August Mack
ENVIRONMENTAL

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May 28, 2019

Mr. Brian Crist
Ice Miller, LLP
One American Square, Suite 2900
Indianapolis, Indiana 46282

Re: Phase II Subsurface Investigation
Indiana University Health Bloomington Hospital Campus
601 West 2nd Street
Bloomington, Indiana
August Mack Project Number JS1901.740

Dear Mr. Crist:

August Mack Environmental, Inc. (August Mack) has completed subsurface investigation activities at the above-referenced Site. The Site encompasses approximately 24.12-acres, developed with the Indiana University Health Bloomington Hospital Campus, which is comprised of a main hospital building, several auxiliary buildings, and parking areas. For the purposes of this assessment and consistency between a recent Phase I Environmental Site Assessment (ESA) performed by August Mack (Project Number JS1349.710), the Site has been divided into four (4) separate parcels with Parcel A making up the northwest portion of the Site, Parcel B making up the northeast portion, Parcel C making up the southeast portion, and Parcel D making up the southwest portion.

The following recognized environmental conditions (RECs) were identified during the recent Phase I ESA by August Mack:

- Significant data gap regarding the lack of closure documentation for the 500-gallon diesel underground storage tank (UST) reported on the western portion of Parcel C.
- Significant data gap regarding the lack of closure documentation for the 6,000-gallon diesel UST located north of the Services Building on Parcel B.
- The long-term use of the northeast corner of Parcel A as a filling station from at least 1947 to 1977, and the unknown disposition of any associated historical USTs.
- The long-term use of the eastern portion of Parcel B and abutting property as bulk oil facilities and an auto repair shop between 1927 and 1976.

- The long-term use of the central portion of Parcel B for automotive repair, painting, and other maintenance-related work, combined with the lack of documentation associated with the dry well soil excavation.
- The long-term use of the abutting/hydraulically up-gradient property between Parcels A and B at the W. 2nd Street/S. Rogers Street intersection as a bulk oil facility and filling station from at least 1927 to 1976.

The purpose of this investigation was to determine if subsurface conditions at the Site have been impacted by the above listed RECs. This report includes a description of the scope of work, a summary of field activities, sampling procedures, laboratory analytical results, and conclusions.

This report was prepared at the request of Mr. Brian Crist with Ice Miller, LLP and may be relied on by the City of Bloomington. Reliance on the information and conclusions presented in this report by any other party(ies) is not authorized by August Mack.

SUBSURFACE INVESTIGATION

Investigation Locations

August Mack mobilized to the Site on September 24-27, 2018, to perform the subsurface investigation activities (soil borings SB-1 through SB-24). August Mack returned to the Site to complete additional soil borings (SB-25 through SB-30) on November 15, 2018. Prior to starting soil boring activities, ground penetrating radar (GPR), electromagnetic (EM) locating, and other utility locating tools were utilized to clear all boring locations. Underground locating equipment was also used to identify the dry well excavation area on Parcel B and the location of multiple current and former on-Site USTs.

All of the borings were advanced using a Geoprobe® direct push sampling system. Borings SB-1 through SB-24 were advanced across the Site to evaluate the RECs identified in the Phase I ESA, while SB-25 through SB-30 were advanced to further evaluate impacts discovered at SB-20. Information regarding soil boring locations is provided below and boring locations are depicted on **Figure 1**.

Soil Boring ID	Location	Purpose
SB-1	Parcel A	Investigate the long-term use of the northeast corner of Parcel A as a filling station from at least 1947 to 1977 and the unknown disposition of any associated historical USTs
SB-2		
SB-3		
SB-4		
SB-5	Parcel B	Investigate the long-term use of the abutting and hydraulically up-gradient property at the southeast corner of W. 2nd Street and S. Rogers Street as a former bulk oil facility and filling station from at least 1927 to 1976
SB-6		
SB-7		
SB-8		
SB-9	Parcel B	Investigate the long-term use of the central portion of Parcel B for automotive repair, painting, and other maintenance-related work, combined with the lack of documentation associated with the dry well soil excavation (SB-10)
SB-10		
SB-11		
SB-12		
SB-13		
SB-14		
SB-15	Parcel B	Investigate the significant data gap regarding the lack of closure documentation for the 6,000-gallon diesel UST located north of the Services Building
SB-16		
SB-17		
SB-18	Parcel B	Investigate the long-term use of the eastern portion of Parcel B and abutting property as bulk oil facilities and an auto repair shop between 1927 and 1976
SB-19		
SB-20		

Soil Boring ID	Location	Purpose
SB-21		
SB-22		
SB-23	Parcel C	Investigate the significant data gap regarding the lack of closure documentation for the 500-gallon diesel UST reported on the western portion of Parcel C
SB-24		
SB-25	Parcel B	Further evaluate and delineate the petroleum impacts identified at SB-20
SB-26		
SB-27		
SB-28		
SB-29		
SB-30		

Soil and Groundwater Sampling Methodology

Soil borings were advanced to depths of 24 feet below grade (ft bg) or until groundwater or refusal was encountered, whichever occurred first, using a Geoprobe® direct-push sampling system. The purpose of the borings was to field screen soils, determine geological conditions, and collect soil and groundwater samples for laboratory analysis. All soil sample intervals were inspected in the field for odors and staining, and field screened using a photoionization detector (PID). Field screening results and soil lithological information are provided on soil boring logs included as **Attachment A**.

One (1) soil sample interval from each boring was selected for laboratory analysis based on field inspection observations and screening results. The soil samples were collected from the highest screened, unsaturated, interval from each boring and submitted to Pace Analytical Laboratories, LLC (Pace) located in Indianapolis, Indiana. All of the soil samples were submitted for laboratory analysis of volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs). In addition, soil samples collected at SB-1 through SB-4 and SB-25 through SB-30 were also submitted for laboratory analysis of total lead, while soil samples collected at SB-9 through SB-14 and SB-21 were also submitted for laboratory analysis of Resource Conservation and Recovery Act (RCRA) 8 Metals.

Each Geoprobe® boring was converted into a temporary, 1-inch diameter PVC well to aid in the collection of groundwater samples. Groundwater samples were collected from the temporary wells using a check valve attached to new, disposable sample tubing. All groundwater samples were submitted to Pace for laboratory analysis of VOCs and PAHs. In addition, groundwater samples collected from SB-1 through SB-4, SB-25, SB-26, and SB-28 through SB-30 were submitted for dissolved lead (lab filtered) analysis. The

temporary wells at SB-5, SB-7, SB-23, SB-24, and SB-27 did not produce an adequate volume of groundwater for sample collection. Therefore, one (1) additional soil sample was collected from the deepest advanced soil interval in each of these borings and submitted for laboratory analysis of VOCs and PAHs.

August Mack field procedures for Geoprobe® soil and groundwater sampling are provided in **Attachment B**.

Field Observations

The utility locating activities and GPR search completed prior to completing the on-Site borings revealed the following:

- GPR equipment identified an anomaly in the area of the former 500-gallon diesel UST on Parcel C that was characteristic of fill material, indicating it was previously removed via excavation.
- GPR equipment identified an anomaly in the area of the 6,000-gallon UST on Parcel B that was characteristic of an in-place UST, which was further confirmed by the visual observation of a cement pad located on the ground in the same area.
- GPR equipment did not identify any anomalies indicating excavations or existing USTs in the area of the former filling station on Parcel A.
- GPR equipment identified an approximately 10-foot by 10-foot anomaly characteristic of an excavation associated with the former dry well in the parking lot abutting the northern exterior of the maintenance building on Parcel B.

Inspection of collected soil samples revealed that the subsurface geology consists primarily of silty clay to the depths investigated. Bedrock refusal was encountered at most borings between 9 and 14 ft bg. Numerous smaller layers of highly variable lithology classifications were observed above and within the large interval of silty clay found throughout the entire Site. Saturation was primarily encountered between 6 ft bg and bedrock.

