130	
4-Chlorophenylphenyl ether	ug/kg	ND	1870	1450	77	25-130	
4-Nitroaniline	ug/kg	ND	3760	2870	76	22-130	
4-Nitrophenol	ug/kg	ND	9390	6640	71	10-130	
Acenaphthene	ug/kg	ND	1870	1400	75	20-130	
Acenaphthylene	ug/kg	ND	1870	1440	77	25-130	
Aniline	ug/kg	ND	1870	1300	69	10-130	
Anthracene	ug/kg	ND	1870	1440	77	29-130	
Benzo(a)anthracene	ug/kg	ND	1870	1500	78	19-130	
Benzo(a)pyrene	ug/kg	ND	1870	1630	84	12-130	
Benzo(b)fluoranthene	ug/kg	ND	1870	1750	87	14-130	
Benzo(g,h,i)perylene	ug/kg	ND	1870	1680	86	10-130	
Benzo(k)fluoranthene	ug/kg	ND	1870	1640	85	14-130	
Benzoic Acid	ug/kg	ND	9390	5660	60	10-130	
Benzyl alcohol	ug/kg	ND	3760	2790	74	13-130	
bis(2-Chloroethoxy)methane	ug/kg	ND	1870	1340	71	16-130	
bis(2-Chloroethyl) ether	ug/kg	ND	1870	1330	71	11-130	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	1870	1550	83	21-130	
Butylbenzylphthalate	ug/kg	ND	1870	1500	80	23-130	
Chrysene	ug/kg	ND	1870	1580	79	22-130	
Di-n-butylphthalate	ug/kg	ND	1870	1630	87	30-130	
Di-n-octylphthalate	ug/kg	ND	1870	1730	92	23-142	
Dibenz(a,h)anthracene	ug/kg	ND	1870	1720	92	10-130	v1
Dibenzofuran	ug/kg	ND	1870	1510	80	24-130	
Diethylphthalate	ug/kg	ND	1870	1610	86	26-130	
Dimethylphthalate	ug/kg	ND	1870	1570	83	22-130	
Fluoranthene	ug/kg	ND	1870	1900	92	33-130	
Fluorene	ug/kg	ND	1870	1440	76	22-130	
Hexachloro-1,3-butadiene	ug/kg	ND	1870	1450	77	13-130	
Hexachlorobenzene	ug/kg	ND	1870	1580	84	29-130	
Hexachlorocyclopentadiene	ug/kg	ND	1870	807	43	10-130	v3
Hexachloroethane	ug/kg	ND	1870	1350	72	10-130	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1870	1680	87	10-130	
Isophorone	ug/kg	ND	1870	1320	70	13-130	
N-Nitroso-di-n-propylamine	ug/kg	ND	1870	1250	67	12-130	
N-Nitrosodimethylamine	ug/kg	ND	1870	1180	63	11-130	
N-Nitrosodiphenylamine	ug/kg	ND	1870	1640	87	15-130	
Naphthalene	ug/kg	ND	1870	1410	75	15-130	
Nitrobenzene	ug/kg	ND	1870	1210	64	12-130	
Pentachlorophenol	ug/kg	ND	3760	2900	77	10-130	

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

MATRIX SPIKE SAMPLE: 2988885		92493142007	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Phenanthrene	ug/kg	ND	1870	1600	83	27-130	
Phenol	ug/kg	ND	1870	1430	76	10-130	
Pyrene	ug/kg	ND	1870	1630	79	19-130	
Pyridine	ug/kg	ND	1870	800	43	10-130	
2,4,6-Tribromophenol (S)	%				104	27-110	
2-Fluorobiphenyl (S)	%				73	30-110	
2-Fluorophenol (S)	%				72	13-110	
Nitrobenzene-d5 (S)	%				64	23-110	
Phenol-d6 (S)	%				75	22-110	
Terphenyl-d14 (S)	%				84	28-110	

