



January 30, 2020

Mr. David Hansen  
Waste Management Specialist  
Bureau for Remediation and Redevelopment  
Wisconsin Department of Natural Resources  
2300 N. Dr. Martin Luther King, Jr. Dr.  
Milwaukee, WI 53212

RE: Post-Closure Environmental Conditions  
One Hour Martinizing (Fmr.)  
310 Delafield Street,  
Waukesha, WI 53188  
FID# 268226090; BRRTS# 02-68-494990.

Dear David:

LF Green Development, LLC has prepared this report to document post-closure environmental conditions for the above referenced Site identified as BRRTS # 02-68-494990. The site location is depicted in the attached Figure 1.

The Site is part of the property located at 200-310 Delafield Street, City of Waukesha, Waukesha County, Wisconsin and is comprised of one tax parcel identified as WAKC1305-460. The existing structure and property were purchased by the City of Waukesha for redevelopment on March 2, 2018. In June 2018, the City of Waukesha obtained a Site Assessment Grant (Contract # SAG FY18-24177) from the Wisconsin Economic Development Corporation (WEDC) for asbestos abatement, building demolition, and site investigation costs. Prior to issuing the SAG contract, WEDC notified WDNR of the SAG site investigation scope, including the building demolition. The following includes a summary of current environmental conditions associated with the property proposed for redevelopment.

### **Site History**

Historically, the Site was vacant grass land with a creek running from the Fox River through the center of the Subject Site. The creek bed was filled with foundry sand and other fill soils, which predominate the eastern portion of the Site, now occupied by the asphalt parking lot.

A commercial strip mall (200 to 310 Delafield Street) was built on the Site in 1963 and was occupied by several commercial tenants, including a dry cleaner, which operated in a northern unit of the former strip mall.

The City of Waukesha demolished the strip mall in 2018. All concrete slabs, footings, and below-grade utilities have been removed from the property. Asphalt pavement remains on the Site in the locations shown on the attached map (Figure 2, Detailed Site Map). The City is currently using the property as a municipal employee parking lot. The City is requesting redevelopment plans from developers to assist in determining the best use of the property and to redevelop the property into a tax generating commercial/mixed use development.

In 1955, the Former William's Shell Service Station (318 Delafield Street) was built north of the Site. The gas station was most recently operated as an auto repair shop and used automobile dealership. The City of Waukesha also purchased this property and demolished the former gas station in 2019.

### **Environmental Regulatory History**

Prior to the City of Waukesha's ownership, the WDNR granted site closure for the former dry cleaner (310 Delafield Street) and the former gas station (318 Delafield Street) located north and adjacent to the Site. Site closure summaries and conditions are provided below:

***Former Dry Cleaner Property:*** *One Hour Martinizing (OHM), 310 Delafield Street, Waukesha, WI 53188 FID# 268226090; BRRTS# 02-68-494990.* Dry cleaning operations resulted in residual soil contamination beneath the paved asphalt surface on the east side of the former building footprint and beneath the northwest side of the building. The Site was closed by WDNR in 2006 with residual soil contamination exceeding NR 720 residual contaminant levels (RCLs). The July 25, 2006 closure letter from the Wisconsin Department of Natural Resources (WDNR) specified continuing obligations and adherence to a maintenance plan for the site. The location of residual soil impacts subject to the 2006 maintenance plan is depicted in the Site Plan Map prepared by Sigma Environmental Services, Inc. (Sigma) and is included as Attachment A.

The residual contamination includes tetrachloroethene (PCE), a volatile organic compound (VOC) commonly used in dry cleaner solvents. PCE was not identified in the groundwater. Groundwater contamination identified included petroleum-type VOCs, which migrated from the Former William's Shell located north and upgradient of the Site.

***Former Gas Station Property - Former William's Shell Service Station, 318 Delafield Street, Waukesha, WI 53186 FID# 268350720 BRRTS# 03-68-000857.*** The site was closed by WDNR with a groundwater use restriction for residual groundwater contamination. Groundwater contamination containing petroleum VOCs has migrated from the former gas station to the Site. The 1996 groundwater plume is depicted in a map prepared by Giles Engineering Associates, Inc. (Giles) and is included in Attachment B.

## City of Waukesha Environmental Investigation 2018

LF Green completed test pits on the property to further investigate residual soil contamination remaining on the Site, specifically on the north and east side of the former strip mall building, as well beneath the building footprint where residual contamination was identified.

The test pits were completed at the locations shown on the attached maps. Contaminated soil disturbed by the test pits were removed from the Site and disposed at a licensed landfill (Waste Management Deer Track RDF, Watertown, Wisconsin). More than 262 tons of contaminated material was removed and disposed during the test pit investigation. After the test pits were completed, the contractor backfilled these areas with clean, imported material obtained from a local gravel pit. LF Green collected soil samples from the base and sidewalls of the test pits and submitted samples for analysis of VOCs. Table 1 summarizes the test pit sampling results as well as the previous site investigation soil data relative to current NR 720 RCLs. Laboratory analytical reports for the 2018 test pit investigation are included in Attachment C. The results of the test pit excavations are summarized as follows:

### Test Pit No. 1

Test Pit TP-1 was completed within the northern footprint of the former strip mall building and was excavated to a depth of approximately 8 feet below ground surface (bgs). A soil sample collected at the base of the excavation contained PCE at a concentration of 147 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), exceeding the groundwater pathway RCL for PCE. Native sand and gravel soils were encountered at the base of the excavation. Test Pit TP-1 adequately defines the westerly extent of residual soil contamination given that PCE concentrations are significantly lower than the residual contamination levels previously found east of the former structure. Additionally, no PCE was detected in nearby GP-101 soil samples, collected by Sigma in 2005.

### Test Pit No. 2

Test Pit TP-2 was completed east of the footprint of the former strip mall building in an area in an area of approximately 18 feet by 18 feet where soil contamination was previously identified. The test pit was excavated to a depth of approximately 12 feet bgs to evaluate contamination levels in the direct contact zone (0 to 4 feet bgs) and to assess the vertical contaminant concentrations at the apparent contaminant source area. Groundwater was not encountered. A monitoring well installed in this area had historically encountered groundwater at approximately 20 feet bgs.

Historic fill material, consisting predominately of foundry sand, was encountered throughout the excavation. Native sand and gravel soils were encountered at the base of the test pit excavation at a depth of 12 feet. A clay drain tile was encountered at the south wall of the test pit at a depth of approximately 7 to 8 feet bgs. Soil analytical results do not suggest that the drain tile was a source of contamination as soil samples collected from the sidewalls and base of the excavation indicated significant levels of PCE in both shallow and deep soils. PCE was found in soil at depths from 2 feet below ground surface to the base of Test Pit No. 2 at levels exceeding the NR 720 groundwater pathway RCLs but below direct contact RCLs. Previous investigation in this

area encountered PCE at depths up to 17 feet below ground surface. No other CVOCs were detected in the soil samples collected. The absence of other CVOCs in soil samples suggest that the contamination has not significantly degraded over time.

Foundry sand and other fill materials were not evaluated for other contaminants that may be expected, such as polycyclic aromatic hydrocarbons (PAHs) or metals. However, naphthalene, a compound that is both a VOC and a PAH and is a common contaminant in historic fill, and other petroleum-type VOCs, were not detected or were detected well below RCLs in all samples collected, suggesting that the residual contamination is primarily from the former dry-cleaning operations. Petroleum-type VOCs were detected in prior site investigation soil boring samples collected from north of the Site where similar historic fill was encountered; however, most of these samples were collected from depths below the water table, and the contamination identified was likely from migration of the adjacent and upgradient petroleum VOC plume.

### Test Pit No. 3

Test Pit TP-3 was completed within the northwest footprint of the former strip mall building, where soil contamination from dry cleaning machines was previously identified. The test pit was excavated in an area of approximately 30 feet by 20 feet to a depth of approximately 8 feet bgs and encompassed the residual contaminated area previously identified. Groundwater was encountered at a depth of 8 feet bgs, consistent with prior investigation findings. Sandy soils were encountered throughout the excavation. Soil samples collected from the sidewalls of the excavation, at both shallow depths and just above the groundwater interface, showed no detectable levels of VOCs, indicating that all soil contamination was removed from this area by the test pit excavation and no residual soil contamination remains in this area.

## **2018 Site Investigation Conclusions**

Residual soil contamination remains east of the former structure and extends slightly west beneath the footprint of the former structure. Given that PCE was not detected in GP-101 soil samples, collected by Sigma in 2005, the significantly lower levels of PCE detected in the TP-1 soil sample collected by LF Green, and the absence of PCE in test pit samples collected from test pit TP-3, a near-surface source of PCE contamination likely originated on the east side of the former structure migrated vertically through the fill materials. PCE concentrations exceed the NR 720 groundwater pathway RCLs but do not exceed direct contact RCLs.

## **Environmental Conditions Summary**

### Residual Soil Contamination

Residual soil contamination from the former dry-cleaning operation remains on the site in the area east and beneath the former strip mall structure footprint. The residual soil contamination detected exceeds the NR 720 groundwater pathway residual contaminant levels (RCLs) from the surface to the approximate water table, which is variable and occurs at approximately 8 to 20 feet bgs. LF Green compared prior site investigation data to current RCLs and determined that neither the industrial nor non-industrial direct contact pathways were exceeded in soil (Table 1).

Any impacted soil or fill material graded or excavated from the subsurface will need to be disposed of in accordance with local, state and federal laws. The extent of residual soil contamination remaining on the site is depicted in Figure 3, Residual Soil Contamination. Residual soil contaminant concentrations are summarized in Table 2.

#### Groundwater Contamination

Impacted groundwater has migrated onto the Site from the former William's Shell site. Previous investigation of the Site indicates that groundwater has not been impacted by the residual PCE soil contamination. Based on the One Hour Martinizing and Williams Shell groundwater data, the approximate extent of impacted groundwater that has migrated to the Site from the adjacent William's Shell was plotted and is depicted in Figure 4, Groundwater Impacts. Although contaminated groundwater has migrated from the adjacent site, groundwater removed from the Site for dewatering must be managed as potentially contaminated groundwater in accordance with applicable laws. Table 3 summarizes groundwater contamination detected by the prior One Hour Martinizing site investigation and does not include the William's Shell groundwater data.

#### Vapor Migration

Although prior investigation of the Site indicated a low potential for vapor migration into the former strip mall building, the residual soil contamination is a potential source for vapors that may potentially migrate into any new building constructed at the Site. The residual soil and groundwater contamination that remains on the site is a potential source of contaminated vapors that may enter the new building(s). Construction over contaminated materials may result in vapor migration into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and mitigation must be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the Site.

The extent of residual PCE in soil is located more than 100 feet from existing occupied structures, including the residential structures west of the Site, indicating a low risk of vapor migration to neighboring occupied structures.

#### Hazardous Waste Determination

Both WDNR and EPA rules require the generator of a solid waste to determine whether that waste is a hazardous waste. Under the "contained in" rule, soil containing PCE from dry cleaning operations may be considered a "listed" hazardous waste under Wisconsin and USEPA regulations. However, soil containing PCE may not be regulated as a listed hazardous waste when concentrations of the hazardous waste constituents do not exceed site specific health-based levels and when the soils are managed appropriately upon excavation.

WDNR has established that use of the industrial site direct contact protection RCLs, as determined by the EPA Regional Screening Level Web Calculator, are acceptable for determining when excavated soil could be considered to no longer contain hazardous waste. Given that laboratory analytical data verifies that PCE concentrations were detected below these values, soil excavated or disturbed at the Site during redevelopment activities does not contain

listed hazardous waste.

Contaminated media can also be considered a hazardous waste if it exhibits a hazardous characteristic including ignitability, reactivity, corrosivity or toxicity. The characteristic most likely to apply to contaminated soil is toxicity, which is determined by the Toxicity Characteristic Leaching Procedure (TCLP). EPA states that the TCLP allows for a total constituent analysis in lieu of the TCLP extraction. Based on total contaminant concentrations subject to TCLP analyses, none of the volatile constituents identified in soil exceeded 20 times the TCLP regulatory limit at the Site, indicating a low potential for excavated soil to exceed a TCLP limit.

#### Historic Fill Soils

Soil borings and test pits documented the presence of foundry sand fill on the site. Prior to any redevelopment, the Property owner will need to submit an Exemption Application (Forms 4400-226 and 4400-226A) and receive WDNR approval for development at a historic fill site (as required by Wis. Admin. Code, § NR 506.08). Any impacted soil or fill material graded or excavated from the subsurface will need to be disposed of in accordance with local, state and federal laws. Guidance documents regarding development at Historic Fill Site can be found online at [dm.wi.gov](http://dm.wi.gov) and search "Development at Historic Landfills."

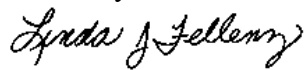
#### **Continuing Obligations**

After the site is redeveloped, a Post-Closure Modification will be required, including a maintenance plan that addresses all residual contaminated media (soil, groundwater or vapor). The future owner of the Site will assume the responsibility to maintain the cap and inspection requirements; and will be responsible to manage any impacted media removed from the Subject Site.



Thank you for your assistance with this project. If you have any questions or comments, please feel free to call me at (414) 254-4813 or email me at [LFellenz@LFGreendevlopment.com](mailto:LFellenz@LFGreendevlopment.com).

Sincerely,



LF Green Development, LLC  
Linda J. Fellenz, President



Katherine M. Juno, PG

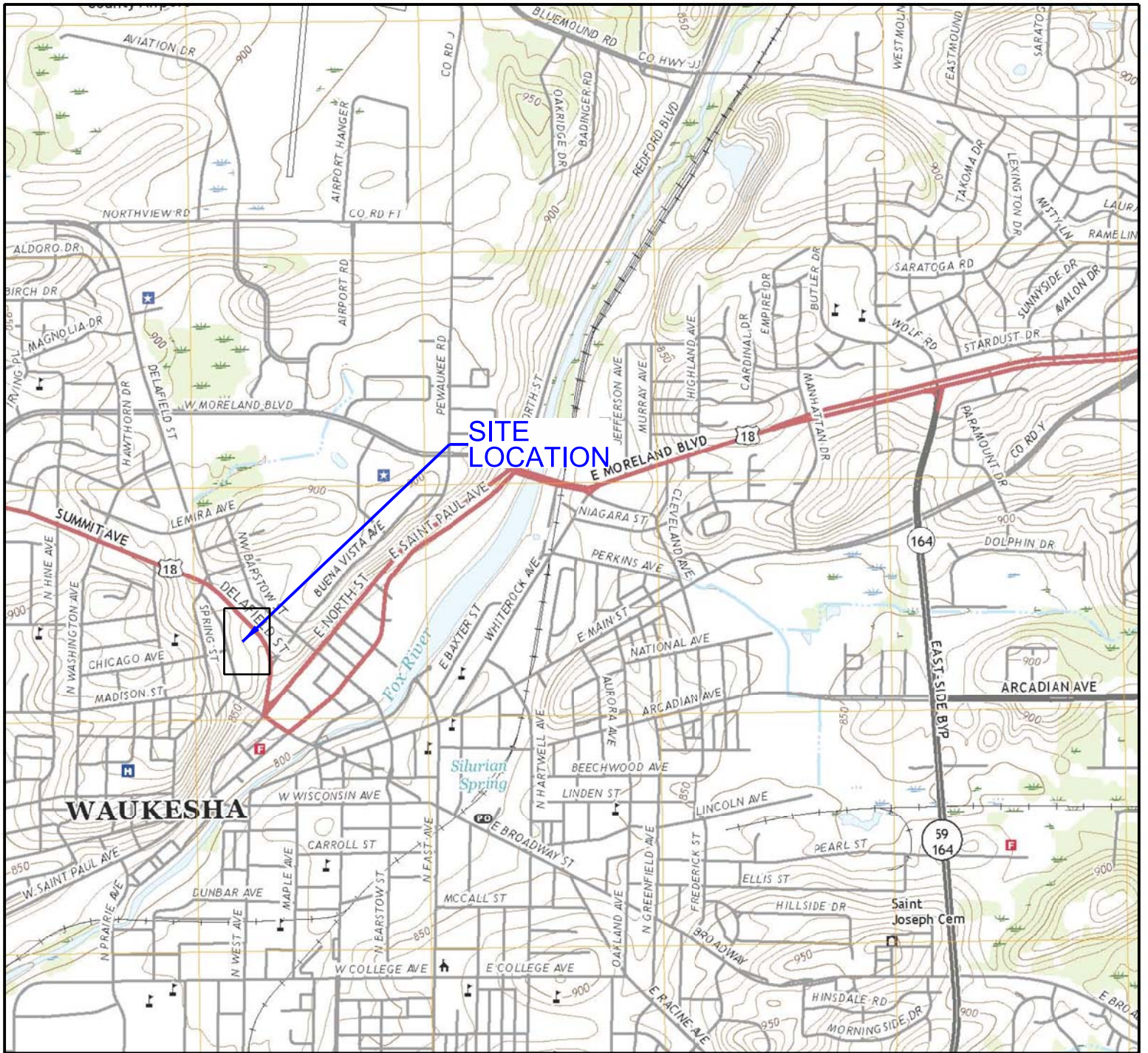
I, KATHERINE M. JUNO, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

#### Attachments

- Figures:      Figure 1 Site Location  
                  Figure 2 Detailed Site Map  
                  Figure 3 Residual Soil Contamination  
                  Figure 4 Groundwater Impacts
- Tables:        Table 1: Soil Analytical Summary  
                  Table 2: Residual Soil Contamination  
                  Table 3: Groundwater Analytical Summary
- Attachment A: Site Plan Map from 2006 Site Maintenance Plan  
Attachment B: 1996 Groundwater Plume Map - Former William's Shell  
Attachment C: Soil Analytical Laboratory Reports, 2018 Test Pits

## FIGURES

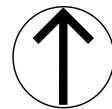




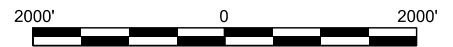
SOURCE: USGS WAUKESHA QUADRANGLE, 2018



QUADRANGLE LOCATION



NORTH



SCALE: 1" = 2000'

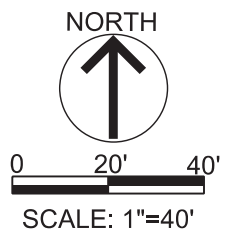
### FIGURE 1 SITE LOCATION

ONE HOUR MARTINIZING  
310 DELAFIELD STREET  
CITY OF WAUKESHA, WI

BRRTS# 02-68-494990



5600 W. Brown Deer Road  
Suite 120  
Milwaukee, WI 53223  
Cell: 414-254-4813  
Fax: 414-375-4098  
lfgreendevlopment.com  
WBE, SBE, WOSB, DBE



Former William's Shell Service Station  
318 Delafield Street,  
BRRTS# 03-68-000857

1' WALL

ASPHALT PAVEMENT

MW-3

GP-1

HA-1

HA-2

VS-1

GP-102

SB-101

TP-3

MW-2

SB-2

MW-4

SB-102

MW-5

SB-103

TP-2

VS-1

GP-101

SB-105

SB-104

TP-1

EDGE OF PAVT  
ASPHALT PAVEMENT

MW-1

SB-1

SB-106

SB-107

GRAVEL  
SURFACE

SB-108

ASPHALT  
PARKING LOT

SB-109

FORMER STRIP MALL  
200-318 DELAFIELD STREET  
(RAZED 2018)

CONC.  
PED. Ⓞ

ASPHALT PAVEMENT

DELAFIELD STREET

City of Waukesha Public Works Department

Single-Family Residential

LEGEND

- Ⓜ MANHOLE
- Ⓜ INLET
- Ⓜ SIGN
- POLE
- ▣ UTILITY BOX
- - - - PROPERTY LINE
- ⊠ TEST PIT - NOV. 2018
- ⊗ VAPOR SAMPLING POINT
- ⊕ GEOPROBE BORING
- MONITORING WELL
- ◐ SOIL BORING
- ⊞ TEMPORARY WELL
- ⊠ HAND AUGER BORING

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SCALE: 1"=40'

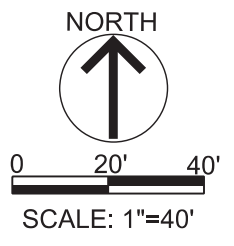
ONE HOUR MARTINIZING  
310 DELAFIELD STREET  
CITY OF WAUKESHA, WI  
BRRTS# 02-68-494990