Field observations and PID measurements collected from the soil borings during the first mobilization to the Site revealed evidence of staining, odors, and/or elevated PID readings at multiple boring locations throughout the Site, including SB-1 and SB-2 on Parcel A; and SB-7, SB-13, SB-14, SB-17, and SB-19 through SB-30 on Parcel B. The highest PID readings at the Site (greater than 1,000 parts per million (ppm)) were identified at SB-1 and SB-2 on Parcel A; and at SB-27 on Parcel B. Specific PID readings and other pertinent field observations for each boring are noted in the attached boring logs in **Attachment A**.

Soil Analytical Results

The soil analytical results were compared to the Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) 2018 Soil Migration to Groundwater (MTG) Screening Levels (SLs), Residential Direct Contact (DC) SLs, Commercial/Industrial DC SLs, and Excavation DC SLs.

The laboratory analysis reported multiple VOCs, PAHs, and/or RCRA 8 Metals above the laboratory reporting limits in several samples across the Site. All were reported below applicable IDEM RCG SLs with the exception of the following:

Soil MTG SL Exceedances

Soil Boring ID	Depth (ft bg)	Analyte(s)
SB-1	6-8	Naphthalene (as PAH)
SB-2	4-6	1-Methylnaphthalene
SB-5	2-4	Naphthalene (as PAH)
SB-10	10-12	Arsenic
SB-14	4-6	Arsenic
SB-20	2-4	Benzene, Naphthalene (as VOC & PAH), 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 1-Methylnaphthalene, & 2-Methylnaphthalene
SB-21	2-4	Arsenic
SB-25	2-4	Benzene, n-Propylbenzene, 1-Methylnaphthalene, 2-Methylnaphthalene, & Naphthalene (as PAH)
SB-26	2-4	Benzene, 1-Methylnaphthalene, 2-Methylnaphthalene, & Naphthalene (as PAH)
SB-27	2-4 & 6-7	Benzene, 1-Methylnaphthalene, & 2-Methylnaphthalene
	2-4	n-Propylbenzene & Naphthalene (as PAH)
SB-28	2-4 & 6-8	Benzene, 1-Methylnaphthalene, & 2-Methylnaphthalene
	2-4	Naphthalene (as PAH)
SB-29	2-4	1-Methylnaphthalene & 2-Methylnaphthalene
SB-30	4-6	1-Methylnaphthalene & 2-Methylnaphthalene

Residential DC SL Exceedances

Soil Boring ID	Depth (ft bg)	Analyte
SB-10	10-12	Arsenic

Laboratory analysis did not reveal any VOC, PAH, and/or RCRA 8 Metal constituents above their respective Commercial/Industrial DC or Excavation DC SLs.

Soil analytical results are presented on **Figure 2** and summarized in **Table 1**. A copy of the laboratory analytical report and chain of custody documentation is included in **Attachment C**.

Groundwater Analytical Results

The groundwater analytical results were compared to the IDEM RCG 2018 Residential Tap Water SLs, Residential Vapor Intrusion Groundwater (VIGW) SLs, and Commercial/Industrial VIGW SLs.

The laboratory analysis reported multiple VOCs and/or PAHs above the laboratory reporting limits in sixteen (16) of the soil borings. All were below applicable IDEM RCG SLs with the exception of the following:

Residential Tap Water SL Exceedances

Soil Boring ID	Screened Interval (ft bg)	Analyte(s)
SB-1	5-10	Naphthalene (as PAH)
SB-2	3.5-8.5	Benzo(a)anthracene & Benzo(a)pyrene
SB-13	5-15	Benzo(a)anthracene
SB-17	2-12	Benzo(a)anthracene & Benzo(a)pyrene
SB-20	0-10	Benzene & 1-Methylnaphthalene
SB-22	4-14	1-Methylnaphthalene & Naphthalene (as PAH)
SB-25	2-12	1-Methylnaphthalene & 2-Methylnaphthalene
SB-26	2-12	Benzene, 1,2,4-Trimethylbenzene, 1-Methylnaphthalene, 2-Methylnaphthalene, & Naphthalene (as PAH)
SB-28	2-12	Benzene, 1-Methylnaphthalene & 2-Methylnaphthalene

Soil Boring ID	Screened Interval (ft bg)	Analyte(s)
SB-29	4-9	Fluorene, 1-Methylnaphthalene, & 2-Methylnaphthalene
SB-30	2-12	Benzene, Isopropylbenzene (Cumene), n-Propylbenzene, 1-Methylnaphthalene, & 2-Methylnaphthalene

Residential VIGW SL Exceedances

Soil Boring ID	Screened Interval (ft bg)	Analyte
SB-20	0-10	Benzene
SB-26	2-12	Benzene
SB-28	4-9	Benzene
SB-30	2-12	Benzene

Commercial/Industrial VIGW SL Exceedances

Soil Boring ID	Screened Interval (ft bg)	Analyte
SB-26	2-12	Benzene
SB-28	2-12	Benzene
SB-30	2-12	Benzene

Groundwater analytical results are presented on **Figure 3** and summarized in **Table 2**. A copy of the laboratory analytical report and chain of custody documentation is included in **Attachment C**.

SUMMARY AND CONCLUSION

August Mack has completed Phase II Subsurface Investigation activities at the Indiana University Health Bloomington Hospital Campus in Bloomington, Indiana. A total of thirty (30) soil borings (SB-1 through SB-30) were advanced on-Site to determine if subsurface conditions had been impacted by the RECs identified during the recent Phase I ESA. The investigation revealed the following results:

Parcel A

- GPR equipment did not identify any evidence of orphan USTs in the area of the former filling station.
- There were no impacts to soil exceeding the DC SLs in the area of the former filling station.
- Petroleum-related PAHs were identified in groundwater in the area of the former filling station exceeding the Residential Tap Water SL.

Parcel B

- No evidence of petroleum impacts migrating onto the Site from the former off-Site bulk oil facility/filling station to the northwest was identified.
- In the borings surrounding the maintenance building and former dry well location, only one (1) of the groundwater samples identified a constituent of concern (benzo(a)anthracene) above the Residential Tap Water SL. Arsenic was also reported in soil in two (2) of the samples exceeding the Soil MTG SL and/or Residential DC SL.
- GPR equipment confirmed the 6,000-gallon diesel UST remains in place along the north side of the services building. Petroleum-related PAHs were identified in soil near the UST exceeding the Soil MTG SL; however, no petroleum impacts were identified in groundwater.
- In the boring on the southeast portion of Parcel B near a former bulk oil facility, petroleum-related PAHs were identified in groundwater exceeding the Residential Tap Water SLs.
- Multiple petroleum-related VOCs, PAHs, and arsenic were identified in soil exceeding the Soil MTG SL, but below the DC SLs on the northeast portion of Parcel B in the vicinity of a former bulk oil facility. Groundwater samples from this area revealed benzene at concentrations exceeding the Commercial/Industrial VIGWLS, and other petroleum-related VOCs and PAHs exceeding their respective Residential Tap Water SLs.

Parcel C

- GPR equipment did not identify any evidence of an orphan UST remaining in the former location of the 500-gallon diesel UST.
- No evidence of a release was identified in the area of the former 500-gallon diesel UST.