SAMPLE DUPLICATE: 2988886

Parameter	Units	92493142012	Dup	RPD	Qualifiers
		Result	Result		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
1-Methylnaphthalene	ug/kg	ND	ND		
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	ND		v2
2,4,5-Trichlorophenol	ug/kg	ND	ND		
2,4,6-Trichlorophenol	ug/kg	ND	ND		
2,4-Dichlorophenol	ug/kg	ND	ND		
2,4-Dimethylphenol	ug/kg	ND	ND		
2,4-Dinitrophenol	ug/kg	ND	ND		
2,4-Dinitrotoluene	ug/kg	ND	ND		
2,6-Dinitrotoluene	ug/kg	ND	ND		
2-Chloronaphthalene	ug/kg	ND	ND		
2-Chlorophenol	ug/kg	ND	ND		
2-Methylnaphthalene	ug/kg	ND	ND		
2-Methylphenol(o-Cresol)	ug/kg	ND	ND		
2-Nitroaniline	ug/kg	ND	ND		v2
2-Nitrophenol	ug/kg	ND	ND		
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	ND		
3,3'-Dichlorobenzidine	ug/kg	ND	ND		
3-Nitroaniline	ug/kg	ND	ND		
4,6-Dinitro-2-methylphenol	ug/kg	ND	ND		
4-Bromophenylphenyl ether	ug/kg	ND	ND		
4-Chloro-3-methylphenol	ug/kg	ND	ND		
4-Chloroaniline	ug/kg	ND	ND		
4-Chlorophenylphenyl ether	ug/kg	ND	ND		
4-Nitroaniline	ug/kg	ND	ND		
4-Nitrophenol	ug/kg	ND	ND		
Acenaphthene	ug/kg	ND	ND		
Acenaphthylene	ug/kg	ND	ND		

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

SAMPLE DUPLICATE: 2988886

Parameter	Units	92493142012 Result	Dup Result	RPD	Qualifiers
Aniline	ug/kg	ND	ND		
Anthracene	ug/kg	ND	ND		
Benzo(a)anthracene	ug/kg	ND	ND		
Benzo(a)pyrene	ug/kg	ND	ND		
Benzo(b)fluoranthene	ug/kg	ND	ND		
Benzo(g,h,i)perylene	ug/kg	ND	ND		
Benzo(k)fluoranthene	ug/kg	ND	ND		
Benzoic Acid	ug/kg	ND	ND		
Benzyl alcohol	ug/kg	ND	ND		
bis(2-Chloroethoxy)methane	ug/kg	ND	ND		
bis(2-Chloroethyl) ether	ug/kg	ND	ND		
bis(2-Ethylhexyl)phthalate	ug/kg	ND	ND		
Butylbenzylphthalate	ug/kg	ND	ND		
Chrysene	ug/kg	ND	ND		
Di-n-butylphthalate	ug/kg	ND	ND		
Di-n-octylphthalate	ug/kg	ND	ND		
Dibenz(a,h)anthracene	ug/kg	ND	ND		v1
Dibenzofuran	ug/kg	ND	ND		
Diethylphthalate	ug/kg	ND	ND		
Dimethylphthalate	ug/kg	ND	ND		
Fluoranthene	ug/kg	ND	ND		
Fluorene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Hexachlorobenzene	ug/kg	ND	ND		
Hexachlorocyclopentadiene	ug/kg	ND	ND		v2
Hexachloroethane	ug/kg	ND	ND		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND		
Isophorone	ug/kg	ND	ND		
N-Nitroso-di-n-propylamine	ug/kg	ND	ND		
N-Nitrosodimethylamine	ug/kg	ND	ND		
N-Nitrosodiphenylamine	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
Nitrobenzene	ug/kg	ND	ND		
Pentachlorophenol	ug/kg	ND	ND		
Phenanthrene	ug/kg	ND	ND		
Phenol	ug/kg	ND	ND		
Pyrene	ug/kg	ND	ND		
Pyridine	ug/kg	ND	ND		
2,4,6-Tribromophenol (S)	%	65	69		
2-Fluorobiphenyl (S)	%	38	42		
2-Fluorophenol (S)	%	55	56		
Nitrobenzene-d5 (S)	%	48	50		
Phenol-d6 (S)	%	58	59		
Terphenyl-d14 (S)	%	16	17		S0

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### QUALITY CONTROL DATA

Project: 473A  
Pace Project No.: 92492740

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QC Batch: 563153	Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87	Analysis Description: Dry Weight/Percent Moisture
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492740001, 92492740003

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SAMPLE DUPLICATE: 2986199

Parameter	Units	92492740001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	5.3	4.0	27	D6

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SAMPLE DUPLICATE: 2986200

Parameter	Units	92492928002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	31.9	30.7	4	

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## QUALIFIERS

Project: 473A  
Pace Project No.: 92492740

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### 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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

### ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

IK The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v2 The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 473A  
Pace Project No.: 92492740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92492740002	GW-1	EPA 3510C	563626	EPA 8270E	563823
92492740004	GW-2	EPA 3510C	563626	EPA 8270E	563823
92492740001	SS-1	EPA 3546	563393	EPA 8270E	563636
92492740003	SS-2	EPA 3546	563787	EPA 8270E	563947
92492740001	SS-1	EPA 5035A/5030B	563087	EPA 8260D	563097
92492740003	SS-2	EPA 5035A/5030B	563087	EPA 8260D	563097
92492740002	GW-1	EPA 8260D	564034		
92492740004	GW-2	EPA 8260D	564034		
92492740001	SS-1	ASTM D2974-87	563153		
92492740003	SS-2	ASTM D2974-87	563153		

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WO#: 92492740



LAB USE ON

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Pace Analytical

Billing Information: NAME

Address: 121 VERMONT DR BEVERLY MA  
 Report To: BRANDON DOBBS  
 Copy To: BRANDON DOBBS

Email To: BRANDON DOBBS  
 Site Collection Info/Address: BRANDON DOBBS@PACEANALYTICAL.COM

State: NC  
 County/City: WILMINGTON

Time Zone Collected: EST

Compliance Monitoring? [ ] Yes [X] No

DW PWS ID #: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: [ ] Yes [ ] No

Turnaround Date Required: 3 DA

Rush: [ ] Same Day [ ] Next Day [X] 1-3 Day [ ] 4 Day [ ] 5 Day

Sample Disposal: [ ] Return [ ] Dispose as appropriate [ ] Other

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SU), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Cms
			Date	Time		
55-1	SL	G	8-20-20	9:20		8
GW-1	GW	G	10:05			6
55-2	SL	G	10:53			8
GW-2	GW	G	11:20			6

Types of Ice Used: Wet Blue Dry None  
 Packing Material Used:  
 Radchem sample(s) screened (<5000 cpm): Y N NA  
 Received by/Company: (Signature) J. P. Dixon / Pace  
 Date/Time: 8-26-20 1630  
 Received by/Company: (Signature) Jon Dobson / Pace  
 Date/Time: 8-27-20 1025

Container Preservative Type \*\*  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 VOA - Headspace: Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA

LAB USE ONLY:  
 Lab Sample # / Comments: 924

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 95006  
 Cooler 1 Temp Upon Receipt: 15.5 OC  
 Cooler 1 Therm Corr. Factor: 0.5 OC  
 Cooler 1 Corrected Temp: 15.0 OC  
 Comments:

Lab Tracking #: 2428838  
 SHORT HOLDS PRESENT (<72 hours): Y N NA  
 Samples received via: FEDEX UPS Client Courier Pace Courier  
 Date/Time: 8/26/20/1630  
 Date/Time: 8/27/20/1025

Customer Remarks / Special Conditions / Possible Hazards:  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Collform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project: **WO# : 92492740**

PM: BV

Due Date: 09/02/20

CLIENT: 92-ATL SHORE

Item#	Description	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (C-)													
BP3U-250 mL Plastic Unpreserved (N/A)													
BP2U-500 mL Plastic Unpreserved (N/A)													
BP1U-1 liter Plastic Unpreserved (N/A)													
BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)													
BP3N-250 mL plastic HNO3 (pH < 2)													
BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)													
BP4C-125 mL Plastic NaOH (pH > 12) (C-)													
WGFU-Wide-mouthed Glass jar Unpreserved													
AG1U-1 liter Amber Unpreserved (N/A) (C-)													
AG1H-1 liter Amber HCl (pH < 2)													
AG3U-250 mL Amber Unpreserved (N/A) (C-)													
AG1S-1 liter Amber H2SO4 (pH < 2)													
AG3S-250 mL Amber H2SO4 (pH < 2)													
AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)													
DG9H-40 mL VOA HCl (N/A)													
VG9T-40 mL VOA Na2S2O3 (N/A)													
VG9U-40 mL VOA Unp (N/A)													
DG9P-40 mL VOA H3PO4 (N/A)													
VOAK (6 vials per kit)-5035 kit (N/A)													
V/GK (3 vials per kit)-VPH/Gas kit (N/A)													
SP5T-125 mL Sterile Plastic (N/A - lab)													
SP2T-250 mL Sterile Plastic (N/A - lab)													
BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)													
AGOU-100 mL Amber Unpreserved vials (N/A)													
VSGU-20 mL Scintillation vials (N/A)													
DG9U-40 mL Amber Unpreserved vials (N/A)													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.