FIGURE 2  
DETAILED SITE MAP

REVISIONS  
5600 W. Brown Deer Road  
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WBE, SBE, WOSB, DBE







Former William's Shell Service Station  
318 Delafield Street,  
BRRTS# 03-68-000857

1' WALL

ASPHALT PAVEMENT

Extent of Volatile Organic Compounds  
in Soil Exceeding NR 720 Groundwater  
Pathway Residual Contaminant Levels

TP-3

TP-2

TP-1

EDGE OF PAVT  
ASPHALT PAVEMENT

GRAVEL  
SURFACE

FORMER STRIP MALL  
200-318 DELAFIELD STREET  
(RAZED 2018)

ASPHALT  
PARKING LOT

CONC.  
PED. Ⓞ

ASPHALT PAVEMENT

DELAFIELD STREET

**LEGEND**

- Ⓜ MANHOLE
- Ⓜ INLET
- Ⓜ SIGN
- POLE
- ▣ UTILITY BOX
- - - - PROPERTY LINE
- ⊠ TEST PIT - NOV. 2018
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ONE HOUR MARTINIZING  
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CITY OF WAUKESHA, WI

BRRTS# 02-68-494990

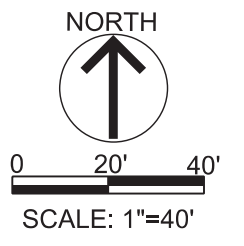
**FIGURE 3**

RESIDUAL SOIL CONTAMINATION

REVISIONS

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Former William's Shell Service Station  
318 Delafield Street,  
BRRTS# 03-68-000857

1' WALL

ASPHALT PAVEMENT

Approximate Extent of  
Petroleum Volatile Organic Compounds  
in Groundwater Exceeding the  
NR 140 Enforcement Standard

MW-3

GP-1

SB-101

TP-3

HA-1

VS-1

GP-102

MW-2

SB-2

MW-4

SB-102

MW-5

SB-103

TP-2

VS-1

GP-101

MW-1

SB-1

SB-106

SB-104

SB-107

TP-1

EDGE OF PAVT

ASPHALT PAVEMENT

GRAVEL SURFACE

GP-101

SB-109

ASPHALT PARKING LOT

DELAFIELD STREET

FORMER STRIP MALL  
200-318 DELAFIELD STREET  
(RAZED 2018)

CONC. PED. Ⓞ

ASPHALT PAVEMENT

**LEGEND**

- Ⓜ MANHOLE
- Ⓜ INLET
- Ⓜ SIGN
- POLE
- ▣ UTILITY BOX
- - - - PROPERTY LINE
- ⊠ TEST PIT - NOV. 2018
- ⊗ VAPOR SAMPLING POINT
- ⊕ GEOPROBE BORING
- MONITORING WELL
- ◐ SOIL BORING
- ⊕ TEMPORARY WELL
- ⊠ HAND AUGER BORING

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ONE HOUR MARTINIZING  
310 DELAFIELD STREET  
CITY OF WAUKESHA, WI  
BRRTS# 02-68-494990

**FIGURE 4**  
**GROUNDWATER IMPACTS**

REVISIONS

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# TABLES

TABLE 1 SOIL ANALYTICAL RESULTS				Test Pit Number	TP-1											TP-2											TP-3										
One Hour Martinizing 310 Delafield Street Waukesha, WI BRRTS# 02-68-494990				Sample Number	TP-1 8'	TP-2 E	TP-2 W	TP-2 N	TP-2 S	TP-2 E	TP-2 W	TP-2 N	TP-2 S	TP-2 NE	TP-2 NE BASE	TP-2 NW BASE	TP-3 W	TP-3 S	TP-3 E	TP-3 N	TP-3 E	TP-3 W	TP-3 S	TP-3 E													
				Depth (feet bgs)	8'	2-4'	2-4'	2-4'	2-4'	8-10'	8-10'	8-10'	10-12'	12'	12'	2-4'	1-3'	1-3'	4-6'	4-6'	6-8'	6-8'	6-8'														
				Date Sampled	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018														
Analyte	NR 720 RCLs			Groundwater Pathway																																	
	Industrial Direct Contact Pathway	Non-Industrial Direct Contact Pathway																																			
Benzene	7,070	1,600	5.12	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Bromobenzene	679,000	342,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Bromochloromethane	906,000	216,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Bromodichloromethane	1,830	418	0.326	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Bromoform	113,000	25,400	2.33	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Bromomethane	43,000	9,600	5.06	<69.9	<89.6	<118	<155	<76.8	<90.8	<98.5	<164	<111	<71.3	<78.5	<94.5	<79.4	<83.2	<74.4	<70.6	<69.9	<94.5	<76.0	<92.0														
n-Butylbenzene	108,000	108,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
sec-Butylbenzene	145,000	145,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
tert-Butylbenzene	183,000	183,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Carbon tetrachloride	4,030	916	3.88	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Chlorobenzene	761,000	370,000	135.8	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Chloroethane	2,120,000	2,120,000	226.6	<67.0	<85.9	<114	<149	<73.6	<87.0	<94.4	<158	<106	<68.4	<75.3	<90.6	<76.2	<79.8	<71.3	<67.7	<67.0	<90.6	<72.8	<88.2														
Chloroform	1,980	454	3.33	<46.4	<59.5	<78.7	<103	<51.0	<60.3	<65.4	<109	<73.7	<47.4	<52.2	<62.8	<52.8	<55.3	<49.4	<46.9	<46.4	<62.8	<60.5	<61.1														
Chloromethane	669,000	159,000	15.5	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
2-Chlorotoluene	907,000	907,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
4-Chlorotoluene	253,000	253,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,2-Dibromo-3-chloropropane	NS	NS	0.173	<91.2	<117	<155	<203	<100	<118	<129	<215	<145	<93.1	<103	<123	<104	<109	<97.1	<92.2	<91.2	<123	<99.2	<120														
Dibromochloromethane	38,900	8,280	31.95	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,2-Dibromoethane (EDB)	221	50	0.028	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Dibromomethane	143,000	34,000	0.028	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,2-Dichlorobenzene	376,000	376,000	1.168	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,3-Dichlorobenzene	297,000	297,000	1.153	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,4-Dichlorobenzene	16,400	3,740	144	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Dichlorodifluoromethane	530,000	126,000	3.086	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,1-Dichloroethane	22,200	5,060	483	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,2-Dichloroethane	2,870	652	2.84	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,1-Dichloroethene	1,190,000	320,000	5.02	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
cis-1,2-Dichloroethene	2,340,000	156,000	41.2	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
trans-1,2-Dichloroethene	1,850,000	1,560,000	62.6	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,2-Dichloropropane	1,780	406	3.32	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,3-Dichloropropane	1,490,000	1,490,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
2,2-Dichloropropane	191,000	191,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
1,1-Dichloropropene	NS	NS	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
cis-1,3-Dichloropropene	1,210,000	1,210,000	0.285	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
trans-1,3-Dichloropropene	1,510,000	1,510,000	0.285	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Diisopropyl ether	2,260,000	2,260,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Ethylbenzene	35,400	8,020	1,570	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Hexachloro-1,3-butadiene	7,190	1,630	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Isopropylbenzene (Cumene)	268,000	268,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
p-Isopropyltoluene	162,000	162,000	NS	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Methylene Chloride	1,150,000	61,800	2.56	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Methyl-tert-butyl ether	282,000	63,800	27	<25.0	<32.1	<42.4	<55.6	<27.5	<32.5	<35.2	<58.8	<39.7	<25.5	<28.1	<33.8	<28.4	<29.8	<26.6	<25.3	<25.0	<33.8	<27.2	<32.9														
Naphthalene	24,100	5,520	658	75.2	75.5J	<67.9	113J	<44.0	<52.0	<56.4	<94.2	<63.6	<40.9	<45.0	&lt																						

<b>TABLE 2 RESIDUAL SOIL CONTAMINATION</b> <b>One Hour Martinizing</b> <b>310 Delafield Street</b> <b>Waukesha, WI</b> <b>BRRTS# 02-68-494990</b>				Sample Location		TP-2							
				TP-1		TP-2 E		TP-2 N	TP-2 E	TP-2 W	TP-2 N	TP-2 S	TP- NW BASE
				Sample Number		TP-1 8'	TP-2 E	TP-2 N	TP-2 E	TP-2 W	TP-2 N	TP-2 S	TP- NW BASE
				Depth (feet bgs)		8'	2-4'	2-4'	8-10'	8-10'	8-10'	8-10'	12'
				Date Sampled		11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	11/7/2018	
Analyte	NR 720 RCLs												
	Industrial Direct Contact Pathway	Non-Industrial Direct Contact Pathway	Groundwater Pathway										
Benzene	7,070	1,600	5.12	<25.0	<32.1	<55.6	<32.5	<35.2	<58.8	<39.7	<33.8		
Ethylbenzene	35,400	8,020	1,570	<25.0	<32.1	<55.6	<32.5	<35.2	<58.8	<39.7	<33.8		
Naphthalene	24,100	5,520	658	75.2	75.5J	113J	<52.0	<56.4	<94.2	<63.6	<54.1		
Tetrachloroethene	145,000	33,000	4.54	<b>147</b>	<b>4160</b>	<b>6110</b>	<b>3430</b>	<b>1990</b>	<b>6000</b>	<b>3410</b>	<b>172</b>		
Toluene	818,000	818,000	1,107	40.8	69.9J	110J	<32.5	<35.2	<58.8	<39.7	<33.8		
1,2,4-Trimethylbenzene	219,000	219,000	1,382	51.0	37.5J	<55.6	<32.5	<35.2	<58.8	<39.7	<33.8		
1,3,5-Trimethylbenzene	182,000	182,000		<25.0	<32.1	<55.6	<32.5	<35.2	<58.8	<39.7	<33.8		
Xylene (total)	260,000	260,000	3,960	<50.0	<84.7	<111	<64.9	<70.4	<118	<79.4	<67.6		

Notes:

**Bold and boxed font** indicates result exceeds Industrial Direct Contact RCL

**Bold font** indicates result exceeds Non-Industrial Direct Contact RCL

*Italics and underline font* indicates result exceeds Groundwater RCL

Yellow shading used where RCL exceeded

Saturated soils - RCLs not applicable to saturated soils

Residual Contaminant Levels March 2017

µg/kg: micrograms per kilogram

J - Estimated concentration at or above the limit of detection (LOD) and below the limit of quantitation (LOQ)

-- : Not Analyzed



<b>TABLE 2 RESIDUAL SOIL CONTAMINATION</b> <b>One Hour Martinizing</b> <b>310 Delafield Street</b> <b>Waukesha, WI</b> <b>BRRTS# 02-68-494990</b>				Sample Location		Site Investigation Soil Samples										
				Sample Number		SB-1	MW-4	MW-5	SB-104		SB-105	SB-106		SB-107	SB-108	
				Depth (feet bgs)		4-6'	10-12'	4-6'	4-6'	9-11'	15-17'	13-15'	5-7'	11-13'	9-11'	5-7'
				Date Sampled		06/10/04	06/10/04	06/29/04	06/29/04	5/16/2005	5/16/2005	5/17/2005	5/17/2005	5/17/2005	05/17/05	
Analyte	NR 720 RCLs															
	Industrial Direct Contact Pathway	Non-Industrial Direct Contact Pathway	Groundwater Pathway													
Benzene	7,070	1,600	5.12	<25	<25	<25	<b>33</b>	<33	<29	<140	<26	<35	<36	<26		
Ethylbenzene	35,400	8,020	1,570	<25	<25	<25	<25	<33	<29	<b>3,100</b>	<26	<35	<36	<26		
Naphthalene	24,100	5,520	658	110	<25	53	150	<66	<59	<b>1,900</b>	150	<70	<71	300		
Tetrachloroethene	145,000	33,000	4.54	<b>3,500</b>	<b>1000</b>	<b>97</b>	<b>230</b>	<b>590</b>	<b>46</b>	<140	<b>6,200</b>	<b>1,000</b>	<b>820</b>	<b>290</b>		
Toluene	818,000	818,000	1,107	63	<25	<25	<25	<33	<29	<140	90	<35	<36	<26		
1,2,4-Trimethylbenzene	219,000	219,000	1,382	34	<75	<25	<25	<33	<29	<b>13,000</b>	45	<35	<36	81		
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25	<25	<25	<33	<29	<b>1,500</b>	<26	<35	<36	<26		
Xylene (total)	260,000	260,000	3,960	106	<25	<75	<75	<110	<100	<b>1,800</b>	100	<120	<120	270		

Notes:

**Bold and boxed font** indicates result exceeds Industrial Direct Contact RCL

**Bold font** indicates result exceeds Non-Industrial Direct Contact RCL

*Italics and underline font* indicates result exceeds Groundwater RCL

**Yellow shading used where RCL exceeded**

Saturated soils - RCLs not applicable to saturated soils

Residual Contaminant Levels March 2017

µg/kg: micrograms per kilogram

J - Estimated concentration at or above the limit of detection (LOD) and below the limit of quantitation (LOQ)

-- : Not Analyzed

**TABLE 3 GROUNDWATER ANALYTICAL RESULTS**

**One Hour Martinizing  
310 Delafield Street  
Waukesha, WI  
BRRTS# 02-68-494990**

Monitoring Well ID		MW-1	MW-2	MW-3	MW-4	MW-5	NR 140	
Date	Units	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	ES	PAL
Volatile Organic Compounds								
Benzene	µg/l	<b>24</b>	<0.41	<0.41	<b>14</b>	<b>3.5</b>	5	0.5
n-Butylbenzene	µg/l	<4.6	<0.93	<0.93	<2.3	260	NS	NS
sec-Butylbenzene	µg/l	<4.4	<0.89	<0.89	<2.2	<2.2	NS	NS
tert-Butylbenzene	µg/l	<4.8	<0.97	<0.97	<2.4	<2.4	NS	NS
Chloroethane	µg/l	<4.8	<0.97	<0.97	<2.4	<2.4	400	80
Chloroform	µg/l	<1.8	<0.37	<0.37	<0.92	<0.92	6	0.6
1,1-Dichloroethane	µg/l	<3.8	<0.75	<0.75	<1.9	<1.9	850	85
1,2-Dichloroethane	µg/l	<1.8	<0.36	<0.36	<0.90	<0.90	5	0.5
1,1-Dichloroethene	µg/l	<2.8	<0.57	<0.57	<1.4	<1.4	7	0.7
cis-1,2-Dichloroethene	µg/l	<4.1	<0.83	<0.83	<2.1	<2.1	70	7
trans - 1,2-Dichloroethene	µg/l	<4.4	<0.89	<0.89	<2.2	<2.2	100	20
Ethylbenzene	µg/l	<i>570</i>	<0.54	<0.54	<i>390</i>	<i>160</i>	700	140
Isopropylbenzene	µg/l	78	<0.59	<0.59	110	86	NS	NS
Methyl tert-butyl ether	µg/l	<3.0	<0.61	1.4	<1.5	<1.5	60	12
Naphthalene	µg/l	<b>59</b>	<0.74	<0.74	<b>190</b>	<b>40</b>	40	8
n-Propylbenzene	µg/l	210	<0.81	<0.81	410	260	NS	NS
Tetrachloroethene	µg/l	<2.2	<0.45	<0.45	<1.1	<1.1	5	0.5
Toluene	µg/l	<3.4	<0.67	<0.67	<1.7	<1.7	1000	200
Trichloroethene	µg/l	<2.4	<0.48	<0.48	<1.2	<1.2	5	0.5
1,2,4-Trimethylbenzene	µg/l	320	<0.97	<0.97	<2.4	<2.4	NS	NS
1,3,5-Trimethylbenzene	µg/l	12	<0.83	<0.83	110	<2.1	NS	NS
Total Trimethylbenzenes	µg/l	332	<1.80	<1.80	<i>110</i>	<4.5	480	96
Vinyl Chloride	µg/l	<0.90	<0.18	<0.18	<0.45	<0.45	0.2	0.02
Total Xylenes	µg/l	338	<2.63	<2.63	87	29	10000	1000

Notes:

mg/l = Milligrams per liter

µg/l = Micrograms per liter

NS = No established standard

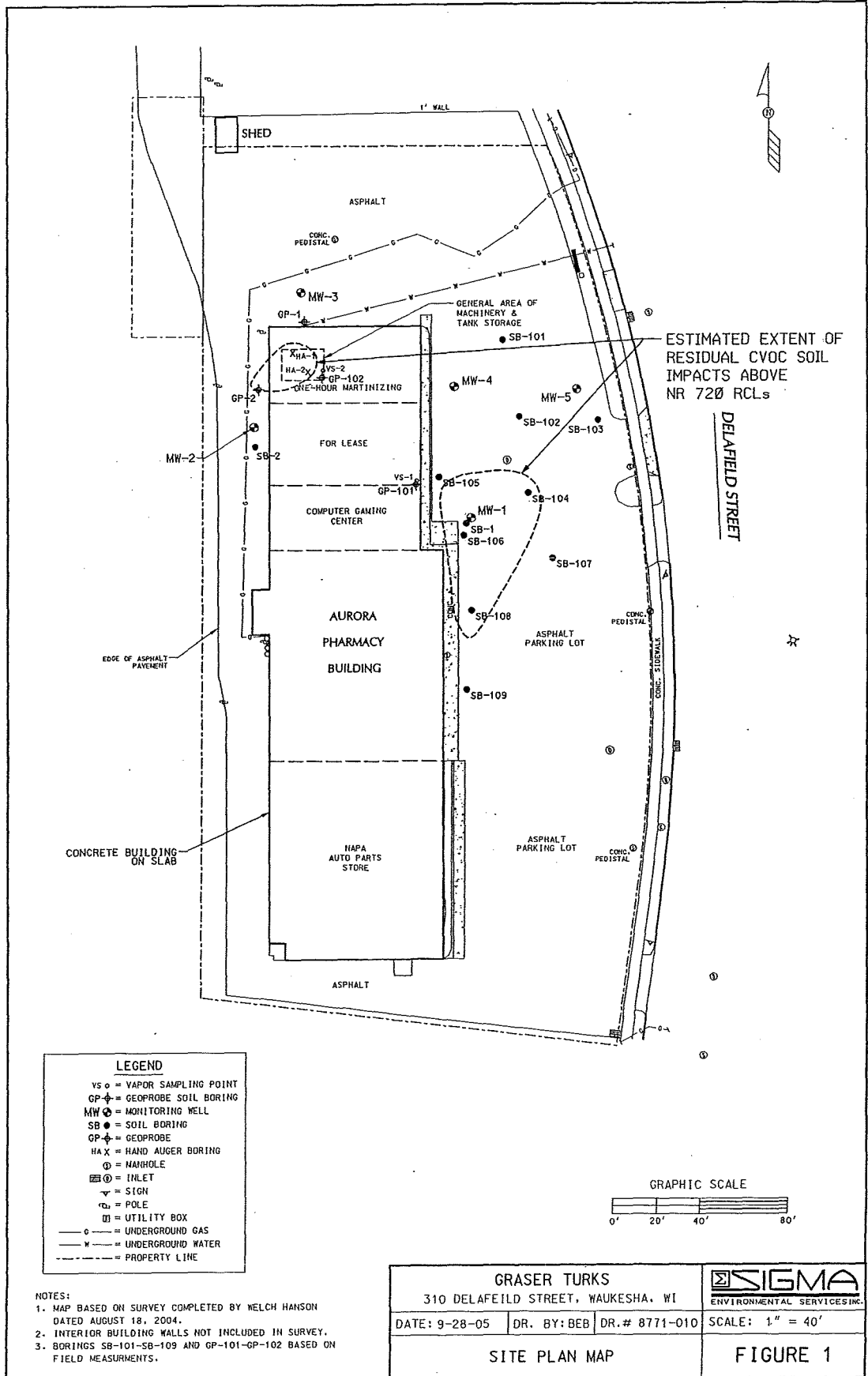
NR 140 ES = Chapter NR 140 Enforcement Standard; NR 140 PAL = Chapter NR 140 Preventative Action Limit