Based on the investigation results presented above, the following conclusions can be made regarding the current Site conditions:

- Although arsenic was identified in three (3) soil samples above an IDEM RCG SL, the reported arsenic concentrations are consistent with background concentrations for the State of Indiana based on the United States Geological Survey (USGS) Geochemical and Mineralogical Data for Soils of the Conterminous United States.[1] In addition, the single arsenic detection that exceeded its Residential DC SL was at a depth of 10 to 12 ft bg, which would not present a direct contact exposure risk.
- Petroleum releases, likely attributed to historical Site operations, were identified on Parcel A in the area of the former fillings station; on Parcel B near the maintenance building; and on the east portion of Parcel B in the area of the two (2) former bulk oil facilities.
- The direct contact exposure pathway is incomplete across the Site since there were no constituents of concern identified above the DC SLs (with the exception of arsenic at 10 to 12 ft bg, discussed above).
- The groundwater exposure pathway is incomplete since no wells are located on-Site and the Site is connected to the municipal water supply.
- The vapor exposure pathway on the northeast portion of Parcel B cannot be ruled out due to the concentrations of benzene above the Commercial/Industrial VIGW SL.
- The extent of benzene in groundwater at the northeast portion of Parcel B exceeding the VIGW SL has not been defined to the north and east.

We appreciate the opportunity to provide you with environmental consulting services and trust that this submittal is in accordance with your needs. Please feel free to contact us if you have any questions or comments, or require additional information regarding this project or the project site.

Sincerely,

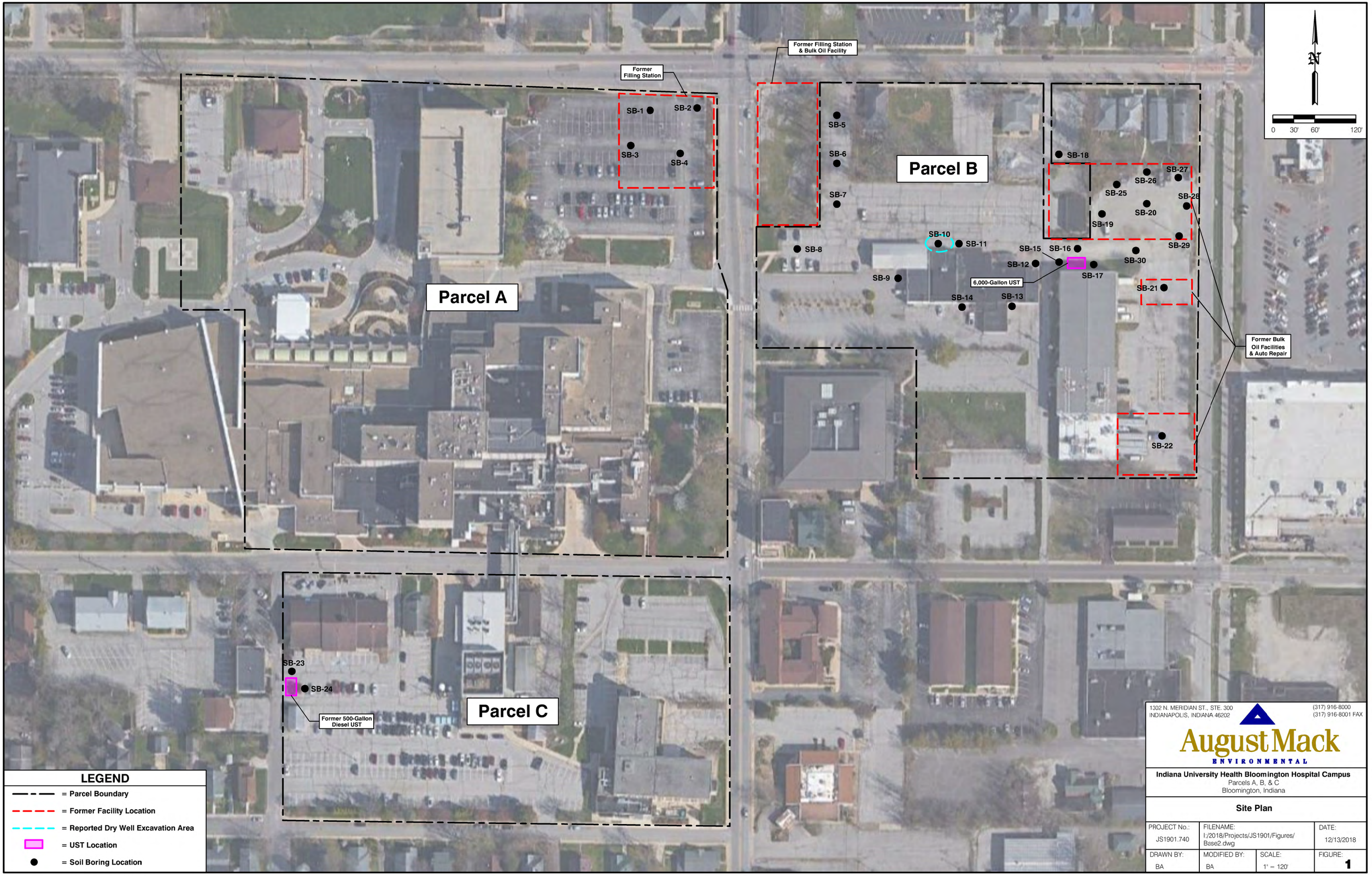
Tyler Zschiedrich
Senior Environmental Site Assessor

Brian P. Wilson
Principal, Transaction Services

Attachments

[1] Smith, David B., et al. "Geochemical and Mineralogical Data for Soils of the Conterminous United States." *Data Series*, Appendix 2a, 3a, 4a; 2013, doi:10.3133/ds801. Background arsenic concentrations for Indiana range from 2 mg/kg to 110 mg/kg with an average concentration of 8.6 mg/kg.

FIGURES



LEGEND

- = Parcel Boundary
- = Former Facility Location
- = Reported Dry Well Excavation Area
- = UST Location
- = Soil Boring Location

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Indiana University Health Bloomington Hospital Campus
Parcels A, B, & C
Bloomington, Indiana

Site Plan

PROJECT No.:	FILENAME:		DATE:
JS1901.740	I:/2018/Projects/JS1901/Figures/Base2.dwg		12/13/2018
DRAWN BY:	MODIFIED BY:	SCALE:	FIGURE:
BA	BA	1" = 120'	1

Sample ID (and Depth - ft.):	SB-1 (6-8)
Sample Date:	09/24/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
Naphthalene	0.165 ^
All Other Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Lead	BSL
All Other RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-2 (4-6)
Sample Date:	09/24/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	1.20 ^
All Other Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Lead	BSL
All Other RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-4 (2-4)
Sample Date:	09/24/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Lead	BSL
All Other RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-5 (2-4)	SB-5 (8-10)
Sample Date:	09/27/2015	09/27/2015
Parameters		
VOCs (via USEPA Method 8260)		
All Analyzed VOCs	BSL	BSL
PAHs (via USEPA Method 8270 SIM)		
Naphthalene	0.638 ^	BSL
All Other Analyzed PAHs	BSL	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)		
All RCRA 8 Metals	NA	NA

Sample ID (and Depth - ft.):	SB-18 (6-8)
Sample Date:	09/26/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-25 (2-4)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
Benzene	0.15 ^
n-Propylbenzene	29.0 ^
All Other Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	15.1 ^
2-Methylnaphthalene	18.8 ^
Naphthalene	1.3 ^
All Other Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Lead	BSL
All Other RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-26 (2-4)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
Benzene	4.1 ^
All Other Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	21.3 ^
2-Methylnaphthalene	32.9 ^
Naphthalene	0.83 ^
All Other Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Lead	BSL
All Other RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-3 (4-6)
Sample Date:	09/24/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Lead	BSL
All Other RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-6 (4-6)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-19 (2-4)
Sample Date:	09/26/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-27 (2-4)	SB-27 (6-7)
Sample Date:	11/15/2015	11/15/2015
Parameters		
VOCs (via USEPA Method 8260)		
Benzene	4.0 ^	4.2 ^
n-Propylbenzene	30.1 ^	BSL
All Other Analyzed VOCs	BSL	BSL
PAHs (via USEPA Method 8270 SIM)		
1-Methylnaphthalene	42.7 ^	14.1 ^
2-Methylnaphthalene	56.6 ^	22.6 ^
Naphthalene	3.5 ^	BSL
All Other Analyzed PAHs	BSL	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)		
Lead	BSL	BSL
All Other RCRA 8 Metals	NA	NA

Sample ID (and Depth - ft.):	SB-28 (2-4)	SB-28 (6-8)
Sample Date:	11/15/2015	11/15/2015
Parameters		
VOCs (via USEPA Method 8260)		
Benzene	0.13 ^	0.18 ^
All Other Analyzed VOCs	BSL	BSL
PAHs (via USEPA Method 8270 SIM)		
1-Methylnaphthalene	25.0 ^	5.8 ^
2-Methylnaphthalene	28.9 ^	6.5 ^
Naphthalene	1.0 ^	BSL
All Other Analyzed PAHs	BSL	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)		
Lead	BSL	BSL
All Other RCRA 8 Metals	NA	NA

Sample ID (and Depth - ft.):	SB-7 (8-10)	SB-7 (12-14)
Sample Date:	09/27/2015	09/27/2015
Parameters		
VOCs (via USEPA Method 8260)		
All Analyzed VOCs	BSL	BSL
PAHs (via USEPA Method 8270 SIM)		
All Analyzed PAHs	BSL	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)		
All RCRA 8 Metals	NA	NA

Sample ID (and Depth - ft.):	SB-20 (2-4)
Sample Date:	09/26/2015
Parameters	
VOCs (via USEPA Method 8260)	
Benzene	0.859 ^
Naphthalene	5.30 ^
1,2,4-Trimethylbenzene	6.79 ^
1,3,5-Trimethylbenzene	7.67 ^
All Other Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	33.2 ^
2-Methylnaphthalene	38.1 ^
Naphthalene	3.80 ^
All Other Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-8 (2-4)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-29 (2-4)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	10.8 ^
2-Methylnaphthalene	5.3 ^
All Other Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Lead	BSL
All Other RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-10 (10-12)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Arsenic	13.4 ^
All Other Analyzed RCRA 8 Metals	BSL

Sample ID (and Depth - ft.):	SB-30 (4-6)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	3.4 ^
2-Methylnaphthalene	4.7 ^
All Other Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Lead	BSL
All Other RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-9 (4-6)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All Analyzed RCRA 8 Metals	BSL

Sample ID (and Depth - ft.):	SB-21 (2-4)
Sample Date:	09/26/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Arsenic	8.5 ^
All Other Analyzed RCRA 8 Metals	BSL

Sample ID (and Depth - ft.):	SB-17 (6-8)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-23 (2-4)	SB-23 (8-10)
Sample Date:	09/26/2015	09/26/2015
Parameters		
VOCs (via USEPA Method 8260)		
All Analyzed VOCs	BSL	BSL
PAHs (via USEPA Method 8270 SIM)		
All Analyzed PAHs	BSL	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)		
All RCRA 8 Metals	NA	NA

Sample ID (and Depth - ft.):	SB-11 (6-8)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All Analyzed RCRA 8 Metals	BSL

Sample ID (and Depth - ft.):	SB-14 (4-6)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
Arsenic	8.0 ^
All Other Analyzed RCRA 8 Metals	BSL

Sample ID (and Depth - ft.):	SB-13 (2-4)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All Analyzed RCRA 8 Metals	BSL

Sample ID (and Depth - ft.):	SB-12 (6-8)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All Analyzed RCRA 8 Metals	BSL

Sample ID (and Depth - ft.):	SB-15 (2-4)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-16 (6-8)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-22 (10-12)
Sample Date:	09/26/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BSL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)	
All RCRA 8 Metals	NA

Sample ID (and Depth - ft.):	SB-24 (4-6)	SB-24 (22-24)
Sample Date:	09/26/2015	09/26/2015
Parameters		
VOCs (via USEPA Method 8260)		
All Analyzed VOCs	BSL	BSL
PAHs (via USEPA Method 8270 SIM)		
All Analyzed PAHs	BSL	BSL
RCRA 8 Metals (via USEPA Methods 6010/7471)		
All RCRA 8 Metals	NA	NA

LEGEND

- = Parcel Boundary
- = Former Facility Location
- = Reported Dry Well Excavation Area
- = UST Location
- = Soil Boring Location

Abbreviations & Notes

All results are reported in milligrams per kilogram (mg/kg)
All IDEM SLs are based on the RCG Table A-6 Screening Levels with updates
IDEM = Indiana Department of Environmental Management; DC = Direct Contact
MTG = Migration to Groundwater; RCG = Remediation Closure Guide
COM/IND = Commercial/Industrial; BSL = Below Laboratory Reporting Limits
BSL = Below Applicable IDEM RCG 2015 SLs
E = Reporting limit exceeds SL due to dilution and/or analytical method limitations
USEPA = United States Environmental Protection Agency; SL = Screening Level
VOCs = Volatile Organic Compounds; PAHs = Polycyclic Aromatic Hydrocarbons
RCRA = Resource Conservation and Recovery Act; NA = Not Analyzed
The following denote the symbol and color of SL exceedances:
^ = At or Above IDEM RCG 2015 Soil MTG SL
* = At or Above IDEM RCG 2015 Residential DC SL
** = At or Above IDEM RCG 2015 COM/IND DC SL
# = At or Above IDEM RCG 2015 Excavation DC SL

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Soil Analytical Results Map

PROJECT No.:	FILENAME:	DATE:
JS1901.740	I:/2018/Projects/JS1901/Figures/Base2.dwg	01/07/2019
DRAWN BY:	MODIFIED BY: / SCALE:	FIGURE:
BA	BA / 1" = 60'	2

Sample ID (and Depth - ft.):	SB-1-GW (5-10)
Sample Date:	09/24/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
Naphthalene	1.9 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-2-GW (3.5-8.5)
Sample Date:	09/24/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
Benzo(a)anthracene	0.57 ^
Benzo(a)pyrene	0.66 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-4-GW (6-11)
Sample Date:	09/24/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-5-GW (0-9)
Sample Date:	NS
Parameters	
VOCs (via USEPA Method 8260)	
All VOCs	NS
PAHs (via USEPA Method 8270 SIM)	
All PAHs	NS
Lead (via USEPA Method 6010)	
Lead, dissolved	NS

Sample ID (and Depth - ft.):	SB-18-GW (1-11)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-25-GW (2-12)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL E
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	63.7 ^
2-Methylnaphthalene	81.9 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-26-GW (2-12)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
Benzene	2.48 ^
1,2,4-Trimethylbenzene	85.2 ^
All Other Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	37.7 ^
2-Methylnaphthalene	56.7 ^
Naphthalene	5.0 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-27-GW (0-9)
Sample Date:	NS
Parameters	
VOCs (via USEPA Method 8260)	
All VOCs	NS
PAHs (via USEPA Method 8270 SIM)	
All PAHs	NS
Lead (via USEPA Method 6010)	
Lead, dissolved	NS

Sample ID (and Depth - ft.):	SB-3-GW (5-10)
Sample Date:	09/24/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-6-GW (4-14)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-19-GW (0-9)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-20-GW (0-10)
Sample Date:	09/26/2015
Parameters	
VOCs (via USEPA Method 8260)	
Benzene	105 ^
All Other Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	27.7 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-7-GW (4-9)
Sample Date:	NS
Parameters	
VOCs (via USEPA Method 8260)	
All VOCs	NS
PAHs (via USEPA Method 8270 SIM)	
All PAHs	NS
Lead (via USEPA Method 6010)	
Lead, dissolved	NS

Sample ID (and Depth - ft.):	SB-8-GW (6-11)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-10-GW (4-14)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-9-GW (2-12)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-16-GW (6-11)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-28-GW (2-12)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
Benzene	580 ^
All Other Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	356 ^
2-Methylnaphthalene	402 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-29-GW (4-9)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL E
PAHs (via USEPA Method 8270 SIM)	
Fluorene	337 ^
1-Methylnaphthalene	2,560 ^
2-Methylnaphthalene	2,790 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-30-GW (2-12)
Sample Date:	11/15/2015
Parameters	
VOCs (via USEPA Method 8260)	
Benzene	505 ^
Isopropylbenzene (Cumene)	630 ^
n-Propylbenzene	1,180 ^
All Other Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	1,750 ^
2-Methylnaphthalene	2,360 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	BRL