**BOLD** font = Concentrations reported above NR 140 ES

*ITALICS* font = Concentrations reported above NR 140 ES

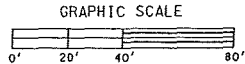
# ATTACHMENT A

Site Plan Map from 2006 Maintenance Plan



LEGEND	
VS ○	= VAPOR SAMPLING POINT
GP ⊕	= GEOPROBE SOIL BORING
MW ⊕	= MONITORING WELL
SB ●	= SOIL BORING
GP ⊕	= GEOPROBE
HA X	= HAND AUGER BORING
⊕	= MANHOLE
⊕	= INLET
▽	= SIGN
⊕	= POLE
⊕	= UTILITY BOX
—○—	= UNDERGROUND GAS
—▽—	= UNDERGROUND WATER
---	= PROPERTY LINE

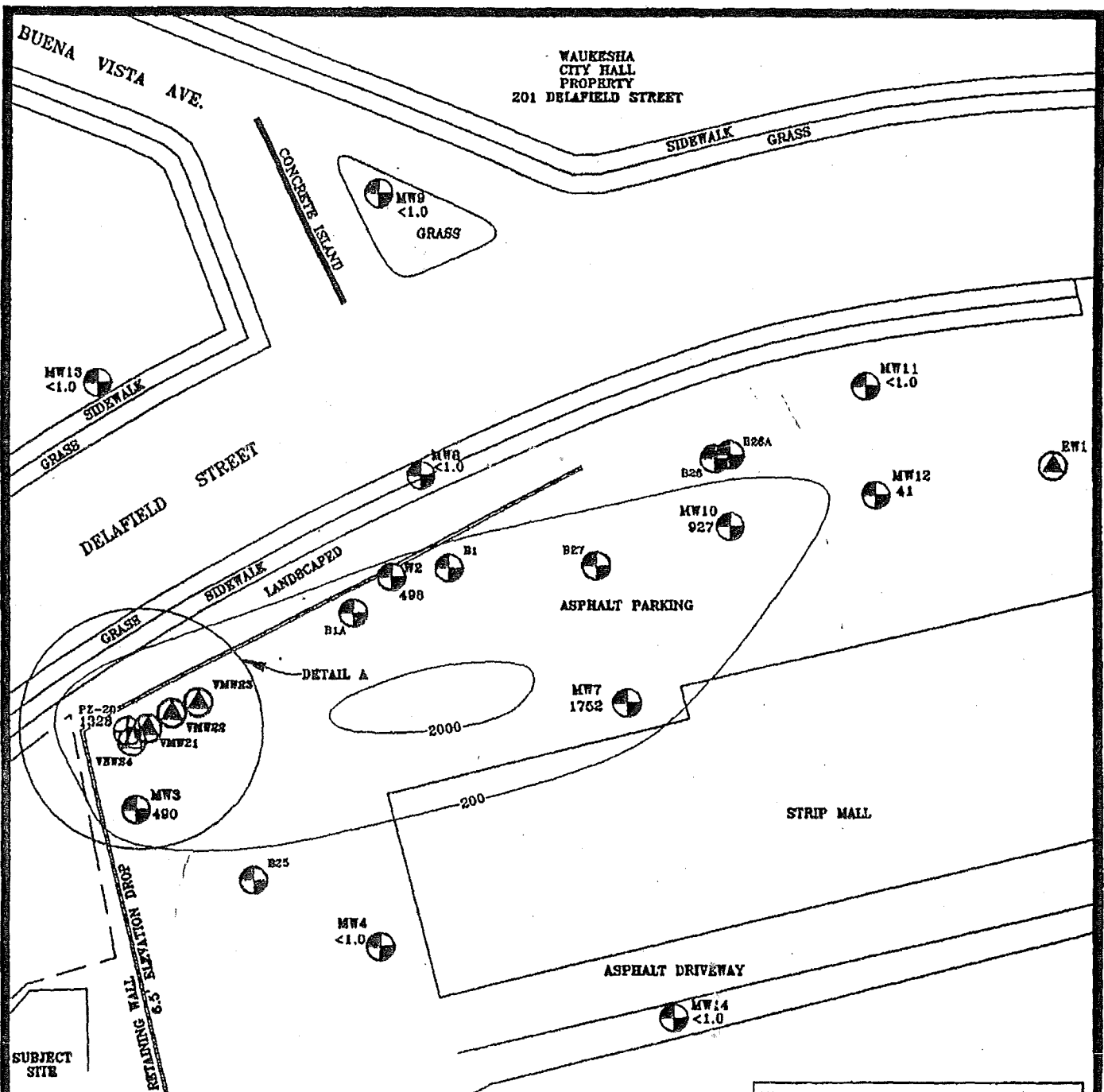
NOTES:  
 1. MAP BASED ON SURVEY COMPLETED BY WELCH HANSON DATED AUGUST 18, 2004.  
 2. INTERIOR BUILDING WALLS NOT INCLUDED IN SURVEY.  
 3. BORINGS SB-101-SB-109 AND GP-101-GP-102 BASED ON FIELD MEASUREMENTS.



GRASER TURKS 310 DELAFIELD STREET, WAUKESHA, WI		<b>SIGMA</b> ENVIRONMENTAL SERVICES INC.
DATE: 9-28-05	DR. BY: BEB DR.# 8771-010	
SITE PLAN MAP		FIGURE 1

## ATTACHMENT B

### 1996 Groundwater Plume Map Former William's Shell



**LEGEND:**

- MW4** EXISTING MONITORING WELL NUMBER AND LOCATION
- MW7** MONITORING WELL NUMBER AND LOCATION
- B25** TEST BORING NUMBER AND LOCATION
- PZ-20** PIEZOMETER NUMBER AND LOCATION
- VE23** VAPOR EXTRACTION WELL NUMBER AND LOCATION
- VMW21** VAPOR MONITORING WELL NUMBER AND LOCATION
- EW1** 8" DIAMETER EXTRACTION WELL NUMBER AND LOCATION
- NA** NOT AVAILABLE

**G E** GILES ENGINEERING ASSOCIATES, INC.  
 116 W22350 JOHNSON RD., WAUKESHA, WI. 53186  
 (614)-544-0118

**FIGURE 8**  
 MARCH 1998 PLUME MAP (HYD.P08)  
 FORMER WILLIAMS SHELL SERVICE STATION  
 318 DELAFIELD STREET  
 WAUKESHA, WISCONSIN 53186

DESIGNED	DRAWN	APPROVED	SCALE	DATE
JEB	CTM	X	1" = 50'	REV.11-21-94

PROJECT NO.: 1X-940718 CAD NO.: E940718Y

# ATTACHMENT C

## Soil Analytical Laboratory Reports 2018 Test Pits



November 21, 2018

Linda Fellenz  
LF Green Development  
5600 W Brown Deer Road  
Milwaukee, WI 53223

RE: Project: 200 DELAFIELD  
Pace Project No.: 40179384

Dear Linda Fellenz:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Steven Mleczo  
steve.mleczo@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Kate Juno, LF Green Development



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 200 DELAFIELD

Pace Project No.: 40179384

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 200 DELAFIELD  
Pace Project No.: 40179384

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40179384001	TP-3 W 2-4'	Solid	11/07/18 13:15	11/09/18 14:00
40179384002	TP-3 S 1-3'	Solid	11/07/18 13:30	11/09/18 14:00
40179384003	TP-3 E 1-3'	Solid	11/07/18 13:45	11/09/18 14:00
40179384004	TP-3 N 4-6'	Solid	11/07/18 14:00	11/09/18 14:00
40179384005	TP-3 E 4-6'	Solid	11/07/18 14:15	11/09/18 14:00
40179384006	TP-3 W 6-8'	Solid	11/07/18 14:45	11/09/18 14:00
40179384007	TP-3 S 6-8'	Solid	11/07/18 15:00	11/09/18 14:00
40179384008	TP-3 E 6-8'	Solid	11/07/18 15:15	11/09/18 14:00
40179384009	TRIP BLANK	Solid	11/07/18 00:00	11/09/18 14:00
40179386001	TP-1 8'	Solid	11/07/18 08:20	11/09/18 14:00
40179386002	TP-2 E 2-4'	Solid	11/07/18 09:00	11/09/18 14:00
40179386003	TP-2 W 2-4'	Solid	11/07/18 09:15	11/09/18 14:00
40179386004	TP-2 N 2-4'	Solid	11/07/18 09:30	11/09/18 14:00
40179386005	TP-2 S 2-4'	Solid	11/07/18 10:00	11/09/18 14:00
40179386006	TP-2 E 8-10'	Solid	11/07/18 10:15	11/09/18 14:00
40179386007	TP-2 W 8-10'	Solid	11/07/18 10:30	11/09/18 14:00
40179386008	TP-2 N 8-10'	Solid	11/07/18 10:45	11/09/18 14:00
40179386009	TP-2 S 8-10'	Solid	11/07/18 11:00	11/09/18 14:00
40179386010	TP-2 NE 10-12'	Solid	11/07/18 11:15	11/09/18 14:00
40179386011	TP-2 NE BASE 12'	Solid	11/07/18 11:30	11/09/18 14:00
40179386012	TP-2 NW BASE 12'	Solid	11/07/18 11:45	11/09/18 14:00

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### SAMPLE ANALYTE COUNT

Project: 200 DELAFIELD  
Pace Project No.: 40179384

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40179384001	TP-3 W 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179384002	TP-3 S 1-3'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179384003	TP-3 E 1-3'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179384004	TP-3 N 4-6'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179384005	TP-3 E 4-6'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179384006	TP-3 W 6-8'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179384007	TP-3 S 6-8'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179384008	TP-3 E 6-8'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179384009	TRIP BLANK	EPA 8260	MDS	64	PASI-G
40179386001	TP-1 8'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179386002	TP-2 E 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179386003	TP-2 W 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40179386004	TP-2 N 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179386005	TP-2 S 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179386006	TP-2 E 8-10'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179386007	TP-2 W 8-10'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179386008	TP-2 N 8-10'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179386009	TP-2 S 8-10'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179386010	TP-2 NE 10-12'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 200 DELAFIELD

Pace Project No.: 40179384

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40179386011	TP-2 NE BASE 12'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179386012	TP-2 NW BASE 12'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-3 W 2-4' Lab ID: 40179384001 Collected: 11/07/18 13:15 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	71-43-2	W
Bromobenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	108-86-1	W
Bromochloromethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	74-97-5	W
Bromodichloromethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	75-27-4	W
Bromoform	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	75-25-2	W
Bromomethane	<79.4	ug/kg	284	79.4	1	11/15/18 08:30	11/16/18 09:53	74-83-9	W
n-Butylbenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	104-51-8	W
sec-Butylbenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	135-98-8	W
tert-Butylbenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	98-06-6	W
Carbon tetrachloride	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	56-23-5	W
Chlorobenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	108-90-7	W
Chloroethane	<76.2	ug/kg	284	76.2	1	11/15/18 08:30	11/16/18 09:53	75-00-3	W
Chloroform	<52.8	ug/kg	284	52.8	1	11/15/18 08:30	11/16/18 09:53	67-66-3	W
Chloromethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	74-87-3	W
2-Chlorotoluene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	95-49-8	W
4-Chlorotoluene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	106-43-4	W
1,2-Dibromo-3-chloropropane	<104	ug/kg	284	104	1	11/15/18 08:30	11/16/18 09:53	96-12-8	W
Dibromochloromethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	124-48-1	W
1,2-Dibromoethane (EDB)	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	106-93-4	W
Dibromomethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	74-95-3	W
1,2-Dichlorobenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	95-50-1	W
1,3-Dichlorobenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	541-73-1	W
1,4-Dichlorobenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	106-46-7	W
Dichlorodifluoromethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	75-71-8	W
1,1-Dichloroethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	75-34-3	W
1,2-Dichloroethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	107-06-2	W
1,1-Dichloroethene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	75-35-4	W
cis-1,2-Dichloroethene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	156-59-2	W
trans-1,2-Dichloroethene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	156-60-5	W
1,2-Dichloropropane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	78-87-5	W
1,3-Dichloropropane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	142-28-9	W
2,2-Dichloropropane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	594-20-7	W
1,1-Dichloropropene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	563-58-6	W
cis-1,3-Dichloropropene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	10061-01-5	W
trans-1,3-Dichloropropene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	10061-02-6	W
Diisopropyl ether	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	108-20-3	W
Ethylbenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	100-41-4	W
Hexachloro-1,3-butadiene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	87-68-3	W
Isopropylbenzene (Cumene)	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	98-82-8	W
p-Isopropyltoluene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	99-87-6	W
Methylene Chloride	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	75-09-2	W
Methyl-tert-butyl ether	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	1634-04-4	W
Naphthalene	<45.5	ug/kg	284	45.5	1	11/15/18 08:30	11/16/18 09:53	91-20-3	W
n-Propylbenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	103-65-1	W
Styrene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	100-42-5	W

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-3 W 2-4'**      **Lab ID: 40179384001**      Collected: 11/07/18 13:15      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	630-20-6	W
1,1,2,2-Tetrachloroethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	79-34-5	W
Tetrachloroethene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	127-18-4	W
Toluene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	108-88-3	W
1,2,3-Trichlorobenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	87-61-6	W
1,2,4-Trichlorobenzene	<54.0	ug/kg	284	54.0	1	11/15/18 08:30	11/16/18 09:53	120-82-1	W
1,1,1-Trichloroethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	71-55-6	W
1,1,2-Trichloroethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	79-00-5	W
Trichloroethene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	79-01-6	W
Trichlorofluoromethane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	75-69-4	W
1,2,3-Trichloropropane	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	96-18-4	W
1,2,4-Trimethylbenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	95-63-6	W
1,3,5-Trimethylbenzene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	108-67-8	W
Vinyl chloride	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	75-01-4	W
m&p-Xylene	<56.8	ug/kg	136	56.8	1	11/15/18 08:30	11/16/18 09:53	179601-23-1	W
o-Xylene	<28.4	ug/kg	68.2	28.4	1	11/15/18 08:30	11/16/18 09:53	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	116	%	57-148		1	11/15/18 08:30	11/16/18 09:53	1868-53-7	
Toluene-d8 (S)	120	%	58-142		1	11/15/18 08:30	11/16/18 09:53	2037-26-5	
4-Bromofluorobenzene (S)	105	%	48-130		1	11/15/18 08:30	11/16/18 09:53	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	6.5	%	0.10	0.10	1		11/15/18 09:07		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample:** TP-3 S 1-3'      **Lab ID:** 40179384002      **Collected:** 11/07/18 13:30      **Received:** 11/09/18 14:00      **Matrix:** Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	71-43-2	W
Bromobenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	108-86-1	W
Bromochloromethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	74-97-5	W
Bromodichloromethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	75-27-4	W
Bromoform	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	75-25-2	W
Bromomethane	<83.2	ug/kg	298	83.2	1	11/15/18 08:30	11/16/18 10:17	74-83-9	W
n-Butylbenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	104-51-8	W
sec-Butylbenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	135-98-8	W
tert-Butylbenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	98-06-6	W
Carbon tetrachloride	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	56-23-5	W
Chlorobenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	108-90-7	W
Chloroethane	<79.8	ug/kg	298	79.8	1	11/15/18 08:30	11/16/18 10:17	75-00-3	W
Chloroform	<55.3	ug/kg	298	55.3	1	11/15/18 08:30	11/16/18 10:17	67-66-3	W
Chloromethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	74-87-3	W
2-Chlorotoluene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	95-49-8	W
4-Chlorotoluene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	106-43-4	W
1,2-Dibromo-3-chloropropane	<109	ug/kg	298	109	1	11/15/18 08:30	11/16/18 10:17	96-12-8	W
Dibromochloromethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	124-48-1	W
1,2-Dibromoethane (EDB)	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	106-93-4	W
Dibromomethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	74-95-3	W
1,2-Dichlorobenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	95-50-1	W
1,3-Dichlorobenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	541-73-1	W
1,4-Dichlorobenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	106-46-7	W
Dichlorodifluoromethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	75-71-8	W
1,1-Dichloroethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	75-34-3	W
1,2-Dichloroethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	107-06-2	W
1,1-Dichloroethene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	75-35-4	W
cis-1,2-Dichloroethene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	156-59-2	W
trans-1,2-Dichloroethene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	156-60-5	W
1,2-Dichloropropane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	78-87-5	W
1,3-Dichloropropane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	142-28-9	W
2,2-Dichloropropane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	594-20-7	W
1,1-Dichloropropene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	563-58-6	W
cis-1,3-Dichloropropene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	10061-01-5	W
trans-1,3-Dichloropropene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	10061-02-6	W
Diisopropyl ether	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	108-20-3	W
Ethylbenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	100-41-4	W
Hexachloro-1,3-butadiene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	87-68-3	W
Isopropylbenzene (Cumene)	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	98-82-8	W
p-Isopropyltoluene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	99-87-6	W
Methylene Chloride	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	75-09-2	W
Methyl-tert-butyl ether	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	1634-04-4	W
Naphthalene	<47.7	ug/kg	298	47.7	1	11/15/18 08:30	11/16/18 10:17	91-20-3	W
n-Propylbenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	103-65-1	W
Styrene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-3 S 1-3'**      **Lab ID: 40179384002**      Collected: 11/07/18 13:30      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	630-20-6	W
1,1,2,2-Tetrachloroethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	79-34-5	W
Tetrachloroethene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	127-18-4	W
Toluene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	108-88-3	W
1,2,3-Trichlorobenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	87-61-6	W
1,2,4-Trichlorobenzene	<56.6	ug/kg	298	56.6	1	11/15/18 08:30	11/16/18 10:17	120-82-1	W
1,1,1-Trichloroethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	71-55-6	W
1,1,2-Trichloroethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	79-00-5	W
Trichloroethene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	79-01-6	W
Trichlorofluoromethane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	75-69-4	W
1,2,3-Trichloropropane	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	96-18-4	W
1,2,4-Trimethylbenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	95-63-6	W
1,3,5-Trimethylbenzene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	108-67-8	W
Vinyl chloride	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	75-01-4	W
m&p-Xylene	<59.5	ug/kg	143	59.5	1	11/15/18 08:30	11/16/18 10:17	179601-23-1	W
o-Xylene	<29.8	ug/kg	71.4	29.8	1	11/15/18 08:30	11/16/18 10:17	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	57-148		1	11/15/18 08:30	11/16/18 10:17	1868-53-7	
Toluene-d8 (S)	102	%	58-142		1	11/15/18 08:30	11/16/18 10:17	2037-26-5	
4-Bromofluorobenzene (S)	97	%	48-130		1	11/15/18 08:30	11/16/18 10:17	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	5.9	%	0.10	0.10	1		11/15/18 09:07		