Sample ID (and Depth - ft.):	SB-21-GW (0-9)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-17-GW (2-12)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
Benzo(a)anthracene	0.36 ^
Benzo(a)pyrene	0.22 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-11-GW (2-12)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-14-GW (6-16)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-13-GW (5-15)
Sample Date:	09/27/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
Benzo(a)anthracene	0.37 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-12-GW (0-10)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-15-GW (0-10)
Sample Date:	09/25/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL
PAHs (via USEPA Method 8270 SIM)	
All Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-22-GW (4-14)
Sample Date:	09/26/2015
Parameters	
VOCs (via USEPA Method 8260)	
All Analyzed VOCs	BRL E
PAHs (via USEPA Method 8270 SIM)	
1-Methylnaphthalene	13.9 ^
Naphthalene	2.1 ^
All Other Analyzed PAHs	BRL
Lead (via USEPA Method 6010)	
Lead, dissolved	NA

Sample ID (and Depth - ft.):	SB-23-GW (0-9)
Sample Date:	NS
Parameters	
VOCs (via USEPA Method 8260)	
All VOCs	NS
PAHs (via USEPA Method 8270 SIM)	
All PAHs	NS
Lead (via USEPA Method 6010)	
Lead, dissolved	NS

Sample ID (and Depth - ft.):	SB-24-GW (0-9)
Sample Date:	NS
Parameters	
VOCs (via USEPA Method 8260)	
All VOCs	NS
PAHs (via USEPA Method 8270 SIM)	
All PAHs	NS
Lead (via USEPA Method 6010)	
Lead, dissolved	NS

LEGEND

- = Parcel Boundary
- = Former Facility Location
- = Reported Dry Well Excavation Area
- = UST Location
- = Soil Boring Location

Abbreviations & Notes
All results are reported in micrograms per liter (µg/L)
All IDEM SLs are based on the RCG Table A-6: Screening Levels with updates
IDEM = Indiana Department of Environmental Management; SL = Screening Level
COM/IND = Commercial/Industrial; RCG = Remediation Closure Guide
E = Reporting limit exceeds SL due to dilution and/or analytical method limitations
USEPA = United States Environmental Protection Agency
BRL = Below Laboratory Reporting Limits
BSL = Below Applicable IDEM RCG 2015 SLs
VOCs = Volatile Organic Compounds; PAHs = Polycyclic Aromatic Hydrocarbons
VIGW = Vapor Intrusion Groundwater; NS = Not Sampled; NA = Not Analyzed
The following denote the symbol and color of SL exceedances:
^ = At or Above IDEM RCG 2015 Residential Tap Water SL
^ = At or Above IDEM RCG 2015 Residential VIGW SL
^ = At or Above IDEM RCG 2015 COM/IND VIGW SL

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Groundwater Analytical Results Map

PROJECT No.:	FILENAME:	DATE:
JS1901.740	I:/2018/Projects/JS1901/Figures/Base2.dwg	01/07/2019
DRAWN BY:	MODIFIED BY:	SCALE:
BA	BA	1" = 60'