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-3 E 1-3'** Lab ID: **40179384003** Collected: 11/07/18 13:45 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	71-43-2	W
Bromobenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	108-86-1	W
Bromochloromethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	74-97-5	W
Bromodichloromethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	75-27-4	W
Bromoform	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	75-25-2	W
Bromomethane	<74.4	ug/kg	266	74.4	1	11/15/18 08:30	11/16/18 10:40	74-83-9	W
n-Butylbenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	104-51-8	W
sec-Butylbenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	135-98-8	W
tert-Butylbenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	98-06-6	W
Carbon tetrachloride	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	56-23-5	W
Chlorobenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	108-90-7	W
Chloroethane	<71.3	ug/kg	266	71.3	1	11/15/18 08:30	11/16/18 10:40	75-00-3	W
Chloroform	<49.4	ug/kg	266	49.4	1	11/15/18 08:30	11/16/18 10:40	67-66-3	W
Chloromethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	74-87-3	W
2-Chlorotoluene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	95-49-8	W
4-Chlorotoluene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	106-43-4	W
1,2-Dibromo-3-chloropropane	<97.1	ug/kg	266	97.1	1	11/15/18 08:30	11/16/18 10:40	96-12-8	W
Dibromochloromethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	124-48-1	W
1,2-Dibromoethane (EDB)	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	106-93-4	W
Dibromomethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	74-95-3	W
1,2-Dichlorobenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	95-50-1	W
1,3-Dichlorobenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	541-73-1	W
1,4-Dichlorobenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	106-46-7	W
Dichlorodifluoromethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	75-71-8	W
1,1-Dichloroethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	75-34-3	W
1,2-Dichloroethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	107-06-2	W
1,1-Dichloroethene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	75-35-4	W
cis-1,2-Dichloroethene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	156-59-2	W
trans-1,2-Dichloroethene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	156-60-5	W
1,2-Dichloropropane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	78-87-5	W
1,3-Dichloropropane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	142-28-9	W
2,2-Dichloropropane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	594-20-7	W
1,1-Dichloropropene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	563-58-6	W
cis-1,3-Dichloropropene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	10061-01-5	W
trans-1,3-Dichloropropene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	10061-02-6	W
Diisopropyl ether	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	108-20-3	W
Ethylbenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	100-41-4	W
Hexachloro-1,3-butadiene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	87-68-3	W
Isopropylbenzene (Cumene)	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	98-82-8	W
p-Isopropyltoluene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	99-87-6	W
Methylene Chloride	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	75-09-2	W
Methyl-tert-butyl ether	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	1634-04-4	W
Naphthalene	<42.6	ug/kg	266	42.6	1	11/15/18 08:30	11/16/18 10:40	91-20-3	W
n-Propylbenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	103-65-1	W
Styrene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-3 E 1-3'**      **Lab ID: 40179384003**      Collected: 11/07/18 13:45      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	630-20-6	W
1,1,2,2-Tetrachloroethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	79-34-5	W
Tetrachloroethene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	127-18-4	W
Toluene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	108-88-3	W
1,2,3-Trichlorobenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	87-61-6	W
1,2,4-Trichlorobenzene	<50.6	ug/kg	266	50.6	1	11/15/18 08:30	11/16/18 10:40	120-82-1	W
1,1,1-Trichloroethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	71-55-6	W
1,1,2-Trichloroethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	79-00-5	W
Trichloroethene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	79-01-6	W
Trichlorofluoromethane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	75-69-4	W
1,2,3-Trichloropropane	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	96-18-4	W
1,2,4-Trimethylbenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	95-63-6	W
1,3,5-Trimethylbenzene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	108-67-8	W
Vinyl chloride	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	75-01-4	W
m&p-Xylene	<53.2	ug/kg	128	53.2	1	11/15/18 08:30	11/16/18 10:40	179601-23-1	W
o-Xylene	<26.6	ug/kg	63.8	26.6	1	11/15/18 08:30	11/16/18 10:40	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	122	%	57-148		1	11/15/18 08:30	11/16/18 10:40	1868-53-7	
Toluene-d8 (S)	118	%	58-142		1	11/15/18 08:30	11/16/18 10:40	2037-26-5	
4-Bromofluorobenzene (S)	113	%	48-130		1	11/15/18 08:30	11/16/18 10:40	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	6.6	%	0.10	0.10	1		11/15/18 09:07		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-3 N 4-6' Lab ID: 40179384004 Collected: 11/07/18 14:00 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	71-43-2	W
Bromobenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	108-86-1	W
Bromochloromethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	74-97-5	W
Bromodichloromethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	75-27-4	W
Bromoform	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	75-25-2	W
Bromomethane	<70.6	ug/kg	253	70.6	1	11/15/18 08:30	11/16/18 11:03	74-83-9	W
n-Butylbenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	104-51-8	W
sec-Butylbenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	135-98-8	W
tert-Butylbenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	98-06-6	W
Carbon tetrachloride	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	56-23-5	W
Chlorobenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	108-90-7	W
Chloroethane	<67.7	ug/kg	253	67.7	1	11/15/18 08:30	11/16/18 11:03	75-00-3	W
Chloroform	<46.9	ug/kg	253	46.9	1	11/15/18 08:30	11/16/18 11:03	67-66-3	W
Chloromethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	74-87-3	W
2-Chlorotoluene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	95-49-8	W
4-Chlorotoluene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	106-43-4	W
1,2-Dibromo-3-chloropropane	<92.2	ug/kg	253	92.2	1	11/15/18 08:30	11/16/18 11:03	96-12-8	W
Dibromochloromethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	124-48-1	W
1,2-Dibromoethane (EDB)	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	106-93-4	W
Dibromomethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	74-95-3	W
1,2-Dichlorobenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	95-50-1	W
1,3-Dichlorobenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	541-73-1	W
1,4-Dichlorobenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	106-46-7	W
Dichlorodifluoromethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	75-71-8	W
1,1-Dichloroethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	75-34-3	W
1,2-Dichloroethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	107-06-2	W
1,1-Dichloroethene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	75-35-4	W
cis-1,2-Dichloroethene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	156-59-2	W
trans-1,2-Dichloroethene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	156-60-5	W
1,2-Dichloropropane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	78-87-5	W
1,3-Dichloropropane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	142-28-9	W
2,2-Dichloropropane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	594-20-7	W
1,1-Dichloropropene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	563-58-6	W
cis-1,3-Dichloropropene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	10061-01-5	W
trans-1,3-Dichloropropene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	10061-02-6	W
Diisopropyl ether	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	108-20-3	W
Ethylbenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	100-41-4	W
Hexachloro-1,3-butadiene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	87-68-3	W
Isopropylbenzene (Cumene)	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	98-82-8	W
p-Isopropyltoluene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	99-87-6	W
Methylene Chloride	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	75-09-2	W
Methyl-tert-butyl ether	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	1634-04-4	W
Naphthalene	<40.4	ug/kg	253	40.4	1	11/15/18 08:30	11/16/18 11:03	91-20-3	W
n-Propylbenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	103-65-1	W
Styrene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-3 N 4-6'**      **Lab ID: 40179384004**      Collected: 11/07/18 14:00      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	79-34-5	W
Tetrachloroethene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	127-18-4	W
Toluene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	108-88-3	W
1,2,3-Trichlorobenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	87-61-6	W
1,2,4-Trichlorobenzene	<48.0	ug/kg	253	48.0	1	11/15/18 08:30	11/16/18 11:03	120-82-1	W
1,1,1-Trichloroethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	71-55-6	W
1,1,2-Trichloroethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	79-00-5	W
Trichloroethene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	79-01-6	W
Trichlorofluoromethane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	75-69-4	W
1,2,3-Trichloropropane	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	96-18-4	W
1,2,4-Trimethylbenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	95-63-6	W
1,3,5-Trimethylbenzene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	108-67-8	W
Vinyl chloride	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	75-01-4	W
m&p-Xylene	<50.5	ug/kg	121	50.5	1	11/15/18 08:30	11/16/18 11:03	179601-23-1	W
o-Xylene	<25.3	ug/kg	60.6	25.3	1	11/15/18 08:30	11/16/18 11:03	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	89	%	57-148		1	11/15/18 08:30	11/16/18 11:03	1868-53-7	
Toluene-d8 (S)	90	%	58-142		1	11/15/18 08:30	11/16/18 11:03	2037-26-5	
4-Bromofluorobenzene (S)	85	%	48-130		1	11/15/18 08:30	11/16/18 11:03	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.6	%	0.10	0.10	1		11/15/18 09:07		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-3 E 4-6' Lab ID: 40179384005 Collected: 11/07/18 14:15 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:30	11/16/18 11:26	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:30	11/16/18 11:26	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:30	11/16/18 11:26	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:30	11/16/18 11:26	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:30	11/16/18 11:26	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample:** TP-3 E 4-6' **Lab ID:** 40179384005 **Collected:** 11/07/18 14:15 **Received:** 11/09/18 14:00 **Matrix:** Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:30	11/16/18 11:26	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:30	11/16/18 11:26	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 11:26	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	57-148		1	11/15/18 08:30	11/16/18 11:26	1868-53-7	
Toluene-d8 (S)	99	%	58-142		1	11/15/18 08:30	11/16/18 11:26	2037-26-5	
4-Bromofluorobenzene (S)	90	%	48-130		1	11/15/18 08:30	11/16/18 11:26	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	7.6	%	0.10	0.10	1		11/15/18 09:07		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-3 W 6-8' Lab ID: 40179384006 Collected: 11/07/18 14:45 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	71-43-2	W
Bromobenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	108-86-1	W
Bromochloromethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	74-97-5	W
Bromodichloromethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	75-27-4	W
Bromoform	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	75-25-2	W
Bromomethane	<94.5	ug/kg	338	94.5	1	11/15/18 08:30	11/16/18 11:49	74-83-9	W
n-Butylbenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	104-51-8	W
sec-Butylbenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	135-98-8	W
tert-Butylbenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	98-06-6	W
Carbon tetrachloride	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	56-23-5	W
Chlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	108-90-7	W
Chloroethane	<90.6	ug/kg	338	90.6	1	11/15/18 08:30	11/16/18 11:49	75-00-3	W
Chloroform	<62.8	ug/kg	338	62.8	1	11/15/18 08:30	11/16/18 11:49	67-66-3	W
Chloromethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	74-87-3	W
2-Chlorotoluene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	95-49-8	W
4-Chlorotoluene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	106-43-4	W
1,2-Dibromo-3-chloropropane	<123	ug/kg	338	123	1	11/15/18 08:30	11/16/18 11:49	96-12-8	W
Dibromochloromethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	124-48-1	W
1,2-Dibromoethane (EDB)	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	106-93-4	W
Dibromomethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	74-95-3	W
1,2-Dichlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	95-50-1	W
1,3-Dichlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	541-73-1	W
1,4-Dichlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	106-46-7	W
Dichlorodifluoromethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	75-71-8	W
1,1-Dichloroethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	75-34-3	W
1,2-Dichloroethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	107-06-2	W
1,1-Dichloroethene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	75-35-4	W
cis-1,2-Dichloroethene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	156-59-2	W
trans-1,2-Dichloroethene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	156-60-5	W
1,2-Dichloropropane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	78-87-5	W
1,3-Dichloropropane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	142-28-9	W
2,2-Dichloropropane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	594-20-7	W
1,1-Dichloropropene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	563-58-6	W
cis-1,3-Dichloropropene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	10061-01-5	W
trans-1,3-Dichloropropene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	10061-02-6	W
Diisopropyl ether	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	108-20-3	W
Ethylbenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	100-41-4	W
Hexachloro-1,3-butadiene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	87-68-3	W
Isopropylbenzene (Cumene)	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	98-82-8	W
p-Isopropyltoluene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	99-87-6	W
Methylene Chloride	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	75-09-2	W
Methyl-tert-butyl ether	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	1634-04-4	W
Naphthalene	<54.1	ug/kg	338	54.1	1	11/15/18 08:30	11/16/18 11:49	91-20-3	W
n-Propylbenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	103-65-1	W
Styrene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-3 W 6-8'**      **Lab ID: 40179384006**      Collected: 11/07/18 14:45      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	630-20-6	W
1,1,2,2-Tetrachloroethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	79-34-5	W
Tetrachloroethene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	127-18-4	W
Toluene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	108-88-3	W
1,2,3-Trichlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	87-61-6	W
1,2,4-Trichlorobenzene	<64.3	ug/kg	338	64.3	1	11/15/18 08:30	11/16/18 11:49	120-82-1	W
1,1,1-Trichloroethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	71-55-6	W
1,1,2-Trichloroethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	79-00-5	W
Trichloroethene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	79-01-6	W
Trichlorofluoromethane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	75-69-4	W
1,2,3-Trichloropropane	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	96-18-4	W
1,2,4-Trimethylbenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	95-63-6	W
1,3,5-Trimethylbenzene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	108-67-8	W
Vinyl chloride	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	75-01-4	W
m&p-Xylene	<67.6	ug/kg	162	67.6	1	11/15/18 08:30	11/16/18 11:49	179601-23-1	W
o-Xylene	<33.8	ug/kg	81.1	33.8	1	11/15/18 08:30	11/16/18 11:49	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	114	%	57-148		1	11/15/18 08:30	11/16/18 11:49	1868-53-7	
Toluene-d8 (S)	115	%	58-142		1	11/15/18 08:30	11/16/18 11:49	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-130		1	11/15/18 08:30	11/16/18 11:49	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	8.9	%	0.10	0.10	1		11/15/18 09:07		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample:** TP-3 S 6-8'      **Lab ID:** 40179384007      Collected: 11/07/18 15:00      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	71-43-2	W
Bromobenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	108-86-1	W
Bromochloromethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	74-97-5	W
Bromodichloromethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	75-27-4	W
Bromoform	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	75-25-2	W
Bromomethane	<76.0	ug/kg	272	76.0	1	11/15/18 08:30	11/16/18 12:12	74-83-9	W
n-Butylbenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	104-51-8	W
sec-Butylbenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	135-98-8	W
tert-Butylbenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	98-06-6	W
Carbon tetrachloride	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	56-23-5	W
Chlorobenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	108-90-7	W
Chloroethane	<72.8	ug/kg	272	72.8	1	11/15/18 08:30	11/16/18 12:12	75-00-3	W
Chloroform	<50.5	ug/kg	272	50.5	1	11/15/18 08:30	11/16/18 12:12	67-66-3	W
Chloromethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	74-87-3	W
2-Chlorotoluene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	95-49-8	W
4-Chlorotoluene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	106-43-4	W
1,2-Dibromo-3-chloropropane	<99.2	ug/kg	272	99.2	1	11/15/18 08:30	11/16/18 12:12	96-12-8	W
Dibromochloromethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	124-48-1	W
1,2-Dibromoethane (EDB)	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	106-93-4	W
Dibromomethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	74-95-3	W
1,2-Dichlorobenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	95-50-1	W
1,3-Dichlorobenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	541-73-1	W
1,4-Dichlorobenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	106-46-7	W
Dichlorodifluoromethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	75-71-8	W
1,1-Dichloroethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	75-34-3	W
1,2-Dichloroethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	107-06-2	W
1,1-Dichloroethene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	75-35-4	W
cis-1,2-Dichloroethene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	156-59-2	W
trans-1,2-Dichloroethene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	156-60-5	W
1,2-Dichloropropane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	78-87-5	W
1,3-Dichloropropane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	142-28-9	W
2,2-Dichloropropane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	594-20-7	W
1,1-Dichloropropene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	563-58-6	W
cis-1,3-Dichloropropene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	10061-01-5	W
trans-1,3-Dichloropropene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	10061-02-6	W
Diisopropyl ether	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	108-20-3	W
Ethylbenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	100-41-4	W
Hexachloro-1,3-butadiene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	87-68-3	W
Isopropylbenzene (Cumene)	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	98-82-8	W
p-Isopropyltoluene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	99-87-6	W
Methylene Chloride	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	75-09-2	W
Methyl-tert-butyl ether	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	1634-04-4	W
Naphthalene	<43.5	ug/kg	272	43.5	1	11/15/18 08:30	11/16/18 12:12	91-20-3	W
n-Propylbenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	103-65-1	W
Styrene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD  
Pace Project No.: 40179384

**Sample: TP-3 S 6-8' Lab ID: 40179384007** Collected: 11/07/18 15:00 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	630-20-6	W
1,1,2,2-Tetrachloroethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	79-34-5	W
Tetrachloroethene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	127-18-4	W
Toluene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	108-88-3	W
1,2,3-Trichlorobenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	87-61-6	W
1,2,4-Trichlorobenzene	<51.7	ug/kg	272	51.7	1	11/15/18 08:30	11/16/18 12:12	120-82-1	W
1,1,1-Trichloroethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	71-55-6	W
1,1,2-Trichloroethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	79-00-5	W
Trichloroethene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	79-01-6	W
Trichlorofluoromethane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	75-69-4	W
1,2,3-Trichloropropane	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	96-18-4	W
1,2,4-Trimethylbenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	95-63-6	W
1,3,5-Trimethylbenzene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	108-67-8	W
Vinyl chloride	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	75-01-4	W
m&p-Xylene	<54.3	ug/kg	130	54.3	1	11/15/18 08:30	11/16/18 12:12	179601-23-1	W
o-Xylene	<27.2	ug/kg	65.2	27.2	1	11/15/18 08:30	11/16/18 12:12	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	103	%	57-148		1	11/15/18 08:30	11/16/18 12:12	1868-53-7	
Toluene-d8 (S)	101	%	58-142		1	11/15/18 08:30	11/16/18 12:12	2037-26-5	
4-Bromofluorobenzene (S)	94	%	48-130		1	11/15/18 08:30	11/16/18 12:12	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>6.0</b>	%	0.10	0.10	1		11/15/18 09:08		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-3 E 6-8' Lab ID: 40179384008 Collected: 11/07/18 15:15 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	71-43-2	W
Bromobenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	108-86-1	W
Bromochloromethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	74-97-5	W
Bromodichloromethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	75-27-4	W
Bromoform	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	75-25-2	W
Bromomethane	<92.0	ug/kg	329	92.0	1	11/15/18 08:30	11/16/18 12:35	74-83-9	W
n-Butylbenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	104-51-8	W
sec-Butylbenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	135-98-8	W
tert-Butylbenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	98-06-6	W
Carbon tetrachloride	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	56-23-5	W
Chlorobenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	108-90-7	W
Chloroethane	<88.2	ug/kg	329	88.2	1	11/15/18 08:30	11/16/18 12:35	75-00-3	W
Chloroform	<61.1	ug/kg	329	61.1	1	11/15/18 08:30	11/16/18 12:35	67-66-3	W
Chloromethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	74-87-3	W
2-Chlorotoluene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	95-49-8	W
4-Chlorotoluene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	106-43-4	W
1,2-Dibromo-3-chloropropane	<120	ug/kg	329	120	1	11/15/18 08:30	11/16/18 12:35	96-12-8	W
Dibromochloromethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	124-48-1	W
1,2-Dibromoethane (EDB)	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	106-93-4	W
Dibromomethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	74-95-3	W
1,2-Dichlorobenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	95-50-1	W
1,3-Dichlorobenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	541-73-1	W
1,4-Dichlorobenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	106-46-7	W
Dichlorodifluoromethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	75-71-8	W
1,1-Dichloroethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	75-34-3	W
1,2-Dichloroethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	107-06-2	W
1,1-Dichloroethene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	75-35-4	W
cis-1,2-Dichloroethene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	156-59-2	W
trans-1,2-Dichloroethene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	156-60-5	W
1,2-Dichloropropane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	78-87-5	W
1,3-Dichloropropane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	142-28-9	W
2,2-Dichloropropane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	594-20-7	W
1,1-Dichloropropene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	563-58-6	W
cis-1,3-Dichloropropene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	10061-01-5	W
trans-1,3-Dichloropropene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	10061-02-6	W
Diisopropyl ether	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	108-20-3	W
Ethylbenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	100-41-4	W
Hexachloro-1,3-butadiene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	87-68-3	W
Isopropylbenzene (Cumene)	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	98-82-8	W
p-Isopropyltoluene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	99-87-6	W
Methylene Chloride	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	75-09-2	W
Methyl-tert-butyl ether	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	1634-04-4	W
Naphthalene	<52.7	ug/kg	329	52.7	1	11/15/18 08:30	11/16/18 12:35	91-20-3	W
n-Propylbenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	103-65-1	W
Styrene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-3 E 6-8' Lab ID: 40179384008** Collected: 11/07/18 15:15 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	630-20-6	W
1,1,2,2-Tetrachloroethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	79-34-5	W
Tetrachloroethene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	127-18-4	W
Toluene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	108-88-3	W
1,2,3-Trichlorobenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	87-61-6	W
1,2,4-Trichlorobenzene	<62.6	ug/kg	329	62.6	1	11/15/18 08:30	11/16/18 12:35	120-82-1	W
1,1,1-Trichloroethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	71-55-6	W
1,1,2-Trichloroethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	79-00-5	W
Trichloroethene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	79-01-6	W
Trichlorofluoromethane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	75-69-4	W
1,2,3-Trichloropropane	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	96-18-4	W
1,2,4-Trimethylbenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	95-63-6	W
1,3,5-Trimethylbenzene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	108-67-8	W
Vinyl chloride	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	75-01-4	W
m&p-Xylene	<65.8	ug/kg	158	65.8	1	11/15/18 08:30	11/16/18 12:35	179601-23-1	W
o-Xylene	<32.9	ug/kg	78.9	32.9	1	11/15/18 08:30	11/16/18 12:35	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	110	%	57-148		1	11/15/18 08:30	11/16/18 12:35	1868-53-7	
Toluene-d8 (S)	113	%	58-142		1	11/15/18 08:30	11/16/18 12:35	2037-26-5	
4-Bromofluorobenzene (S)	108	%	48-130		1	11/15/18 08:30	11/16/18 12:35	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.1	%	0.10	0.10	1		11/15/18 09:25		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD  
Pace Project No.: 40179384

**Sample: TRIP BLANK**      **Lab ID: 40179384009**      Collected: 11/07/18 00:00      Received: 11/09/18 14:00      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:30	11/16/18 00:36	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:30	11/16/18 00:36	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:30	11/16/18 00:36	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:30	11/16/18 00:36	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:30	11/16/18 00:36	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TRIP BLANK**      **Lab ID: 40179384009**      Collected: 11/07/18 00:00      Received: 11/09/18 14:00      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:30	11/16/18 00:36	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:30	11/16/18 00:36	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:36	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	91	%	57-148		1	11/15/18 08:30	11/16/18 00:36	1868-53-7	
Toluene-d8 (S)	87	%	58-142		1	11/15/18 08:30	11/16/18 00:36	2037-26-5	
4-Bromofluorobenzene (S)	94	%	48-130		1	11/15/18 08:30	11/16/18 00:36	460-00-4	

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-1 8' Lab ID: 40179386001 Collected: 11/07/18 08:20 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/16/18 07:30	11/16/18 21:12	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/16/18 07:30	11/16/18 21:12	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/16/18 07:30	11/16/18 21:12	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/16/18 07:30	11/16/18 21:12	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	1634-04-4	W
Naphthalene	75.2J	ug/kg	285	45.6	1	11/16/18 07:30	11/16/18 21:12	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-1 8'**      **Lab ID: 40179386001**      Collected: 11/07/18 08:20      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	79-34-5	W
Tetrachloroethene	147	ug/kg	68.3	28.5	1	11/16/18 07:30	11/16/18 21:12	127-18-4	
Toluene	40.8J	ug/kg	68.3	28.5	1	11/16/18 07:30	11/16/18 21:12	108-88-3	
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/16/18 07:30	11/16/18 21:12	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	96-18-4	W
1,2,4-Trimethylbenzene	51.0J	ug/kg	68.3	28.5	1	11/16/18 07:30	11/16/18 21:12	95-63-6	
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/16/18 07:30	11/16/18 21:12	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/16/18 07:30	11/16/18 21:12	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	95	%	57-148		1	11/16/18 07:30	11/16/18 21:12	1868-53-7	
Toluene-d8 (S)	88	%	58-142		1	11/16/18 07:30	11/16/18 21:12	2037-26-5	
4-Bromofluorobenzene (S)	84	%	48-130		1	11/16/18 07:30	11/16/18 21:12	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.2	%	0.10	0.10	1		11/15/18 09:25		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 E 2-4' Lab ID: 40179386002 Collected: 11/07/18 09:00 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	71-43-2	W
Bromobenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	108-86-1	W
Bromochloromethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	74-97-5	W
Bromodichloromethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	75-27-4	W
Bromoform	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	75-25-2	W
Bromomethane	<89.6	ug/kg	321	89.6	1	11/15/18 08:30	11/16/18 02:31	74-83-9	W
n-Butylbenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	104-51-8	W
sec-Butylbenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	135-98-8	W
tert-Butylbenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	98-06-6	W
Carbon tetrachloride	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	56-23-5	W
Chlorobenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	108-90-7	W
Chloroethane	<85.9	ug/kg	321	85.9	1	11/15/18 08:30	11/16/18 02:31	75-00-3	W
Chloroform	<59.5	ug/kg	321	59.5	1	11/15/18 08:30	11/16/18 02:31	67-66-3	W
Chloromethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	74-87-3	W
2-Chlorotoluene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	95-49-8	W
4-Chlorotoluene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	106-43-4	W
1,2-Dibromo-3-chloropropane	<117	ug/kg	321	117	1	11/15/18 08:30	11/16/18 02:31	96-12-8	W
Dibromochloromethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	124-48-1	W
1,2-Dibromoethane (EDB)	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	106-93-4	W
Dibromomethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	74-95-3	W
1,2-Dichlorobenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	95-50-1	W
1,3-Dichlorobenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	541-73-1	W
1,4-Dichlorobenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	106-46-7	W
Dichlorodifluoromethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	75-71-8	W
1,1-Dichloroethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	75-34-3	W
1,2-Dichloroethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	107-06-2	W
1,1-Dichloroethene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	75-35-4	W
cis-1,2-Dichloroethene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	156-59-2	W
trans-1,2-Dichloroethene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	156-60-5	W
1,2-Dichloropropane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	78-87-5	W
1,3-Dichloropropane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	142-28-9	W
2,2-Dichloropropane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	594-20-7	W
1,1-Dichloropropene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	563-58-6	W
cis-1,3-Dichloropropene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	10061-01-5	W
trans-1,3-Dichloropropene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	10061-02-6	W
Diisopropyl ether	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	108-20-3	W
Ethylbenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	100-41-4	W
Hexachloro-1,3-butadiene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	87-68-3	W
Isopropylbenzene (Cumene)	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	98-82-8	W
p-Isopropyltoluene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	99-87-6	W
Methylene Chloride	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	75-09-2	W
Methyl-tert-butyl ether	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	1634-04-4	W
Naphthalene	75.5J	ug/kg	338	54.2	1	11/15/18 08:30	11/16/18 02:31	91-20-3	W
n-Propylbenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	103-65-1	W
Styrene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample:** TP-2 E 2-4' **Lab ID:** 40179386002 **Collected:** 11/07/18 09:00 **Received:** 11/09/18 14:00 **Matrix:** Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	630-20-6	W
1,1,2,2-Tetrachloroethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	79-34-5	W
Tetrachloroethene	4160	ug/kg	81.2	33.8	1	11/15/18 08:30	11/16/18 02:31	127-18-4	
Toluene	69.9J	ug/kg	81.2	33.8	1	11/15/18 08:30	11/16/18 02:31	108-88-3	
1,2,3-Trichlorobenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	87-61-6	W
1,2,4-Trichlorobenzene	<61.0	ug/kg	321	61.0	1	11/15/18 08:30	11/16/18 02:31	120-82-1	W
1,1,1-Trichloroethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	71-55-6	W
1,1,2-Trichloroethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	79-00-5	W
Trichloroethene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	79-01-6	W
Trichlorofluoromethane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	75-69-4	W
1,2,3-Trichloropropane	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	96-18-4	W
1,2,4-Trimethylbenzene	37.5J	ug/kg	81.2	33.8	1	11/15/18 08:30	11/16/18 02:31	95-63-6	
1,3,5-Trimethylbenzene	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	108-67-8	W
Vinyl chloride	<32.1	ug/kg	76.9	32.1	1	11/15/18 08:30	11/16/18 02:31	75-01-4	W
m&p-Xylene	<64.1	ug/kg	154	64.1	1	11/15/18 08:30	11/16/18 02:31	179601-23-1	W
o-Xylene	45.6J	ug/kg	81.2	33.8	1	11/15/18 08:30	11/16/18 02:31	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	130	%	57-148		1	11/15/18 08:30	11/16/18 02:31	1868-53-7	
Toluene-d8 (S)	134	%	58-142		1	11/15/18 08:30	11/16/18 02:31	2037-26-5	
4-Bromofluorobenzene (S)	121	%	48-130		1	11/15/18 08:30	11/16/18 02:31	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	5.2	%	0.10	0.10	1		11/15/18 09:25		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 W 2-4' Lab ID: 40179386003 Collected: 11/07/18 09:15 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	71-43-2	W
Bromobenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	108-86-1	W
Bromochloromethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	74-97-5	W
Bromodichloromethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	75-27-4	W
Bromoform	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	75-25-2	W
Bromomethane	<118	ug/kg	424	118	1	11/15/18 08:30	11/16/18 12:59	74-83-9	W
n-Butylbenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	104-51-8	W
sec-Butylbenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	135-98-8	W
tert-Butylbenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	98-06-6	W
Carbon tetrachloride	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	56-23-5	W
Chlorobenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	108-90-7	W
Chloroethane	<114	ug/kg	424	114	1	11/15/18 08:30	11/16/18 12:59	75-00-3	W
Chloroform	<78.7	ug/kg	424	78.7	1	11/15/18 08:30	11/16/18 12:59	67-66-3	W
Chloromethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	74-87-3	W
2-Chlorotoluene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	95-49-8	W
4-Chlorotoluene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	106-43-4	W
1,2-Dibromo-3-chloropropane	<155	ug/kg	424	155	1	11/15/18 08:30	11/16/18 12:59	96-12-8	W
Dibromochloromethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	124-48-1	W
1,2-Dibromoethane (EDB)	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	106-93-4	W
Dibromomethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	74-95-3	W
1,2-Dichlorobenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	95-50-1	W
1,3-Dichlorobenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	541-73-1	W
1,4-Dichlorobenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	106-46-7	W
Dichlorodifluoromethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	75-71-8	W
1,1-Dichloroethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	75-34-3	W
1,2-Dichloroethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	107-06-2	W
1,1-Dichloroethene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	75-35-4	W
cis-1,2-Dichloroethene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	156-59-2	W
trans-1,2-Dichloroethene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	156-60-5	W
1,2-Dichloropropane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	78-87-5	W
1,3-Dichloropropane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	142-28-9	W
2,2-Dichloropropane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	594-20-7	W
1,1-Dichloropropene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	563-58-6	W
cis-1,3-Dichloropropene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	10061-01-5	W
trans-1,3-Dichloropropene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	10061-02-6	W
Diisopropyl ether	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	108-20-3	W
Ethylbenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	100-41-4	W
Hexachloro-1,3-butadiene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	87-68-3	W
Isopropylbenzene (Cumene)	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	98-82-8	W
p-Isopropyltoluene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	99-87-6	W
Methylene Chloride	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	75-09-2	W
Methyl-tert-butyl ether	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	1634-04-4	W
Naphthalene	<67.9	ug/kg	424	67.9	1	11/15/18 08:30	11/16/18 12:59	91-20-3	W
n-Propylbenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	103-65-1	W
Styrene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 W 2-4'**      **Lab ID: 40179386003**      Collected: 11/07/18 09:15      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	630-20-6	W
1,1,2,2-Tetrachloroethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	79-34-5	W
Tetrachloroethene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	127-18-4	W
Toluene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	108-88-3	W
1,2,3-Trichlorobenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	87-61-6	W
1,2,4-Trichlorobenzene	<80.6	ug/kg	424	80.6	1	11/15/18 08:30	11/16/18 12:59	120-82-1	W
1,1,1-Trichloroethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	71-55-6	W
1,1,2-Trichloroethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	79-00-5	W
Trichloroethene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	79-01-6	W
Trichlorofluoromethane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	75-69-4	W
1,2,3-Trichloropropane	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	96-18-4	W
1,2,4-Trimethylbenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	95-63-6	W
1,3,5-Trimethylbenzene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	108-67-8	W
Vinyl chloride	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	75-01-4	W
m&p-Xylene	<84.7	ug/kg	203	84.7	1	11/15/18 08:30	11/16/18 12:59	179601-23-1	W
o-Xylene	<42.4	ug/kg	102	42.4	1	11/15/18 08:30	11/16/18 12:59	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	167	%	57-148		1	11/15/18 08:30	11/16/18 12:59	1868-53-7	S3
Toluene-d8 (S)	174	%	58-142		1	11/15/18 08:30	11/16/18 12:59	2037-26-5	S3
4-Bromofluorobenzene (S)	171	%	48-130		1	11/15/18 08:30	11/16/18 12:59	460-00-4	S3
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	8.5	%	0.10	0.10	1		11/15/18 09:25		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 N 2-4' Lab ID: 40179386004 Collected: 11/07/18 09:30 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	71-43-2	W
Bromobenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	108-86-1	W
Bromochloromethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	74-97-5	W
Bromodichloromethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	75-27-4	W
Bromoform	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	75-25-2	W
Bromomethane	<155	ug/kg	556	155	2	11/15/18 08:30	11/16/18 14:31	74-83-9	W
n-Butylbenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	104-51-8	W
sec-Butylbenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	135-98-8	W
tert-Butylbenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	98-06-6	W
Carbon tetrachloride	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	56-23-5	W
Chlorobenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	108-90-7	W
Chloroethane	<149	ug/kg	556	149	2	11/15/18 08:30	11/16/18 14:31	75-00-3	W
Chloroform	<103	ug/kg	556	103	2	11/15/18 08:30	11/16/18 14:31	67-66-3	W
Chloromethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	74-87-3	W
2-Chlorotoluene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	95-49-8	W
4-Chlorotoluene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	106-43-4	W
1,2-Dibromo-3-chloropropane	<203	ug/kg	556	203	2	11/15/18 08:30	11/16/18 14:31	96-12-8	W
Dibromochloromethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	124-48-1	W
1,2-Dibromoethane (EDB)	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	106-93-4	W
Dibromomethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	74-95-3	W
1,2-Dichlorobenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	95-50-1	W
1,3-Dichlorobenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	541-73-1	W
1,4-Dichlorobenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	106-46-7	W
Dichlorodifluoromethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	75-71-8	W
1,1-Dichloroethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	75-34-3	W
1,2-Dichloroethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	107-06-2	W
1,1-Dichloroethene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	75-35-4	W
cis-1,2-Dichloroethene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	156-59-2	W
trans-1,2-Dichloroethene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	156-60-5	W
1,2-Dichloropropane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	78-87-5	W
1,3-Dichloropropane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	142-28-9	W
2,2-Dichloropropane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	594-20-7	W
1,1-Dichloropropene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	563-58-6	W
cis-1,3-Dichloropropene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	10061-01-5	W
trans-1,3-Dichloropropene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	10061-02-6	W
Diisopropyl ether	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	108-20-3	W
Ethylbenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	100-41-4	W
Hexachloro-1,3-butadiene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	87-68-3	W
Isopropylbenzene (Cumene)	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	98-82-8	W
p-Isopropyltoluene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	99-87-6	W
Methylene Chloride	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	75-09-2	W
Methyl-tert-butyl ether	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	1634-04-4	W
Naphthalene	113J	ug/kg	588	94.3	2	11/15/18 08:30	11/16/18 14:31	91-20-3	
n-Propylbenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	103-65-1	W
Styrene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 N 2-4'**      **Lab ID: 40179386004**      Collected: 11/07/18 09:30      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	630-20-6	W
1,1,2,2-Tetrachloroethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	79-34-5	W
Tetrachloroethene	6110	ug/kg	141	58.8	2	11/15/18 08:30	11/16/18 14:31	127-18-4	
Toluene	110J	ug/kg	141	58.8	2	11/15/18 08:30	11/16/18 14:31	108-88-3	
1,2,3-Trichlorobenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	87-61-6	W
1,2,4-Trichlorobenzene	<106	ug/kg	556	106	2	11/15/18 08:30	11/16/18 14:31	120-82-1	W
1,1,1-Trichloroethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	71-55-6	W
1,1,2-Trichloroethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	79-00-5	W
Trichloroethene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	79-01-6	W
Trichlorofluoromethane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	75-69-4	W
1,2,3-Trichloropropane	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	96-18-4	W
1,2,4-Trimethylbenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	95-63-6	W
1,3,5-Trimethylbenzene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	108-67-8	W
Vinyl chloride	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	75-01-4	W
m&p-Xylene	<111	ug/kg	267	111	2	11/15/18 08:30	11/16/18 14:31	179601-23-1	W
o-Xylene	<55.6	ug/kg	133	55.6	2	11/15/18 08:30	11/16/18 14:31	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	149	%	57-148		2	11/15/18 08:30	11/16/18 14:31	1868-53-7	S1
Toluene-d8 (S)	143	%	58-142		2	11/15/18 08:30	11/16/18 14:31	2037-26-5	S1
4-Bromofluorobenzene (S)	125	%	48-130		2	11/15/18 08:30	11/16/18 14:31	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	5.6	%	0.10	0.10	1		11/20/18 10:27		

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD  
Pace Project No.: 40179384

**Sample:** TP-2 S 2-4' **Lab ID:** 40179386005 **Collected:** 11/07/18 10:00 **Received:** 11/09/18 14:00 **Matrix:** Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	71-43-2	W
Bromobenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	108-86-1	W
Bromochloromethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	74-97-5	W
Bromodichloromethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	75-27-4	W
Bromoform	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	75-25-2	W
Bromomethane	<76.8	ug/kg	275	76.8	1	11/15/18 08:30	11/16/18 13:22	74-83-9	W
n-Butylbenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	104-51-8	W
sec-Butylbenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	135-98-8	W
tert-Butylbenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	98-06-6	W
Carbon tetrachloride	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	56-23-5	W
Chlorobenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	108-90-7	W
Chloroethane	<73.6	ug/kg	275	73.6	1	11/15/18 08:30	11/16/18 13:22	75-00-3	W
Chloroform	<51.0	ug/kg	275	51.0	1	11/15/18 08:30	11/16/18 13:22	67-66-3	W
Chloromethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	74-87-3	W
2-Chlorotoluene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	95-49-8	W
4-Chlorotoluene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	106-43-4	W
1,2-Dibromo-3-chloropropane	<100	ug/kg	275	100	1	11/15/18 08:30	11/16/18 13:22	96-12-8	W
Dibromochloromethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	124-48-1	W
1,2-Dibromoethane (EDB)	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	106-93-4	W
Dibromomethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	74-95-3	W
1,2-Dichlorobenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	95-50-1	W
1,3-Dichlorobenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	541-73-1	W
1,4-Dichlorobenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	106-46-7	W
Dichlorodifluoromethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	75-71-8	W
1,1-Dichloroethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	75-34-3	W
1,2-Dichloroethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	107-06-2	W
1,1-Dichloroethene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	75-35-4	W
cis-1,2-Dichloroethene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	156-59-2	W
trans-1,2-Dichloroethene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	156-60-5	W
1,2-Dichloropropane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	78-87-5	W
1,3-Dichloropropane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	142-28-9	W
2,2-Dichloropropane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	594-20-7	W
1,1-Dichloropropene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	563-58-6	W
cis-1,3-Dichloropropene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	10061-01-5	W
trans-1,3-Dichloropropene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	10061-02-6	W
Diisopropyl ether	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	108-20-3	W
Ethylbenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	100-41-4	W
Hexachloro-1,3-butadiene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	87-68-3	W
Isopropylbenzene (Cumene)	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	98-82-8	W
p-Isopropyltoluene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	99-87-6	W
Methylene Chloride	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	75-09-2	W
Methyl-tert-butyl ether	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	1634-04-4	W
Naphthalene	<44.0	ug/kg	275	44.0	1	11/15/18 08:30	11/16/18 13:22	91-20-3	W
n-Propylbenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	103-65-1	W
Styrene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 S 2-4' Lab ID: 40179386005** Collected: 11/07/18 10:00 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	630-20-6	W
1,1,2,2-Tetrachloroethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	79-34-5	W
Tetrachloroethene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	127-18-4	W
Toluene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	108-88-3	W
1,2,3-Trichlorobenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	87-61-6	W
1,2,4-Trichlorobenzene	<52.3	ug/kg	275	52.3	1	11/15/18 08:30	11/16/18 13:22	120-82-1	W
1,1,1-Trichloroethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	71-55-6	W
1,1,2-Trichloroethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	79-00-5	W
Trichloroethene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	79-01-6	W
Trichlorofluoromethane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	75-69-4	W
1,2,3-Trichloropropane	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	96-18-4	W
1,2,4-Trimethylbenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	95-63-6	W
1,3,5-Trimethylbenzene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	108-67-8	W
Vinyl chloride	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	75-01-4	W
m&p-Xylene	<54.9	ug/kg	132	54.9	1	11/15/18 08:30	11/16/18 13:22	179601-23-1	W
o-Xylene	<27.5	ug/kg	65.9	27.5	1	11/15/18 08:30	11/16/18 13:22	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	57-148		1	11/15/18 08:30	11/16/18 13:22	1868-53-7	
Toluene-d8 (S)	104	%	58-142		1	11/15/18 08:30	11/16/18 13:22	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-130		1	11/15/18 08:30	11/16/18 13:22	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	9.9	%	0.10	0.10	1		11/20/18 10:28		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 E 8-10' Lab ID: 40179386006 Collected: 11/07/18 10:15 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	71-43-2	W
Bromobenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	108-86-1	W
Bromochloromethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	74-97-5	W
Bromodichloromethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	75-27-4	W
Bromoform	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	75-25-2	W
Bromomethane	<90.8	ug/kg	325	90.8	1	11/15/18 08:30	11/16/18 14:08	74-83-9	W
n-Butylbenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	104-51-8	W
sec-Butylbenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	135-98-8	W
tert-Butylbenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	98-06-6	W
Carbon tetrachloride	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	56-23-5	W
Chlorobenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	108-90-7	W
Chloroethane	<87.0	ug/kg	325	87.0	1	11/15/18 08:30	11/16/18 14:08	75-00-3	W
Chloroform	<60.3	ug/kg	325	60.3	1	11/15/18 08:30	11/16/18 14:08	67-66-3	W
Chloromethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	74-87-3	W
2-Chlorotoluene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	95-49-8	W
4-Chlorotoluene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	106-43-4	W
1,2-Dibromo-3-chloropropane	<118	ug/kg	325	118	1	11/15/18 08:30	11/16/18 14:08	96-12-8	W
Dibromochloromethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	124-48-1	W
1,2-Dibromoethane (EDB)	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	106-93-4	W
Dibromomethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	74-95-3	W
1,2-Dichlorobenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	95-50-1	W
1,3-Dichlorobenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	541-73-1	W
1,4-Dichlorobenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	106-46-7	W
Dichlorodifluoromethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	75-71-8	W
1,1-Dichloroethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	75-34-3	W
1,2-Dichloroethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	107-06-2	W
1,1-Dichloroethene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	75-35-4	W
cis-1,2-Dichloroethene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	156-59-2	W
trans-1,2-Dichloroethene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	156-60-5	W
1,2-Dichloropropane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	78-87-5	W
1,3-Dichloropropane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	142-28-9	W
2,2-Dichloropropane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	594-20-7	W
1,1-Dichloropropene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	563-58-6	W
cis-1,3-Dichloropropene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	10061-01-5	W
trans-1,3-Dichloropropene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	10061-02-6	W
Diisopropyl ether	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	108-20-3	W
Ethylbenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	100-41-4	W
Hexachloro-1,3-butadiene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	87-68-3	W
Isopropylbenzene (Cumene)	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	98-82-8	W
p-Isopropyltoluene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	99-87-6	W
Methylene Chloride	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	75-09-2	W
Methyl-tert-butyl ether	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	1634-04-4	W
Naphthalene	<52.0	ug/kg	325	52.0	1	11/15/18 08:30	11/16/18 14:08	91-20-3	W
n-Propylbenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	103-65-1	W
Styrene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	100-42-5	W