FIGURE: **3**

TABLES

TABLE 1

SUMMARY OF SOIL ANALYTICAL DATA
INDIANA UNIVERSITY HEALTH BLOOMINGTON HOSPITAL CAMPUS

August Mack ENVIRONMENTAL	*Sample Description:*	IDEM RCG 2018 RESIDENTIAL DIRECT CONTACT SLs (*)	IDEM RCG 2018 COMMERCIAL DIRECT CONTACT SLs (**)	IDEM RCG 2018 EXCAVATION DIRECT CONTACT SLs (#)	IDEM RCG 2018 SOIL MIGRATION TO GROUNDWATER SLs (^)	Phase II Subsurface Investigation: Task 1 Parcel A				Phase II Subsurface Investigation: Task 1 Parcel B									
	Sample ID (Depth - ft.):					SB-1 (6-8)	SB-2 (4-6)	SB-3 (4-6)	SB-4 (2-4)	SB-5 (2-4)	SB-5 (8-10)	SB-6 (4-6)	SB-7 (8-10)	SB-7 (12-14)	SB-8 (2-4)	SB-9 (4-6)	SB-10 (10-12)	SB-11 (6-8)	SB-12 (6-8)
	Sample Date:					09/24/2018	09/24/2018	09/24/2018	09/24/2018	09/27/2018	09/27/2018	09/27/2018	09/27/2018	09/27/2018	09/27/2018	09/27/2018	09/25/2018	09/25/2018	09/25/2018
VOLATILE ORGANIC COMPOUDS (VOCs) VIA USEPA METHOD 8260																			
Acetone (2-Propanone)		**85,000**	**100,000**	**100,000**	**57**	<15.3	<4.1	<0.118	<0.094	<0.114	<0.098	**0.139**	<5.1	<6.0	<0.088	<0.105	<0.116	<0.117	<0.119
Benzene		**17**	**51**	**1,800**	**0.051**	<0.765 E	<0.205 E	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256 E	<0.301 E	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
n-Butylbenzene		**110**	**110**	**110**	**64**	<0.765	**1.51**	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
sec-Butylbenzene		**150**	**150**	**150**	**120**	<0.765	**0.574**	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	**0.422**	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
tert-Butylbenzene		**180**	**180**	**180**	**31**	<0.765	<0.205	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
Chloroform		**4.5**	**14**	**1,900**	**0.44**	<0.765 E	<0.205	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
Ethylbenzene		**81**	**250**	**480**	**16**	<0.765	<0.205	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
n-Hexane		**140**	**140**	**140**	**210**	**1.55**	**4.29**	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
Isopropylbenzene (Cumene)		**270**	**270**	**270**	**15**	<0.765	**0.403**	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
p-Isopropyltoluene		**NE**	**NE**	**NE**	**NE**	<0.765	<0.205	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
Naphthalene		**53**	**170**	**3,100**	**0.11**	<0.765 E	<0.205 E	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256 E	<0.301 E	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
n-Propylbenzene		**260**	**260**	**260**	**25**	<0.765	**1.03**	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
Toluene		**820**	**820**	**820**	**14**	<0.765	<0.205	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
1,2,4-Trimethylbenzene		**220**	**220**	**220**	**1.6**	<0.765	<0.205	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
1,3,5-Trimethylbenzene		**180**	**180**	**180**	**1.7**	<0.765	<0.205	<0.0059	<0.0047	<0.0057	<0.0049	<0.0060	<0.256	<0.301	<0.0044	<0.0052	<0.0058	<0.0058	<0.0060
Xylene (Total)		**260**	**260**	**260**	**200**	<1.5	<0.410	<0.012	<0.0094	<0.011	<0.0098	<0.012	<0.513	<0.601	<0.0088	<0.011	<0.012	<0.012	<0.012
All Other Analyzed VOCs		**Varies**	**Varies**	**Varies**	**Varies**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) VIA USEPA METHOD 8270 SIM																			
Acenaphthene		**5,000**	**45,000**	**100,000**	**110**	<0.019	**0.0120**	<0.0064	<0.0063	<0.029	<0.0062	<0.026	<0.0063	**0.0276**	<0.029	<0.0053	<0.0065	<0.0055	<0.0067
Acenaphthylene		**NE**	**NE**	**NE**	**NE**	<0.019	**0.0083**	<0.0064	<0.0063	**0.166**	<0.0062	**0.0334**	<0.0063	**0.0152**	<0.029	<0.0053	<0.0065	<0.0055	<0.0067
Anthracene		**25,000**	**100,000**	**100,000**	**1,200**	<0.019	<0.0063	<0.0064	<0.0063	**0.156**	<0.0062	**0.0265**	**0.0144**	**0.0218**	<0.029	<0.0053	<0.0065	<0.0055	<0.0067
Benzo(a)anthracene		**15**	**210**	**12,000**	**2.1**	<0.019	<0.0063	<0.0064	**0.0064**	**0.608**	<0.0062	**0.0953**	<0.0063	<0.0071	**0.122**	<0.0053	<0.0065	<0.0055	<0.0067
Benzo(a)pyrene		**1.5**	**21**	**500**	**4.7**	<0.019	<0.0063	<0.0064	**0.0079**	**0.593**	<0.0062	**0.0830**	<0.0063	<0.0071	**0.104**	**0.0056**	<0.0065	<0.0055	<0.0067
Benzo(b)fluoranthene		**15**	**210**	**12,000**	**60**	<0.019	<0.0063	<0.0064	**0.0150**	**0.637**	<0.0062	**0.0904**	<0.0063	<0.0071	**0.148**	**0.0064**	<0.0065	<0.0055	<0.0067
Benzo(g,h,i)perylene		**NE**	**NE**	**NE**	**NE**	<0.019	<0.0063	<0.0064	**0.0085**	**0.481**	<0.0062	**0.0737**	<0.0063	<0.0071	**0.0659**	<0.0053	<0.0065	<0.0055	<0.0067
Benzo(k)fluoranthene		**150**	**2,100**	**100,000**	**590**	<0.019	<0.0063	<0.0064	**0.0110**	**0.514**	<0.0062	**0.0759**	<0.0063	<0.0071	**0.113**	<0.0053	<0.0065	<0.0055	<0.0067
Chrysene		**1,500**	**21,000**	**100,000**	**1,800**	<0.019	<0.0063	<0.0064	**0.0139**	**0.673**	<0.0062	**0.126**	<0.0063	<0.0071	**0.148**	<0.0053	<0.0065	<0.0055	<0.0067
Dibenz(a,h)anthracene		**1.5**	**21**	**1,200**	**19**	<0.019	<0.0063	<0.0064	<0.0063	**0.171**	<0.0062	<0.026	<0.0063	<0.0071	**0.0309**	<0.0053	<0.0065	<0.0055	<0.0067
Fluoranthene		**3,400**	**30,000**	**68,000**	**1,800**	**0.0210**	**0.0079**	**0.0075**	**0.0280**	**1.19**	<0.0062	**0.157**	**0.0103**	**0.0074**	**0.223**	**0.0070**	<0.0065	<0.0055	<0.0067
Fluorene		**3,400**	**30,000**	**68,000**	**110**	<0.019	**0.0242**	<0.0064	<0.0063	<0.029	<0.0062	<0.026	<0.0063	**0.0584**	<0.029	<0.0053	<0.0065	<0.0055	<0.0067
Indeno(1,2,3-cd)pyrene		**15**	**210**	**12,000**	**200**	<0.019	<0.0063	<0.0064	**0.0076**	**0.429**	<0.0062	**0.0488**	<0.0063	<0.0071	**0.0724**	<0.0053	<0.0065	<0.0055	<0.0067
1-Methylnaphthalene		**250**	**390**	**390**	**1.2**	**0.933**	**1.20** ^	**0.0069**	<0.0063	**0.276**	<0.0062	**0.157**	**0.0079**	**0.107**	**0.0609**	<0.0053	<0.0065	<0.0055	<0.0067
2-Methylnaphthalene		**340**	**3,000**	**6,800**	**3.7**	**2.10**	**1.91**	**0.0114**	<0.0063	**0.351**	<0.0062	**0.190**	**0.0065**	<0.0071	**0.0737**	<0.0053	<0.0065	<0.0055	<0.0067
Naphthalene		**53**	**170**	**3,100**	**0.11**	**0.168** ^	<0.0063	**0.0445**	**0.0110**	**0.638** ^	<0.0062	**0.0846**	**0.0172**	<0.0071	**0.0684**	<0.0053	<0.0065	<0.0055	<0.0067
Phenanthrene		**NE**	**NE**	**NE**	**NE**	**0.0193**	**0.0239**	**0.0078**	**0.0127**	**0.872**	<0.0062	**0.268**	<0.0063	**0.0643**	**0.199**	<0.0053	<0.0065	<0.0055	<0.0067
Pyrene		**2,500**	**23,000**	**51,000**	**260**	<0.019	<0.0063	<0.0064	**0.0209**	**1.06**	<0.0062	**0.159**	**0.019**	**0.0124**	**0.180**	**0.0068**	<0.0065	<0.0055	<0.0067
RCRA 8 METALS VIA USEPA METHODS 6010/7471																			
Arsenic		**9.5**	**30**	**920**	**5.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1.8**	**13.4** *;^	**1.5**	**5.5**
Barium		**21,000**	**100,000**	**100,000**	**1,700**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**98.0**	**198**	**3.7**	**152**
Cadmium		**99**	**980**	**1,900**	**7.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.60**	**1.3**	<0.510	**0.67**
Chromium (Total)		**100,000**	**100,000**	**100,000**	**1,000,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**8.4**	**48.3**	**4.5**	**12.7**
Lead		**400**	**800**	**1,000**	**270**	**62.9**	**20.0**	**30.6**	**25.0**	NA	NA	NA	NA	NA	NA	**35.4**	**23.5**	**2.7**	**13.8**
Mercury		**3.1**	**3.1**	**3.1**	**2.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.200	<0.270	<0.210	<0.270
Selenium		**550**	**5,800**	**9,800**	**5.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.2	<1.0	**2.0**
Silver		**550**	**5,800**	**9,800**	**16**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.520	<0.590	<0.510	<0.560

Abbreviations & Notes

IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide
E = Reporting limit (RL) above screening level due to dilution and/or analytical limitations.
NE=Not Established; NA= Not Analyzed; BRL = Below laboratory reporting limits.
SLs = Screening Levels: RCRA = Resource Conservation and Recovery Act

All results and IDEM Screening Levels are reported in milligrams per kilogram (mg/kg).
All IDEM Screening Levels are based on the RCG Table A-6: Screening Levels with updates.

The following denote the symbol and color of screening level exceedances:

* = At or Above IDEM RCG 2018 Residential Direct Contact SLs
** = At or Above IDEM RCG 2018 Commercial/Industrial Direct Contact SLs
# = At or Above IDEM RCG 2018 Excavation Direct Contact SLs
^ = At or Above IDEM RCG 2018 Soil Migration to Groundwater SLs