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 E 8-10'**      **Lab ID: 40179386006**      Collected: 11/07/18 10:15      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	630-20-6	W
1,1,2,2-Tetrachloroethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	79-34-5	W
Tetrachloroethene	3430	ug/kg	100	41.8	1	11/15/18 08:30	11/16/18 14:08	127-18-4	
Toluene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	108-88-3	W
1,2,3-Trichlorobenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	87-61-6	W
1,2,4-Trichlorobenzene	<61.8	ug/kg	325	61.8	1	11/15/18 08:30	11/16/18 14:08	120-82-1	W
1,1,1-Trichloroethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	71-55-6	W
1,1,2-Trichloroethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	79-00-5	W
Trichloroethene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	79-01-6	W
Trichlorofluoromethane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	75-69-4	W
1,2,3-Trichloropropane	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	96-18-4	W
1,2,4-Trimethylbenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	95-63-6	W
1,3,5-Trimethylbenzene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	108-67-8	W
Vinyl chloride	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	75-01-4	W
m&p-Xylene	<64.9	ug/kg	156	64.9	1	11/15/18 08:30	11/16/18 14:08	179601-23-1	W
o-Xylene	<32.5	ug/kg	77.9	32.5	1	11/15/18 08:30	11/16/18 14:08	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	141	%	57-148		1	11/15/18 08:30	11/16/18 14:08	1868-53-7	
Toluene-d8 (S)	134	%	58-142		1	11/15/18 08:30	11/16/18 14:08	2037-26-5	
4-Bromofluorobenzene (S)	118	%	48-130		1	11/15/18 08:30	11/16/18 14:08	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	22.4	%	0.10	0.10	1		11/20/18 10:28		

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 W 8-10' Lab ID: 40179386007 Collected: 11/07/18 10:30 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	71-43-2	W
Bromobenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	108-86-1	W
Bromochloromethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	74-97-5	W
Bromodichloromethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	75-27-4	W
Bromoform	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	75-25-2	W
Bromomethane	<98.5	ug/kg	352	98.5	1	11/15/18 08:30	11/16/18 13:45	74-83-9	W
n-Butylbenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	104-51-8	W
sec-Butylbenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	135-98-8	W
tert-Butylbenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	98-06-6	W
Carbon tetrachloride	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	56-23-5	W
Chlorobenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	108-90-7	W
Chloroethane	<94.4	ug/kg	352	94.4	1	11/15/18 08:30	11/16/18 13:45	75-00-3	W
Chloroform	<65.4	ug/kg	352	65.4	1	11/15/18 08:30	11/16/18 13:45	67-66-3	W
Chloromethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	74-87-3	W
2-Chlorotoluene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	95-49-8	W
4-Chlorotoluene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	106-43-4	W
1,2-Dibromo-3-chloropropane	<129	ug/kg	352	129	1	11/15/18 08:30	11/16/18 13:45	96-12-8	W
Dibromochloromethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	124-48-1	W
1,2-Dibromoethane (EDB)	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	106-93-4	W
Dibromomethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	74-95-3	W
1,2-Dichlorobenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	95-50-1	W
1,3-Dichlorobenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	541-73-1	W
1,4-Dichlorobenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	106-46-7	W
Dichlorodifluoromethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	75-71-8	W
1,1-Dichloroethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	75-34-3	W
1,2-Dichloroethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	107-06-2	W
1,1-Dichloroethene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	75-35-4	W
cis-1,2-Dichloroethene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	156-59-2	W
trans-1,2-Dichloroethene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	156-60-5	W
1,2-Dichloropropane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	78-87-5	W
1,3-Dichloropropane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	142-28-9	W
2,2-Dichloropropane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	594-20-7	W
1,1-Dichloropropene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	563-58-6	W
cis-1,3-Dichloropropene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	10061-01-5	W
trans-1,3-Dichloropropene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	10061-02-6	W
Diisopropyl ether	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	108-20-3	W
Ethylbenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	100-41-4	W
Hexachloro-1,3-butadiene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	87-68-3	W
Isopropylbenzene (Cumene)	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	98-82-8	W
p-Isopropyltoluene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	99-87-6	W
Methylene Chloride	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	75-09-2	W
Methyl-tert-butyl ether	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	1634-04-4	W
Naphthalene	<56.4	ug/kg	352	56.4	1	11/15/18 08:30	11/16/18 13:45	91-20-3	W
n-Propylbenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	103-65-1	W
Styrene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 W 8-10'**      **Lab ID: 40179386007**      Collected: 11/07/18 10:30      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	630-20-6	W
1,1,2,2-Tetrachloroethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	79-34-5	W
Tetrachloroethene	1990	ug/kg	122	51.0	1	11/15/18 08:30	11/16/18 13:45	127-18-4	
Toluene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	108-88-3	W
1,2,3-Trichlorobenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	87-61-6	W
1,2,4-Trichlorobenzene	<67.0	ug/kg	352	67.0	1	11/15/18 08:30	11/16/18 13:45	120-82-1	W
1,1,1-Trichloroethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	71-55-6	W
1,1,2-Trichloroethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	79-00-5	W
Trichloroethene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	79-01-6	W
Trichlorofluoromethane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	75-69-4	W
1,2,3-Trichloropropane	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	96-18-4	W
1,2,4-Trimethylbenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	95-63-6	W
1,3,5-Trimethylbenzene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	108-67-8	W
Vinyl chloride	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	75-01-4	W
m&p-Xylene	<70.4	ug/kg	169	70.4	1	11/15/18 08:30	11/16/18 13:45	179601-23-1	W
o-Xylene	<35.2	ug/kg	84.5	35.2	1	11/15/18 08:30	11/16/18 13:45	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	153	%	57-148		1	11/15/18 08:30	11/16/18 13:45	1868-53-7	1q
Toluene-d8 (S)	145	%	58-142		1	11/15/18 08:30	11/16/18 13:45	2037-26-5	1q
4-Bromofluorobenzene (S)	139	%	48-130		1	11/15/18 08:30	11/16/18 13:45	460-00-4	1q
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	30.9	%	0.10	0.10	1		11/20/18 10:28		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 N 8-10' Lab ID: 40179386008 Collected: 11/07/18 10:45 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	71-43-2	W
Bromobenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	108-86-1	W
Bromochloromethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	74-97-5	W
Bromodichloromethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	75-27-4	W
Bromoform	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	75-25-2	W
Bromomethane	<164	ug/kg	588	164	2	11/16/18 07:30	11/17/18 01:26	74-83-9	W
n-Butylbenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	104-51-8	W
sec-Butylbenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	135-98-8	W
tert-Butylbenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	98-06-6	W
Carbon tetrachloride	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	56-23-5	W
Chlorobenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	108-90-7	W
Chloroethane	<158	ug/kg	588	158	2	11/16/18 07:30	11/17/18 01:26	75-00-3	W
Chloroform	<109	ug/kg	588	109	2	11/16/18 07:30	11/17/18 01:26	67-66-3	W
Chloromethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	74-87-3	W
2-Chlorotoluene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	95-49-8	W
4-Chlorotoluene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	106-43-4	W
1,2-Dibromo-3-chloropropane	<215	ug/kg	588	215	2	11/16/18 07:30	11/17/18 01:26	96-12-8	W
Dibromochloromethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	124-48-1	W
1,2-Dibromoethane (EDB)	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	106-93-4	W
Dibromomethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	74-95-3	W
1,2-Dichlorobenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	95-50-1	W
1,3-Dichlorobenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	541-73-1	W
1,4-Dichlorobenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	106-46-7	W
Dichlorodifluoromethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	75-71-8	W
1,1-Dichloroethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	75-34-3	W
1,2-Dichloroethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	107-06-2	W
1,1-Dichloroethene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	75-35-4	W
cis-1,2-Dichloroethene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	156-59-2	W
trans-1,2-Dichloroethene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	156-60-5	W
1,2-Dichloropropane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	78-87-5	W
1,3-Dichloropropane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	142-28-9	W
2,2-Dichloropropane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	594-20-7	W
1,1-Dichloropropene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	563-58-6	W
cis-1,3-Dichloropropene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	10061-01-5	W
trans-1,3-Dichloropropene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	10061-02-6	W
Diisopropyl ether	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	108-20-3	W
Ethylbenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	100-41-4	W
Hexachloro-1,3-butadiene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	87-68-3	W
Isopropylbenzene (Cumene)	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	98-82-8	W
p-Isopropyltoluene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	99-87-6	W
Methylene Chloride	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	75-09-2	W
Methyl-tert-butyl ether	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	1634-04-4	W
Naphthalene	<94.2	ug/kg	588	94.2	2	11/16/18 07:30	11/17/18 01:26	91-20-3	W
n-Propylbenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	103-65-1	W
Styrene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 N 8-10'**      **Lab ID: 40179386008**      Collected: 11/07/18 10:45      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	630-20-6	W
1,1,2,2-Tetrachloroethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	79-34-5	W
Tetrachloroethene	6000	ug/kg	168	70.2	2	11/16/18 07:30	11/17/18 01:26	127-18-4	
Toluene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	108-88-3	W
1,2,3-Trichlorobenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	87-61-6	W
1,2,4-Trichlorobenzene	<112	ug/kg	588	112	2	11/16/18 07:30	11/17/18 01:26	120-82-1	W
1,1,1-Trichloroethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	71-55-6	W
1,1,2-Trichloroethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	79-00-5	W
Trichloroethene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	79-01-6	W
Trichlorofluoromethane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	75-69-4	W
1,2,3-Trichloropropane	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	96-18-4	W
1,2,4-Trimethylbenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	95-63-6	W
1,3,5-Trimethylbenzene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	108-67-8	W
Vinyl chloride	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	75-01-4	W
m&p-Xylene	<118	ug/kg	282	118	2	11/16/18 07:30	11/17/18 01:26	179601-23-1	W
o-Xylene	<58.8	ug/kg	141	58.8	2	11/16/18 07:30	11/17/18 01:26	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	137	%	57-148		2	11/16/18 07:30	11/17/18 01:26	1868-53-7	
Toluene-d8 (S)	140	%	58-142		2	11/16/18 07:30	11/17/18 01:26	2037-26-5	
4-Bromofluorobenzene (S)	120	%	48-130		2	11/16/18 07:30	11/17/18 01:26	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	16.2	%	0.10	0.10	1		11/20/18 10:28		

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 S 8-10'** Lab ID: **40179386009** Collected: 11/07/18 11:00 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	71-43-2	W
Bromobenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	108-86-1	W
Bromochloromethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	74-97-5	W
Bromodichloromethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	75-27-4	W
Bromoform	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	75-25-2	W
Bromomethane	<111	ug/kg	397	111	1	11/16/18 07:30	11/17/18 00:40	74-83-9	W
n-Butylbenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	104-51-8	W
sec-Butylbenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	135-98-8	W
tert-Butylbenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	98-06-6	W
Carbon tetrachloride	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	56-23-5	W
Chlorobenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	108-90-7	W
Chloroethane	<106	ug/kg	397	106	1	11/16/18 07:30	11/17/18 00:40	75-00-3	W
Chloroform	<73.7	ug/kg	397	73.7	1	11/16/18 07:30	11/17/18 00:40	67-66-3	W
Chloromethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	74-87-3	W
2-Chlorotoluene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	95-49-8	W
4-Chlorotoluene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	106-43-4	W
1,2-Dibromo-3-chloropropane	<145	ug/kg	397	145	1	11/16/18 07:30	11/17/18 00:40	96-12-8	W
Dibromochloromethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	124-48-1	W
1,2-Dibromoethane (EDB)	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	106-93-4	W
Dibromomethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	74-95-3	W
1,2-Dichlorobenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	95-50-1	W
1,3-Dichlorobenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	541-73-1	W
1,4-Dichlorobenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	106-46-7	W
Dichlorodifluoromethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	75-71-8	W
1,1-Dichloroethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	75-34-3	W
1,2-Dichloroethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	107-06-2	W
1,1-Dichloroethene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	75-35-4	W
cis-1,2-Dichloroethene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	156-59-2	W
trans-1,2-Dichloroethene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	156-60-5	W
1,2-Dichloropropane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	78-87-5	W
1,3-Dichloropropane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	142-28-9	W
2,2-Dichloropropane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	594-20-7	W
1,1-Dichloropropene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	563-58-6	W
cis-1,3-Dichloropropene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	10061-01-5	W
trans-1,3-Dichloropropene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	10061-02-6	W
Diisopropyl ether	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	108-20-3	W
Ethylbenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	100-41-4	W
Hexachloro-1,3-butadiene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	87-68-3	W
Isopropylbenzene (Cumene)	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	98-82-8	W
p-Isopropyltoluene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	99-87-6	W
Methylene Chloride	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	75-09-2	W
Methyl-tert-butyl ether	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	1634-04-4	W
Naphthalene	<63.6	ug/kg	397	63.6	1	11/16/18 07:30	11/17/18 00:40	91-20-3	W
n-Propylbenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	103-65-1	W
Styrene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 S 8-10'**      **Lab ID: 40179386009**      Collected: 11/07/18 11:00      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	630-20-6	W
1,1,2,2-Tetrachloroethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	79-34-5	W
Tetrachloroethene	3410	ug/kg	134	55.8	1	11/16/18 07:30	11/17/18 00:40	127-18-4	
Toluene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	108-88-3	W
1,2,3-Trichlorobenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	87-61-6	W
1,2,4-Trichlorobenzene	<75.5	ug/kg	397	75.5	1	11/16/18 07:30	11/17/18 00:40	120-82-1	W
1,1,1-Trichloroethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	71-55-6	W
1,1,2-Trichloroethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	79-00-5	W
Trichloroethene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	79-01-6	W
Trichlorofluoromethane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	75-69-4	W
1,2,3-Trichloropropane	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	96-18-4	W
1,2,4-Trimethylbenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	95-63-6	W
1,3,5-Trimethylbenzene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	108-67-8	W
Vinyl chloride	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	75-01-4	W
m&p-Xylene	<79.4	ug/kg	190	79.4	1	11/16/18 07:30	11/17/18 00:40	179601-23-1	W
o-Xylene	<39.7	ug/kg	95.2	39.7	1	11/16/18 07:30	11/17/18 00:40	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	134	%	57-148		1	11/16/18 07:30	11/17/18 00:40	1868-53-7	
Toluene-d8 (S)	132	%	58-142		1	11/16/18 07:30	11/17/18 00:40	2037-26-5	
4-Bromofluorobenzene (S)	116	%	48-130		1	11/16/18 07:30	11/17/18 00:40	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	28.8	%	0.10	0.10	1		11/20/18 10:28		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 NE 10-12' Lab ID: 40179386010 Collected: 11/07/18 11:15 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	71-43-2	W
Bromobenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	108-86-1	W
Bromochloromethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	74-97-5	W
Bromodichloromethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	75-27-4	W
Bromoform	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	75-25-2	W
Bromomethane	<71.3	ug/kg	255	71.3	1	11/16/18 07:30	11/16/18 21:35	74-83-9	W
n-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	104-51-8	W
sec-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	135-98-8	W
tert-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	98-06-6	W
Carbon tetrachloride	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	56-23-5	W
Chlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	108-90-7	W
Chloroethane	<68.4	ug/kg	255	68.4	1	11/16/18 07:30	11/16/18 21:35	75-00-3	W
Chloroform	<47.4	ug/kg	255	47.4	1	11/16/18 07:30	11/16/18 21:35	67-66-3	W
Chloromethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	74-87-3	W
2-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	95-49-8	W
4-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	106-43-4	W
1,2-Dibromo-3-chloropropane	<93.1	ug/kg	255	93.1	1	11/16/18 07:30	11/16/18 21:35	96-12-8	W
Dibromochloromethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	124-48-1	W
1,2-Dibromoethane (EDB)	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	106-93-4	W
Dibromomethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	74-95-3	W
1,2-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	95-50-1	W
1,3-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	541-73-1	W
1,4-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	106-46-7	W
Dichlorodifluoromethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	75-71-8	W
1,1-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	75-34-3	W
1,2-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	107-06-2	W
1,1-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	75-35-4	W
cis-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	156-59-2	W
trans-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	156-60-5	W
1,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	78-87-5	W
1,3-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	142-28-9	W
2,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	594-20-7	W
1,1-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	563-58-6	W
cis-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	10061-01-5	W
trans-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	10061-02-6	W
Diisopropyl ether	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	108-20-3	W
Ethylbenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	98-82-8	W
p-Isopropyltoluene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	99-87-6	W
Methylene Chloride	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	75-09-2	W
Methyl-tert-butyl ether	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	1634-04-4	W
Naphthalene	<40.9	ug/kg	255	40.9	1	11/16/18 07:30	11/16/18 21:35	91-20-3	W
n-Propylbenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	103-65-1	W
Styrene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	100-42-5	W