TABLE 1

SUMMARY OF SOIL ANALYTICAL DATA
INDIANA UNIVERSITY HEALTH BLOOMINGTON HOSPITAL CAMPUS

August Mack ENVIRONMENTAL	Sample Description:	IDEM RCG 2018 RESIDENTIAL DIRECT CONTACT SLs (*)	IDEM RCG 2018 COMMERCIAL DIRECT CONTACT SLs (**)	IDEM RCG 2018 EXCAVATION DIRECT CONTACT SLs (#)	IDEM RCG 2018 SOIL MIGRATION TO GROUNDWATER SLs (^)	Phase II Subsurface Investigation: Task 1 Parcel B (Cont.)										Phase II Subsurface Investigation: Task 1 Parcel C			
	Sample ID (Depth - ft.):					SB-13 (2-4)	SB-14 (4-6)	SB-15 (2-4)	SB-16 (6-8)	SB-17 (6-8)	SB-18 (6-8)	SB-19 (2-4)	SB-20 (2-4)	SB-21 (2-4)	SB-22 (10-12)	SB-23 (2-4)	SB-23 (8-10)	SB-24 (4-6)	SB-24 (22-24)
	Sample Date:					09/27/2018	09/27/2018	09/25/2018	09/25/2018	09/25/2018	09/26/2018	09/26/2018	09/26/2018	09/26/2018	09/26/2018	09/26/2018	09/26/2018	09/26/2018	09/26/2018
VOLATILE ORGANIC COMPOUDS (VOCs) VIA USEPA METHOD 8260																			
Acetone (2-Propanone)		85,000	100,000	100,000	57	<0.108	<0.094	<0.094	<0.107	<0.098	<0.117	<0.114	<5.6	<0.106	<0.105	<0.096	<0.127	<0.096	<0.144
Benzene		17	51	1,800	0.051	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**0.859 ^**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
n-Butylbenzene		110	110	110	64	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**6.12**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
sec-Butylbenzene		150	150	150	120	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**2.26**	<0.0053	**0.0757**	<0.0048	<0.0064	<0.0048	<0.0072
tert-Butylbenzene		180	180	180	31	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	<0.280	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
Chloroform		4.5	14	1,900	0.44	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	<0.280	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
Ethylbenzene		81	250	480	16	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**2.38**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
n-Hexane		140	140	140	210	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**3.24**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
Isopropylbenzene (Cumene)		270	270	270	15	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**2.50**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
p-Isopropyltoluene		NE	NE	NE	NE	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**1.39**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
Naphthalene		53	170	3,100	0.11	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**5.30 ^**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
n-Propylbenzene		260	260	260	25	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**6.51**	<0.0053	**0.0344**	<0.0048	<0.0064	<0.0048	<0.0072
Toluene		820	820	820	14	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	<0.280	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
1,2,4-Trimethylbenzene		220	220	220	1.6	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**6.79 ^**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
1,3,5-Trimethylbenzene		180	180	180	1.7	<0.0054	<0.0047	<0.0047	<0.0054	<0.0049	<0.0059	<0.0057	**7.67 ^**	<0.0053	<0.0052	<0.0048	<0.0064	<0.0048	<0.0072
Xylene (Total)		260	260	260	200	<0.011	<0.0094	<0.0094	<0.011	<0.0098	<0.012	<0.011	**1.04**	<0.011	<0.011	<0.0096	<0.013	<0.0096	<0.014
All Other Analyzed VOCs		Varies	Varies	Varies	Varies	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) VIA USEPA METHOD 8270 SIM																			
Acenaphthene		5,000	45,000	100,000	110	<0.027	<0.031	<0.030	<0.0063	<0.0062	<0.0066	**0.0088**	**3.06**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Acenaphthylene		NE	NE	NE	NE	**0.0377**	**0.0516**	<0.030	<0.0063	<0.0062	<0.0066	<0.0052	**1.02**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Anthracene		25,000	100,000	100,000	1,200	**0.0611**	**0.0456**	<0.030	<0.0063	<0.0062	<0.0066	**0.0091**	<0.028	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Benzo(a)anthracene		15	210	12,000	2.1	**0.179**	**0.101**	**0.0499**	<0.0063	<0.0062	<0.0066	**0.0058**	**0.0848**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Benzo(a)pyrene		1.5	21	500	4.7	**0.163**	**0.146**	**0.0351**	<0.0063	<0.0062	<0.0066	**0.0094**	**0.0799**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Benzo(b)fluoranthene		15	210	12,000	60	**0.183**	**0.130**	**0.0437**	<0.0063	<0.0062	<0.0066	**0.0118**	**0.152**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Benzo(g,h,i)perylene		NE	NE	NE	NE	**0.108**	**0.141**	**0.0328**	<0.0063	<0.0062	<0.0066	**0.0107**	**0.0800**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Benzo(k)fluoranthene		150	2,100	100,000	590	**0.183**	**0.135**	**0.0426**	<0.0063	<0.0062	<0.0066	**0.0095**	**0.0858**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Chrysene		1,500	21,000	100,000	1,800	**0.192**	**0.125**	**0.0846**	<0.0063	<0.0062	<0.0066	**0.0097**	**0.256**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Dibenz(a,h)anthracene		1.5	21	1,200	19	**0.0493**	<0.031	<0.030	<0.0063	<0.0062	<0.0066	<0.0052	<0.028	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Fluoranthene		3,400	30,000	68,000	1,800	**0.354**	**0.218**	**0.0599**	**0.0065**	<0.0062	<0.0066	**0.0122**	**0.783**	**0.0068**	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Fluorene		3,400	30,000	68,000	110	<0.027	<0.031	<0.030	<0.0063	<0.0062	<0.0066	**0.0141**	**5.57**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
Indeno(1,2,3-cd)pyrene		15	210	12,000	200	**0.105**	**0.104**	<0.030	<0.0063	<0.0062	<0.0066	**0.0086**	**0.0674**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
1-Methylnaphthalene		250	390	390	1.2	<0.027	<0.031	**0.0963**	<0.0063	<0.0062	<0.0066	**0.0197**	**33.2 ^**	**0.0085**	**0.0169**	<0.0063	<0.0070	<0.0062	**0.0605**
2-Methylnaphthalene		340	3,000	6,800	3.7	<0.027	**0.0332**	**0.107**	<0.0063	<0.0062	<0.0066	**0.0185**	**38.1 ^**	**0.0091**	**0.0102**	<0.0063	<0.0070	<0.0062	**0.0752**
Naphthalene		53	170	3,100	0.11	<0.027	**0.0561**	**0.0659**	<0.0063	<0.0062	<0.0066	**0.0118**	**3.00 ^**	<0.0065	**0.0113**	**0.0120**	<0.0070	<0.0062	**0.0581**
Phenanthrene		NE	NE	NE	NE	**0.198**	**0.161**	**0.134**	<0.0063	<0.0062	<0.0066	**0.0283**	**8.90**	**0.0085**	<0.0062	<0.0063	<0.0070	<0.0062	**0.0139**
Pyrene		2,500	23,000	51,000	260	**0.272**	**0.202**	**0.0517**	<0.0063	<0.0062	<0.0066	**0.0125**	**0.929**	<0.0065	<0.0062	<0.0063	<0.0070	<0.0062	<0.0076
RCRA 8 METALS VIA USEPA METHODS 6010/7471																			
Arsenic		9.5	30	920	5.9	**4.2**	**8.0 ^**	NA	NA	NA	NA	NA	NA	**8.5 ^**	NA	NA	NA	NA	NA
Barium		21,000	100,000	100,000	1,700	**11.1**	**106**	NA	NA	NA	NA	NA	NA	**95.7**	NA	NA	NA	NA	NA
Cadmium		99	980	1,900	7.5	<0.540	<0.580	NA	NA	NA	NA	NA	NA	<0.640	NA	NA	NA	NA	NA
Chromium (Total)		100,000	100,000	100,000	1,000,000	**6.4**	**24.4**	NA	NA	NA	NA	NA	NA	**46.3**	NA	NA	NA	NA	NA
Lead		400	800	1,000	270	**10.4**	**35.6**	NA	NA	NA	NA	NA	NA	**16.3**	NA	NA	NA	NA	NA
Mercury		3.1	3.1	3.1	2.1	<0.210	<0.250	NA	NA	NA	NA	NA	NA	<0.260	NA	NA	NA	NA	NA
Selenium		550	5,800	9,800	5.3	<1.1	<1.2	NA	NA	NA	NA	NA	NA	<1.3	NA	NA	NA	NA	NA
Silver		550	5,800	9,800	16	<0.540	<0.580	NA	NA	NA	NA	NA	NA	<0.640	NA	NA	NA	NA	NA

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NE=Not Established; NA= Not Analyzed; BRL = Below laboratory reporting limits.
SLs = Screening Levels: RCRA = Resource Conservation and Recovery Act

All results and IDEM Screening Levels are reported in milligrams per kilogram (mg/kg).
All IDEM Screening Levels are based on the RCG Table A-6: Screening Levels with updates.