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample:** TP-2 NE 10-12' **Lab ID:** 40179386010 **Collected:** 11/07/18 11:15 **Received:** 11/09/18 14:00 **Matrix:** Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	79-34-5	W
Tetrachloroethene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	127-18-4	W
Toluene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	108-88-3	W
1,2,3-Trichlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	87-61-6	W
1,2,4-Trichlorobenzene	<48.5	ug/kg	255	48.5	1	11/16/18 07:30	11/16/18 21:35	120-82-1	W
1,1,1-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	71-55-6	W
1,1,2-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	79-00-5	W
Trichloroethene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	79-01-6	W
Trichlorofluoromethane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	75-69-4	W
1,2,3-Trichloropropane	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	96-18-4	W
1,2,4-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	95-63-6	W
1,3,5-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	108-67-8	W
Vinyl chloride	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	75-01-4	W
m&p-Xylene	<51.0	ug/kg	122	51.0	1	11/16/18 07:30	11/16/18 21:35	179601-23-1	W
o-Xylene	<25.5	ug/kg	61.2	25.5	1	11/16/18 07:30	11/16/18 21:35	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	119	%	57-148		1	11/16/18 07:30	11/16/18 21:35	1868-53-7	
Toluene-d8 (S)	125	%	58-142		1	11/16/18 07:30	11/16/18 21:35	2037-26-5	
4-Bromofluorobenzene (S)	118	%	48-130		1	11/16/18 07:30	11/16/18 21:35	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	18.5	%	0.10	0.10	1		11/20/18 10:28		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 NE BASE 12' Lab ID: 40179386011 Collected: 11/07/18 11:30 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	71-43-2	W
Bromobenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	108-86-1	W
Bromochloromethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	74-97-5	W
Bromodichloromethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	75-27-4	W
Bromoform	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	75-25-2	W
Bromomethane	<78.5	ug/kg	281	78.5	1	11/16/18 07:30	11/16/18 21:58	74-83-9	W
n-Butylbenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	104-51-8	W
sec-Butylbenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	135-98-8	W
tert-Butylbenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	98-06-6	W
Carbon tetrachloride	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	56-23-5	W
Chlorobenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	108-90-7	W
Chloroethane	<75.3	ug/kg	281	75.3	1	11/16/18 07:30	11/16/18 21:58	75-00-3	W
Chloroform	<52.2	ug/kg	281	52.2	1	11/16/18 07:30	11/16/18 21:58	67-66-3	W
Chloromethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	74-87-3	W
2-Chlorotoluene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	95-49-8	W
4-Chlorotoluene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	106-43-4	W
1,2-Dibromo-3-chloropropane	<103	ug/kg	281	103	1	11/16/18 07:30	11/16/18 21:58	96-12-8	W
Dibromochloromethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	124-48-1	W
1,2-Dibromoethane (EDB)	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	106-93-4	W
Dibromomethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	74-95-3	W
1,2-Dichlorobenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	95-50-1	W
1,3-Dichlorobenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	541-73-1	W
1,4-Dichlorobenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	106-46-7	W
Dichlorodifluoromethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	75-71-8	W
1,1-Dichloroethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	75-34-3	W
1,2-Dichloroethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	107-06-2	W
1,1-Dichloroethene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	75-35-4	W
cis-1,2-Dichloroethene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	156-59-2	W
trans-1,2-Dichloroethene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	156-60-5	W
1,2-Dichloropropane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	78-87-5	W
1,3-Dichloropropane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	142-28-9	W
2,2-Dichloropropane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	594-20-7	W
1,1-Dichloropropene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	563-58-6	W
cis-1,3-Dichloropropene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	10061-01-5	W
trans-1,3-Dichloropropene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	10061-02-6	W
Diisopropyl ether	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	108-20-3	W
Ethylbenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	100-41-4	W
Hexachloro-1,3-butadiene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	87-68-3	W
Isopropylbenzene (Cumene)	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	98-82-8	W
p-Isopropyltoluene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	99-87-6	W
Methylene Chloride	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	75-09-2	W
Methyl-tert-butyl ether	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	1634-04-4	W
Naphthalene	<45.0	ug/kg	281	45.0	1	11/16/18 07:30	11/16/18 21:58	91-20-3	W
n-Propylbenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	103-65-1	W
Styrene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	100-42-5	W

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 NE BASE 12'**      **Lab ID: 40179386011**      Collected: 11/07/18 11:30      Received: 11/09/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	630-20-6	W
1,1,2,2-Tetrachloroethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	79-34-5	W
Tetrachloroethene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	127-18-4	W
Toluene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	108-88-3	W
1,2,3-Trichlorobenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	87-61-6	W
1,2,4-Trichlorobenzene	<53.4	ug/kg	281	53.4	1	11/16/18 07:30	11/16/18 21:58	120-82-1	W
1,1,1-Trichloroethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	71-55-6	W
1,1,2-Trichloroethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	79-00-5	W
Trichloroethene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	79-01-6	W
Trichlorofluoromethane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	75-69-4	W
1,2,3-Trichloropropane	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	96-18-4	W
1,2,4-Trimethylbenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	95-63-6	W
1,3,5-Trimethylbenzene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	108-67-8	W
Vinyl chloride	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	75-01-4	W
m&p-Xylene	<56.2	ug/kg	135	56.2	1	11/16/18 07:30	11/16/18 21:58	179601-23-1	W
o-Xylene	<28.1	ug/kg	67.4	28.1	1	11/16/18 07:30	11/16/18 21:58	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	100	%	57-148		1	11/16/18 07:30	11/16/18 21:58	1868-53-7	
Toluene-d8 (S)	100	%	58-142		1	11/16/18 07:30	11/16/18 21:58	2037-26-5	
4-Bromofluorobenzene (S)	96	%	48-130		1	11/16/18 07:30	11/16/18 21:58	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.1	%	0.10	0.10	1		11/20/18 10:28		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

Sample: TP-2 NW BASE 12' Lab ID: 40179386012 Collected: 11/07/18 11:45 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	71-43-2	W
Bromobenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	108-86-1	W
Bromochloromethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	74-97-5	W
Bromodichloromethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	75-27-4	W
Bromoform	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	75-25-2	W
Bromomethane	<94.5	ug/kg	338	94.5	1	11/16/18 07:30	11/16/18 22:22	74-83-9	W
n-Butylbenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	104-51-8	W
sec-Butylbenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	135-98-8	W
tert-Butylbenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	98-06-6	W
Carbon tetrachloride	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	56-23-5	W
Chlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	108-90-7	W
Chloroethane	<90.6	ug/kg	338	90.6	1	11/16/18 07:30	11/16/18 22:22	75-00-3	W
Chloroform	<62.8	ug/kg	338	62.8	1	11/16/18 07:30	11/16/18 22:22	67-66-3	W
Chloromethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	74-87-3	W
2-Chlorotoluene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	95-49-8	W
4-Chlorotoluene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	106-43-4	W
1,2-Dibromo-3-chloropropane	<123	ug/kg	338	123	1	11/16/18 07:30	11/16/18 22:22	96-12-8	W
Dibromochloromethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	124-48-1	W
1,2-Dibromoethane (EDB)	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	106-93-4	W
Dibromomethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	74-95-3	W
1,2-Dichlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	95-50-1	W
1,3-Dichlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	541-73-1	W
1,4-Dichlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	106-46-7	W
Dichlorodifluoromethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	75-71-8	W
1,1-Dichloroethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	75-34-3	W
1,2-Dichloroethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	107-06-2	W
1,1-Dichloroethene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	75-35-4	W
cis-1,2-Dichloroethene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	156-59-2	W
trans-1,2-Dichloroethene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	156-60-5	W
1,2-Dichloropropane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	78-87-5	W
1,3-Dichloropropane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	142-28-9	W
2,2-Dichloropropane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	594-20-7	W
1,1-Dichloropropene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	563-58-6	W
cis-1,3-Dichloropropene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	10061-01-5	W
trans-1,3-Dichloropropene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	10061-02-6	W
Diisopropyl ether	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	108-20-3	W
Ethylbenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	100-41-4	W
Hexachloro-1,3-butadiene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	87-68-3	W
Isopropylbenzene (Cumene)	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	98-82-8	W
p-Isopropyltoluene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	99-87-6	W
Methylene Chloride	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	75-09-2	W
Methyl-tert-butyl ether	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	1634-04-4	W
Naphthalene	<54.1	ug/kg	338	54.1	1	11/16/18 07:30	11/16/18 22:22	91-20-3	W
n-Propylbenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	103-65-1	W
Styrene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	100-42-5	W

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 200 DELAFIELD

Pace Project No.: 40179384

**Sample: TP-2 NW BASE 12' Lab ID: 40179386012** Collected: 11/07/18 11:45 Received: 11/09/18 14:00 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	630-20-6	W
1,1,2,2-Tetrachloroethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	79-34-5	W
Tetrachloroethene	172	ug/kg	95.5	39.8	1	11/16/18 07:30	11/16/18 22:22	127-18-4	
Toluene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	108-88-3	W
1,2,3-Trichlorobenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	87-61-6	W
1,2,4-Trichlorobenzene	<64.3	ug/kg	338	64.3	1	11/16/18 07:30	11/16/18 22:22	120-82-1	W
1,1,1-Trichloroethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	71-55-6	W
1,1,2-Trichloroethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	79-00-5	W
Trichloroethene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	79-01-6	W
Trichlorofluoromethane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	75-69-4	W
1,2,3-Trichloropropane	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	96-18-4	W
1,2,4-Trimethylbenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	95-63-6	W
1,3,5-Trimethylbenzene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	108-67-8	W
Vinyl chloride	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	75-01-4	W
m&p-Xylene	<67.6	ug/kg	162	67.6	1	11/16/18 07:30	11/16/18 22:22	179601-23-1	W
o-Xylene	<33.8	ug/kg	81.1	33.8	1	11/16/18 07:30	11/16/18 22:22	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	119	%	57-148		1	11/16/18 07:30	11/16/18 22:22	1868-53-7	
Toluene-d8 (S)	121	%	58-142		1	11/16/18 07:30	11/16/18 22:22	2037-26-5	
4-Bromofluorobenzene (S)	115	%	48-130		1	11/16/18 07:30	11/16/18 22:22	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	15.1	%	0.10	0.10	1		11/20/18 10:28		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD  
 Pace Project No.: 40179384

QC Batch: 306757 Analysis Method: EPA 8260  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List  
 Associated Lab Samples: 40179384001, 40179384002, 40179384003, 40179384004, 40179384005, 40179384006, 40179384007,  
 40179384008, 40179384009, 40179386002, 40179386003, 40179386004, 40179386005, 40179386006,  
 40179386007

METHOD BLANK: 1793913 Matrix: Solid  
 Associated Lab Samples: 40179384001, 40179384002, 40179384003, 40179384004, 40179384005, 40179384006, 40179384007,  
 40179384008, 40179384009, 40179386002, 40179386003, 40179386004, 40179386005, 40179386006,  
 40179386007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	11/15/18 17:39	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	11/15/18 17:39	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	11/15/18 17:39	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	11/15/18 17:39	
1,1-Dichloroethane	ug/kg	<17.6	50.0	11/15/18 17:39	
1,1-Dichloroethene	ug/kg	<17.6	50.0	11/15/18 17:39	
1,1-Dichloropropene	ug/kg	<14.0	50.0	11/15/18 17:39	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	11/15/18 17:39	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	11/15/18 17:39	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	11/15/18 17:39	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	11/15/18 17:39	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	11/15/18 17:39	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	11/15/18 17:39	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	11/15/18 17:39	
1,2-Dichloroethane	ug/kg	<15.0	50.0	11/15/18 17:39	
1,2-Dichloropropane	ug/kg	<16.8	50.0	11/15/18 17:39	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	11/15/18 17:39	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	11/15/18 17:39	
1,3-Dichloropropane	ug/kg	<12.0	50.0	11/15/18 17:39	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	11/15/18 17:39	
2,2-Dichloropropane	ug/kg	<12.6	50.0	11/15/18 17:39	
2-Chlorotoluene	ug/kg	<15.8	50.0	11/15/18 17:39	
4-Chlorotoluene	ug/kg	<13.0	50.0	11/15/18 17:39	
Benzene	ug/kg	<9.2	20.0	11/15/18 17:39	
Bromobenzene	ug/kg	<20.6	50.0	11/15/18 17:39	
Bromochloromethane	ug/kg	<21.4	50.0	11/15/18 17:39	
Bromodichloromethane	ug/kg	<9.8	50.0	11/15/18 17:39	
Bromoform	ug/kg	<19.8	50.0	11/15/18 17:39	
Bromomethane	ug/kg	<69.9	250	11/15/18 17:39	
Carbon tetrachloride	ug/kg	<12.1	50.0	11/15/18 17:39	
Chlorobenzene	ug/kg	<14.8	50.0	11/15/18 17:39	
Chloroethane	ug/kg	<67.0	250	11/15/18 17:39	
Chloroform	ug/kg	<46.4	250	11/15/18 17:39	
Chloromethane	ug/kg	<20.4	50.0	11/15/18 17:39	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	11/15/18 17:39	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	11/15/18 17:39	
Dibromochloromethane	ug/kg	<17.9	50.0	11/15/18 17:39	
Dibromomethane	ug/kg	<19.3	50.0	11/15/18 17:39	

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

METHOD BLANK: 1793913

Matrix: Solid

Associated Lab Samples: 40179384001, 40179384002, 40179384003, 40179384004, 40179384005, 40179384006, 40179384007, 40179384008, 40179384009, 40179386002, 40179386003, 40179386004, 40179386005, 40179386006, 40179386007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/kg	<12.3	50.0	11/15/18 17:39	
Diisopropyl ether	ug/kg	<17.7	50.0	11/15/18 17:39	
Ethylbenzene	ug/kg	<12.4	50.0	11/15/18 17:39	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	11/15/18 17:39	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	11/15/18 17:39	
m&p-Xylene	ug/kg	<34.4	100	11/15/18 17:39	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	11/15/18 17:39	
Methylene Chloride	ug/kg	<16.2	50.0	11/15/18 17:39	
n-Butylbenzene	ug/kg	<10.5	50.0	11/15/18 17:39	
n-Propylbenzene	ug/kg	<11.6	50.0	11/15/18 17:39	
Naphthalene	ug/kg	<40.0	250	11/15/18 17:39	
o-Xylene	ug/kg	<14.0	50.0	11/15/18 17:39	
p-Isopropyltoluene	ug/kg	<12.0	50.0	11/15/18 17:39	
sec-Butylbenzene	ug/kg	<11.9	50.0	11/15/18 17:39	
Styrene	ug/kg	<9.0	50.0	11/15/18 17:39	
tert-Butylbenzene	ug/kg	<9.5	50.0	11/15/18 17:39	
Tetrachloroethene	ug/kg	<12.9	50.0	11/15/18 17:39	
Toluene	ug/kg	<11.2	50.0	11/15/18 17:39	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	11/15/18 17:39	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	11/15/18 17:39	
Trichloroethene	ug/kg	<23.6	50.0	11/15/18 17:39	
Trichlorofluoromethane	ug/kg	<24.7	50.0	11/15/18 17:39	
Vinyl chloride	ug/kg	<21.1	50.0	11/15/18 17:39	
4-Bromofluorobenzene (S)	%	85	48-130	11/15/18 17:39	
Dibromofluoromethane (S)	%	93	57-148	11/15/18 17:39	
Toluene-d8 (S)	%	95	58-142	11/15/18 17:39	

LABORATORY CONTROL SAMPLE: 1793914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2450	98	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2470	99	68-130	
1,1,2-Trichloroethane	ug/kg	2500	2390	95	70-130	
1,1-Dichloroethane	ug/kg	2500	2540	102	67-132	
1,1-Dichloroethene	ug/kg	2500	2430	97	67-128	
1,2,4-Trichlorobenzene	ug/kg	2500	2100	84	51-131	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2150	86	49-117	
1,2-Dibromoethane (EDB)	ug/kg	2500	2300	92	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2260	90	70-130	
1,2-Dichloroethane	ug/kg	2500	2670	107	65-137	
1,2-Dichloropropane	ug/kg	2500	2360	94	75-126	
1,3-Dichlorobenzene	ug/kg	2500	2310	92	70-130	

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

LABORATORY CONTROL SAMPLE: 1793914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/kg	2500	2300	92	70-130	
Benzene	ug/kg	2500	2630	105	70-130	
Bromodichloromethane	ug/kg	2500	2560	102	70-130	
Bromoform	ug/kg	2500	1780	71	57-117	
Bromomethane	ug/kg	2500	2350	94	48-135	
Carbon tetrachloride	ug/kg	2500	2360	95	65-133	
Chlorobenzene	ug/kg	2500	2290	92	70-130	
Chloroethane	ug/kg	2500	2250	90	37-165	
Chloroform	ug/kg	2500	2630	105	72-126	
Chloromethane	ug/kg	2500	1580	63	34-120	
cis-1,2-Dichloroethene	ug/kg	2500	2230	89	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2350	94	69-130	
Dibromochloromethane	ug/kg	2500	2220	89	68-130	
Dichlorodifluoromethane	ug/kg	2500	1750	70	22-100	
Ethylbenzene	ug/kg	2500	2310	93	79-121	
Isopropylbenzene (Cumene)	ug/kg	2500	2220	89	70-130	
m&p-Xylene	ug/kg	5000	4670	93	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2480	99	66-129	
Methylene Chloride	ug/kg	2500	2280	91	68-129	
o-Xylene	ug/kg	2500	2250	90	70-130	
Styrene	ug/kg	2500	2420	97	70-130	
Tetrachloroethene	ug/kg	2500	2240	89	70-130	
Toluene	ug/kg	2500	2380	95	80-123	
trans-1,2-Dichloroethene	ug/kg	2500	2340	94	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2190	87	67-130	
Trichloroethene	ug/kg	2500	2780	111	70-130	
Trichlorofluoromethane	ug/kg	2500	2640	106	64-134	
Vinyl chloride	ug/kg	2500	2150	86	52-122	
4-Bromofluorobenzene (S)	%			98	48-130	
Dibromofluoromethane (S)	%			93	57-148	
Toluene-d8 (S)	%			95	58-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1793915 1793916

Parameter	Units	40179453001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/kg	<25.0	1480	1480	1510	1520	102	103	62-130	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1480	1480	1670	1650	113	111	64-137	2	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1480	1480	1590	1560	107	105	70-130	2	20	
1,1-Dichloroethane	ug/kg	<25.0	1480	1480	1500	1520	101	103	65-132	1	20	
1,1-Dichloroethene	ug/kg	<25.0	1480	1480	1290	1310	87	88	50-128	1	21	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1480	1480	1440	1440	97	97	51-148	0	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1480	1480	1300	1680	88	113	43-134	25	23	R1
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1480	1480	1540	1360	104	92	70-130	13	20	

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

Parameter	Units	1793915		1793916		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		40179453001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,2-Dichlorobenzene	ug/kg	<25.0	1480	1480	1530	1540	103	104	70-130	1	20	
1,2-Dichloroethane	ug/kg	<25.0	1480	1480	1800	1790	122	121	65-139	0	20	
1,2-Dichloropropane	ug/kg	<25.0	1480	1480	1470	1460	99	98	74-128	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1480	1480	1530	1590	103	108	70-130	4	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1480	1480	1600	1600	108	108	70-130	0	20	
Benzene	ug/kg	<25.0	1480	1480	1610	1590	109	107	66-132	1	20	
Bromodichloromethane	ug/kg	<25.0	1480	1480	1540	1580	104	107	69-130	3	20	
Bromoform	ug/kg	<25.0	1480	1480	1210	1060	82	71	57-130	13	20	
Bromomethane	ug/kg	<69.9	1480	1480	1500	1370	102	93	34-145	9	20	
Carbon tetrachloride	ug/kg	<25.0	1480	1480	1330	1260	90	85	54-133	5	20	
Chlorobenzene	ug/kg	<25.0	1480	1480	1550	1440	105	97	70-130	8	20	
Chloroethane	ug/kg	<67.0	1480	1480	1310	1250	88	85	33-165	4	20	
Chloroform	ug/kg	<46.4	1480	1480	1710	1630	115	110	72-128	5	20	
Chloromethane	ug/kg	<25.0	1480	1480	939	904	63	61	20-120	4	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1480	1480	1360	1480	92	100	69-130	8	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1480	1480	1390	1390	94	94	65-130	0	20	
Dibromochloromethane	ug/kg	<25.0	1480	1480	1340	1330	90	90	65-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1480	1480	994	947	67	64	10-109	5	29	
Ethylbenzene	ug/kg	<25.0	1480	1480	1520	1350	102	91	63-127	12	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1480	1480	1440	1280	97	87	66-130	12	20	
m&p-Xylene	ug/kg	<50.0	2960	2960	3060	2790	103	94	70-130	9	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1480	1480	1610	1640	109	111	62-135	2	20	
Methylene Chloride	ug/kg	<25.0	1480	1480	1440	1370	97	92	68-129	5	20	
o-Xylene	ug/kg	<25.0	1480	1480	1430	1350	97	91	69-130	6	20	
Styrene	ug/kg	<25.0	1480	1480	1500	1420	101	96	70-130	5	20	
Tetrachloroethene	ug/kg	<25.0	1480	1480	1470	1280	99	87	70-130	14	20	
Toluene	ug/kg	<25.0	1480	1480	1590	1400	108	95	80-123	13	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1480	1480	1480	1430	100	96	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1480	1480	1370	1390	93	94	67-130	1	20	
Trichloroethene	ug/kg	<25.0	1480	1480	1590	1550	107	105	70-130	2	20	
Trichlorofluoromethane	ug/kg	<25.0	1480	1480	1530	1390	103	94	41-134	10	26	
Vinyl chloride	ug/kg	<25.0	1480	1480	1120	1050	76	71	39-122	7	20	
4-Bromofluorobenzene (S)	%						99	92	48-130			
Dibromofluoromethane (S)	%						97	98	57-148			
Toluene-d8 (S)	%						100	89	58-142			

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD  
Pace Project No.: 40179384

QC Batch: 306877 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List  
Associated Lab Samples: 40179386001, 40179386008, 40179386009, 40179386010, 40179386011, 40179386012

METHOD BLANK: 1794609 Matrix: Solid  
Associated Lab Samples: 40179386001, 40179386008, 40179386009, 40179386010, 40179386011, 40179386012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	11/16/18 16:11	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	11/16/18 16:11	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	11/16/18 16:11	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	11/16/18 16:11	
1,1-Dichloroethane	ug/kg	<17.6	50.0	11/16/18 16:11	
1,1-Dichloroethene	ug/kg	<17.6	50.0	11/16/18 16:11	
1,1-Dichloropropene	ug/kg	<14.0	50.0	11/16/18 16:11	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	11/16/18 16:11	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	11/16/18 16:11	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	11/16/18 16:11	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	11/16/18 16:11	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	11/16/18 16:11	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	11/16/18 16:11	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	11/16/18 16:11	
1,2-Dichloroethane	ug/kg	<15.0	50.0	11/16/18 16:11	
1,2-Dichloropropane	ug/kg	<16.8	50.0	11/16/18 16:11	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	11/16/18 16:11	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	11/16/18 16:11	
1,3-Dichloropropane	ug/kg	<12.0	50.0	11/16/18 16:11	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	11/16/18 16:11	
2,2-Dichloropropane	ug/kg	<12.6	50.0	11/16/18 16:11	
2-Chlorotoluene	ug/kg	<15.8	50.0	11/16/18 16:11	
4-Chlorotoluene	ug/kg	<13.0	50.0	11/16/18 16:11	
Benzene	ug/kg	<9.2	20.0	11/16/18 16:11	
Bromobenzene	ug/kg	<20.6	50.0	11/16/18 16:11	
Bromochloromethane	ug/kg	<21.4	50.0	11/16/18 16:11	
Bromodichloromethane	ug/kg	13.4J	50.0	11/16/18 16:11	
Bromoform	ug/kg	<19.8	50.0	11/16/18 16:11	
Bromomethane	ug/kg	<69.9	250	11/16/18 16:11	
Carbon tetrachloride	ug/kg	<12.1	50.0	11/16/18 16:11	
Chlorobenzene	ug/kg	<14.8	50.0	11/16/18 16:11	
Chloroethane	ug/kg	<67.0	250	11/16/18 16:11	
Chloroform	ug/kg	<46.4	250	11/16/18 16:11	
Chloromethane	ug/kg	<20.4	50.0	11/16/18 16:11	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	11/16/18 16:11	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	11/16/18 16:11	
Dibromochloromethane	ug/kg	<17.9	50.0	11/16/18 16:11	
Dibromomethane	ug/kg	<19.3	50.0	11/16/18 16:11	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	11/16/18 16:11	
Diisopropyl ether	ug/kg	<17.7	50.0	11/16/18 16:11	
Ethylbenzene	ug/kg	<12.4	50.0	11/16/18 16:11	

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

METHOD BLANK: 1794609

Matrix: Solid

Associated Lab Samples: 40179386001, 40179386008, 40179386009, 40179386010, 40179386011, 40179386012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	11/16/18 16:11	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	11/16/18 16:11	
m&p-Xylene	ug/kg	<34.4	100	11/16/18 16:11	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	11/16/18 16:11	
Methylene Chloride	ug/kg	<16.2	50.0	11/16/18 16:11	
n-Butylbenzene	ug/kg	<10.5	50.0	11/16/18 16:11	
n-Propylbenzene	ug/kg	<11.6	50.0	11/16/18 16:11	
Naphthalene	ug/kg	<40.0	250	11/16/18 16:11	
o-Xylene	ug/kg	<14.0	50.0	11/16/18 16:11	
p-Isopropyltoluene	ug/kg	<12.0	50.0	11/16/18 16:11	
sec-Butylbenzene	ug/kg	<11.9	50.0	11/16/18 16:11	
Styrene	ug/kg	<9.0	50.0	11/16/18 16:11	
tert-Butylbenzene	ug/kg	<9.5	50.0	11/16/18 16:11	
Tetrachloroethene	ug/kg	<12.9	50.0	11/16/18 16:11	
Toluene	ug/kg	<11.2	50.0	11/16/18 16:11	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	11/16/18 16:11	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	11/16/18 16:11	
Trichloroethene	ug/kg	<23.6	50.0	11/16/18 16:11	
Trichlorofluoromethane	ug/kg	<24.7	50.0	11/16/18 16:11	
Vinyl chloride	ug/kg	<21.1	50.0	11/16/18 16:11	
4-Bromofluorobenzene (S)	%	92	48-130	11/16/18 16:11	
Dibromofluoromethane (S)	%	94	57-148	11/16/18 16:11	
Toluene-d8 (S)	%	98	58-142	11/16/18 16:11	

LABORATORY CONTROL SAMPLE: 1794610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2500	100	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2110	84	68-130	
1,1,2-Trichloroethane	ug/kg	2500	2440	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2540	102	67-132	
1,1-Dichloroethene	ug/kg	2500	2270	91	67-128	
1,2,4-Trichlorobenzene	ug/kg	2500	1880	75	51-131	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1820	73	49-117	
1,2-Dibromoethane (EDB)	ug/kg	2500	2180	87	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2050	82	70-130	
1,2-Dichloroethane	ug/kg	2500	2580	103	65-137	
1,2-Dichloropropane	ug/kg	2500	2180	87	75-126	
1,3-Dichlorobenzene	ug/kg	2500	2200	88	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2130	85	70-130	
Benzene	ug/kg	2500	2600	104	70-130	
Bromodichloromethane	ug/kg	2500	2460	98	70-130	
Bromoform	ug/kg	2500	1680	67	57-117	
Bromomethane	ug/kg	2500	2560	102	48-135	

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

LABORATORY CONTROL SAMPLE: 1794610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2380	95	65-133	
Chlorobenzene	ug/kg	2500	2320	93	70-130	
Chloroethane	ug/kg	2500	2230	89	37-165	
Chloroform	ug/kg	2500	2610	104	72-126	
Chloromethane	ug/kg	2500	1560	62	34-120	
cis-1,2-Dichloroethene	ug/kg	2500	2220	89	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2130	85	69-130	
Dibromochloromethane	ug/kg	2500	2190	88	68-130	
Dichlorodifluoromethane	ug/kg	2500	1770	71	22-100	
Ethylbenzene	ug/kg	2500	2390	96	79-121	
Isopropylbenzene (Cumene)	ug/kg	2500	2300	92	70-130	
m&p-Xylene	ug/kg	5000	4690	94	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2360	94	66-129	
Methylene Chloride	ug/kg	2500	2200	88	68-129	
o-Xylene	ug/kg	2500	2150	86	70-130	
Styrene	ug/kg	2500	2430	97	70-130	
Tetrachloroethene	ug/kg	2500	2310	92	70-130	
Toluene	ug/kg	2500	2400	96	80-123	
trans-1,2-Dichloroethene	ug/kg	2500	2360	94	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2250	90	67-130	
Trichloroethene	ug/kg	2500	2640	106	70-130	
Trichlorofluoromethane	ug/kg	2500	2660	106	64-134	
Vinyl chloride	ug/kg	2500	2110	84	52-122	
4-Bromofluorobenzene (S)	%			102	48-130	
Dibromofluoromethane (S)	%			99	57-148	
Toluene-d8 (S)	%			98	58-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1794611 1794612

Parameter	Units	40179689004		MSD		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/kg	<25.0	1510	1510	1460	1450	96	96	62-130	1	20		
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1510	1510	1530	1650	102	109	64-137	7	20		
1,1,2-Trichloroethane	ug/kg	<25.0	1510	1510	1560	1530	103	101	70-130	2	20		
1,1-Dichloroethane	ug/kg	<25.0	1510	1510	1570	1420	104	94	65-132	10	20		
1,1-Dichloroethene	ug/kg	<25.0	1510	1510	1210	1230	80	81	50-128	2	21		
1,2,4-Trichlorobenzene	ug/kg	<47.6	1510	1510	1320	1390	87	92	51-148	5	20		
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1510	1510	1410	1490	94	98	43-134	5	23		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1510	1510	1290	1390	85	92	70-130	7	20		
1,2-Dichlorobenzene	ug/kg	<25.0	1510	1510	1570	1530	104	101	70-130	2	20		
1,2-Dichloroethane	ug/kg	<25.0	1510	1510	1590	1610	105	106	65-139	1	20		
1,2-Dichloropropane	ug/kg	<25.0	1510	1510	1450	1480	96	98	74-128	2	20		
1,3-Dichlorobenzene	ug/kg	<25.0	1510	1510	1500	1530	99	101	70-130	2	20		
1,4-Dichlorobenzene	ug/kg	<25.0	1510	1510	1590	1540	105	102	70-130	3	20		

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

Parameter	Units	40179689004		1794611		1794612		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	ug/kg	<25.0	1510	1510	1580	1580	105	105	66-132	0	20		
Bromodichloromethane	ug/kg	<25.0	1510	1510	1600	1520	106	100	69-130	5	20		
Bromoform	ug/kg	<25.0	1510	1510	1100	1170	73	77	57-130	7	20		
Bromomethane	ug/kg	<69.9	1510	1510	1410	1280	94	84	34-145	10	20		
Carbon tetrachloride	ug/kg	<25.0	1510	1510	1430	1340	94	89	54-133	6	20		
Chlorobenzene	ug/kg	<25.0	1510	1510	1530	1520	101	101	70-130	0	20		
Chloroethane	ug/kg	<67.0	1510	1510	1200	1200	80	80	33-165	0	20		
Chloroform	ug/kg	<46.4	1510	1510	1640	1680	108	111	72-128	2	20		
Chloromethane	ug/kg	<25.0	1510	1510	871	838	58	55	20-120	4	20		
cis-1,2-Dichloroethene	ug/kg	<25.0	1510	1510	1360	1360	90	90	69-130	0	20		
cis-1,3-Dichloropropene	ug/kg	<25.0	1510	1510	1350	1420	89	94	65-130	5	20		
Dibromochloromethane	ug/kg	<25.0	1510	1510	1470	1400	97	93	65-130	4	20		
Dichlorodifluoromethane	ug/kg	<25.0	1510	1510	906	936	60	62	10-109	3	29		
Ethylbenzene	ug/kg	<25.0	1510	1510	1530	1460	101	96	63-127	5	20		
Isopropylbenzene (Cumene)	ug/kg	<25.0	1510	1510	1430	1320	94	87	66-130	8	20		
m&p-Xylene	ug/kg	<50.0	3020	3020	2960	2990	98	99	70-130	1	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1510	1510	1590	1530	105	101	62-135	4	20		
Methylene Chloride	ug/kg	<25.0	1510	1510	1370	1480	90	98	68-129	8	20		
o-Xylene	ug/kg	<25.0	1510	1510	1430	1260	95	83	69-130	13	20		
Styrene	ug/kg	<25.0	1510	1510	1600	1490	106	99	70-130	7	20		
Tetrachloroethene	ug/kg	<25.0	1510	1510	1480	1480	98	98	70-130	0	20		
Toluene	ug/kg	<25.0	1510	1510	1600	1490	106	99	80-123	7	20		
trans-1,2-Dichloroethene	ug/kg	<25.0	1510	1510	1420	1340	94	89	70-130	6	20		
trans-1,3-Dichloropropene	ug/kg	<25.0	1510	1510	1350	1320	89	87	67-130	2	20		
Trichloroethene	ug/kg	<25.0	1510	1510	1580	1650	104	109	70-130	5	20		
Trichlorofluoromethane	ug/kg	<25.0	1510	1510	1430	1400	94	93	41-134	2	26		
Vinyl chloride	ug/kg	<25.0	1510	1510	1090	1070	72	71	39-122	2	20		
4-Bromofluorobenzene (S)	%						103	97	48-130				
Dibromofluoromethane (S)	%						98	94	57-148				
Toluene-d8 (S)	%						101	93	58-142				

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

QC Batch: 306698

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40179384001, 40179384002, 40179384003, 40179384004, 40179384005, 40179384006, 40179384007

SAMPLE DUPLICATE: 1793526

Parameter	Units	40179602003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.8	5.8	1	10	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

QC Batch: 306704

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40179384008, 40179386001, 40179386002, 40179386003

SAMPLE DUPLICATE: 1793600

Parameter	Units	40179602002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.9	4.0	2	10	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 200 DELAFIELD

Pace Project No.: 40179384

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QC Batch:	307160	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40179386004, 40179386005, 40179386006, 40179386007, 40179386008, 40179386009, 40179386010, 40179386011, 40179386012		

---

SAMPLE DUPLICATE: 1796140

Parameter	Units	40179274005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.0	19.1	0	10	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 200 DELAFIELD

Pace Project No.: 40179384

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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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

1q Surrogate recovery outside laboratory control limits. Confirmed by running sample with similar matrix (40179386004).

R1 RPD value was outside control limits.

S1 Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

W Non-detect results are reported on a wet weight basis.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 200 DELAFIELD

Pace Project No.: 40179384

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40179384001	TP-3 W 2-4'	EPA 5035/5030B	306757	EPA 8260	306759
40179384002	TP-3 S 1-3'	EPA 5035/5030B	306757	EPA 8260	306759
40179384003	TP-3 E 1-3'	EPA 5035/5030B	306757	EPA 8260	306759
40179384004	TP-3 N 4-6'	EPA 5035/5030B	306757	EPA 8260	306759
40179384005	TP-3 E 4-6'	EPA 5035/5030B	306757	EPA 8260	306759
40179384006	TP-3 W 6-8'	EPA 5035/5030B	306757	EPA 8260	306759
40179384007	TP-3 S 6-8'	EPA 5035/5030B	306757	EPA 8260	306759
40179384008	TP-3 E 6-8'	EPA 5035/5030B	306757	EPA 8260	306759
40179384009	TRIP BLANK	EPA 5035/5030B	306757	EPA 8260	306759
40179386001	TP-1 8'	EPA 5035/5030B	306877	EPA 8260	306881
40179386002	TP-2 E 2-4'	EPA 5035/5030B	306757	EPA 8260	306759
40179386003	TP-2 W 2-4'	EPA 5035/5030B	306757	EPA 8260	306759
40179386004	TP-2 N 2-4'	EPA 5035/5030B	306757	EPA 8260	306759
40179386005	TP-2 S 2-4'	EPA 5035/5030B	306757	EPA 8260	306759
40179386006	TP-2 E 8-10'	EPA 5035/5030B	306757	EPA 8260	306759
40179386007	TP-2 W 8-10'	EPA 5035/5030B	306757	EPA 8260	306759
40179386008	TP-2 N 8-10'	EPA 5035/5030B	306877	EPA 8260	306881
40179386009	TP-2 S 8-10'	EPA 5035/5030B	306877	EPA 8260	306881
40179386010	TP-2 NE 10-12'	EPA 5035/5030B	306877	EPA 8260	306881
40179386011	TP-2 NE BASE 12'	EPA 5035/5030B	306877	EPA 8260	306881
40179386012	TP-2 NW BASE 12'	EPA 5035/5030B	306877	EPA 8260	306881
40179384001	TP-3 W 2-4'	ASTM D2974-87	306698		
40179384002	TP-3 S 1-3'	ASTM D2974-87	306698		
40179384003	TP-3 E 1-3'	ASTM D2974-87	306698		
40179384004	TP-3 N 4-6'	ASTM D2974-87	306698		
40179384005	TP-3 E 4-6'	ASTM D2974-87	306698		
40179384006	TP-3 W 6-8'	ASTM D2974-87	306698		
40179384007	TP-3 S 6-8'	ASTM D2974-87	306698		
40179384008	TP-3 E 6-8'	ASTM D2974-87	306704		
40179386001	TP-1 8'	ASTM D2974-87	306704		
40179386002	TP-2 E 2-4'	ASTM D2974-87	306704		
40179386003	TP-2 W 2-4'	ASTM D2974-87	306704		
40179386004	TP-2 N 2-4'	ASTM D2974-87	307160		
40179386005	TP-2 S 2-4'	ASTM D2974-87	307160		
40179386006	TP-2 E 8-10'	ASTM D2974-87	307160		
40179386007	TP-2 W 8-10'	ASTM D2974-87	307160		
40179386008	TP-2 N 8-10'	ASTM D2974-87	307160		
40179386009	TP-2 S 8-10'	ASTM D2974-87	307160		
40179386010	TP-2 NE 10-12'	ASTM D2974-87	307160		
40179386011	TP-2 NE BASE 12'	ASTM D2974-87	307160		
40179386012	TP-2 NW BASE 12'	ASTM D2974-87	307160		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **LF Green**  
 Branch/Location:  
 Project Contact: **Linda Fellenz**  
 Phone:  
 Project Number:  
 Project Name: **2000 Delafield**  
 Project State: **WI**  
 Sampled By (Print): **Katherine M. Juno**  
 Sampled By (Sign): *Katherine M. Juno*  
 PO #:  
 Regulatory Program:



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

40179386 *sum 11/20/18*

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

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

Analyses Requested	Y/N	Pick Letter
	VOC	N

Quote #:  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	TP-1 8'	11/7/18	8:20	S
002	TP-2 E 2-4'		9:00	
003	TP-2 W 2-4'		9:15	
004	TP-2 N 2-4'		9:30	
005	TP-2 S 2-4'		10:00	
006	TP-2 E 8-10'		10:15	
007	TP-2 W 8-10'		10:30	
008	TP-2 N 8-10'		10:45	
009	TP-2 S 8-10'		11:00	
010	TP-2 NE 10-12'		11:15	
011	TP-2 NE Base 12'		11:30	
012	TP-2 NW Base 12'		11:45	

CLIENT COMMENTS  
 LAB COMMENTS (Lab Use Only)  
 Profile #


Rush Turnaround Time Requested - Prelims  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (complete what you want):  
 Email #1:  
 Email #2:  
 Telephone:  
 Fax:  
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>Katherine M. Juno</i>	Date/Time: 11/8/18 1:30	Received By: <i>[Signature]</i>	Date/Time: 11/8/18 1:30
Relinquished By: <i>[Signature]</i>	Date/Time: 11/9/18 8:00	Received By: <i>[Signature]</i>	Date/Time: 11/11/18 12:15
Relinquished By: <i>[Signature]</i>	Date/Time: 11/11/18 14:00	Received By: <i>[Signature]</i>	Date/Time: 11/11/18 14:00
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40179386  
 Receipt Temp = 5 °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact





 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 25Apr2018
	Document No.: <b>F-GB-C-031-Rev.07</b>	Issuing Authority: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Project #:

40179386

AFFIX WORKORDER LABEL HERE

Client Name: LF Green

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waitco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: \_\_\_\_\_

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

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used SR-69 Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5 / Corr: 5

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents: Date: <u>11/12/18</u> Initials: <u>[Signature]</u>
---

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>mail to improve to page 4</u> <u>OKS W/MS</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>B728501VB</u>		

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

Project Manager Review: [Signature] Date: 11/12/18



1241 Bellevue Street, Green Bay, WI 54302

Document Name:  
Sample Condition Upon Receipt (SCUR)

Document No.:  
F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:  
Pace Green Bay Quality Office

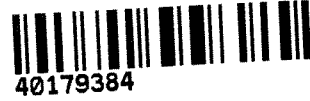
### Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: LF Green

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_

WO#: **40179384**



Tracking #: \_\_\_\_\_

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

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - 69 Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5 / Corr: 5

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Person examining contents:

Date: 11/12/18  
Initials: AS

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>email to invoice to page 4</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>B716003</u>		

#### Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: 11/12/18