The following denote the symbol and color of screening level exceedances:

* = At or Above IDEM RCG 2018 Residential Direct Contact SLs
** = At or Above IDEM RCG 2018 Commercial/Industrial Direct Contact SLs
# = At or Above IDEM RCG 2018 Excavation Direct Contact SLs
^ = At or Above IDEM RCG 2018 Soil Migration to Groundwater SLs

TABLE 1

SUMMARY OF SOIL ANALYTICAL DATA
INDIANA UNIVERSITY HEALTH BLOOMINGTON HOSPITAL CAMPUS

August Mack ENVIRONMENTAL	*Sample Description:*	IDEM RCG 2018 RESIDENTIAL DIRECT CONTACT SLs (*)	IDEM RCG 2018 COMMERCIAL DIRECT CONTACT SLs (**)	IDEM RCG 2018 EXCAVATION DIRECT CONTACT SLs (#)	IDEM RCG 2018 SOIL MIGRATION TO GROUNDWATER SLs (^)	Phase II Subsurface Investigation: Task 2 Parcel B							
	Sample ID (Depth - ft.):					SB-25 (2-4)	SB-26 (2-4)	SB-27 (2-4)	SB-27 (6-7)	SB-28 (2-4)	SB-28 (6-8)	SB-29 (2-4)	SB-30 (4-6)
	Sample Date:					11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018
VOLATILE ORGANIC COMPOUDS (VOCs) VIA USEPA METHOD 8260													
Acetone (2-Propanone)		85,000	100,000	100,000	57	<0.120	<0.120	<0.140	<0.100	<0.130	<0.110	<0.083	<0.100
Benzene		17	51	1,800	0.051	**0.15 ^**	**4.1 ^**	**4.0 ^**	**4.2 ^**	**0.13 ^**	**0.18 ^**	**0.0043**	<0.0050
n-Butylbenzene		110	110	110	64	**13.5**	**6.7**	**14.7**	**4.9**	**3.2**	**1.2**	**0.055**	**0.16**
sec-Butylbenzene		150	150	150	120	**5.2**	**2.5**	**5.8**	**1.9**	**0.22**	**0.27**	<0.0042	**0.22**
tert-Butylbenzene		180	180	180	31	<0.0060	<0.0060	<0.0069	**0.038**	<0.0067	<0.0055	<0.0042	<0.0050
Chloroform		4.5	14	1,900	0.44	<0.0060	<0.0060	<0.0069	<0.0051	**0.091**	<0.0055	<0.0042	<0.0050
Ethylbenzene		81	250	480	16	**0.13**	**2.9**	**5.2**	**0.86**	**0.019**	**0.035**	<0.0042	<0.0050
n-Hexane		140	140	140	210	**7.1**	**7.4**	**9.2**	**13.5**	**0.081**	**4.8**	**0.0047**	**0.0070**
Isopropylbenzene (Cumene)		270	270	270	15	**7.5**	**5.1**	**8.4**	**4.0**	**0.32**	**0.66**	**0.027**	**0.27**
p-Isopropyltoluene		NE	NE	NE	NE	<0.0060	<0.0060	<0.0069	**0.080**	<0.0067	**0.071**	<0.0042	<0.0050
Naphthalene		53	170	3,100	0.11	**0.013**	**0.040**	**0.034**	<0.0051	<0.0067	<0.0055	<0.0042	<0.0050
n-Propylbenzene		260	260	260	25	**29.0 ^**	**16.8**	**30.1 ^**	**13.1**	**4.6**	**1.9**	**0.048**	**2.3**
Toluene		820	820	820	14	**0.058**	**0.076**	**0.11**	**0.11**	**0.035**	**0.021**	<0.0042	<0.0050
1,2,4-Trimethylbenzene		220	220	220	1.6	**0.026**	**0.10**	**0.070**	<0.0051	<0.0067	<0.0055	<0.0042	<0.0050
1,3,5-Trimethylbenzene		180	180	180	1.7	<0.0060	**0.078**	<0.0069	<0.0051	<0.0067	<0.0055	<0.0042	<0.0050
Xylene (Total)		260	260	260	200	**0.27**	**0.32**	**0.43**	**0.22**	**0.15**	**0.015**	**0.027**	<0.010
All Other Analyzed VOCs		Varies	Varies	Varies	Varies	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) VIA USEPA METHOD 8270 SIM													
Acenaphthene		5,000	45,000	100,000	110	**0.90**	**0.94**	**1.4**	**0.42**	**0.95**	**0.29**	**0.95**	**0.20**
Acenaphthylene		NE	NE	NE	NE	**0.34**	**0.33**	**0.56**	**0.14**	**0.35**	**0.099**	**0.30**	**0.081**
Anthracene		25,000	100,000	100,000	1,200	<0.028	**0.26**	**0.69**	**0.24**	**0.81**	**0.20**	**0.81**	**0.15**
Benzo(a)anthracene		15	210	12,000	2.1	**0.065**	**0.022**	**0.12**	**0.0084**	**0.14**	**0.0064**	**0.067**	**0.0066**
Benzo(a)pyrene		1.5	21	500	4.7	**0.037**	**0.015**	**0.12**	<0.0070	**0.17**	<0.0062	**0.051**	<0.0063
Benzo(b)fluoranthene		15	210	12,000	60	**0.060**	**0.015**	**0.14**	<0.0070	**0.16**	<0.0062	**0.064**	<0.0063
Benzo(g,h,i)perylene		NE	NE	NE	NE	**0.038**	**0.014**	**0.11**	<0.0070	**0.16**	<0.0062	**0.071**	<0.0063
Benzo(k)fluoranthene		150	2,100	100,000	590	**0.048**	**0.018**	**0.095**	<0.0070	**0.14**	<0.0062	**0.055**	<0.0063
Chrysene		1,500	21,000	100,000	1,800	**0.14**	**0.030**	**0.14**	**0.014**	**0.17**	**0.010**	**0.095**	**0.0096**
Dibenz(a,h)anthracene		1.5	21	1,200	19	<0.028	**0.0055**	**0.046**	<0.0070	**0.092**	<0.0062	<0.028	<0.0063
Fluoranthene		3,400	30,000	68,000	1,800	**0.13**	**0.052**	**0.26**	**0.034**	**0.29**	**0.024**	**0.20**	**0.019**
Fluorene		3,400	30,000	68,000	110	**0.93**	**1.2**	**1.7**	**0.69**	**1.6**	**0.44**	**1.4**	**0.30**
Indeno(1,2,3-cd)pyrene		15	210	12,000	200	<0.028	**0.011**	**0.093**	<0.0070	**0.16**	<0.0062	**0.056**	<0.0063
1-Methylnaphthalene		250	390	390	1.2	**15.1 ^**	**21.3 ^**	**42.7 ^**	**14.1 ^**	**25.0 ^**	**5.8 ^**	**10.8 ^**	**3.4 ^**
2-Methylnaphthalene		340	3,000	6,800	3.7	**18.8 ^**	**32.9 ^**	**56.6 ^**	**22.6 ^**	**28.9 ^**	**6.9 ^**	**5.3 ^**	**4.7 ^**
Naphthalene		53	170	3,100	0.11	**1.3 ^**	**0.83 ^**	**3.5 ^**	<0.0070	**1.0 ^**	<0.0062	<0.028	<0.0063
Phenanthrene		NE	NE	NE	NE	**1.5**	**1.3**	**3.4**	**1.7**	**3.5**	**1.2**	**3.0**	**0.81**
Pyrene		2,500	23,000	51,000	260	**0.16**	**0.065**	**0.29**	**0.075**	**0.42**	**0.060**	**0.42**	**0.045**
RCRA 8 METALS VIA USEPA METHODS 6010/7471													
Arsenic		9.5	30	920	5.9	NA	NA	NA	NA	NA	NA	NA	NA
Barium		21,000	100,000	100,000	1,700	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium		99	980	1,900	7.5	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Total)		100,000	100,000	100,000	1,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Lead		400	800	1,000	270	**42.1**	**16.2**	**56.5**	**48.8**	**60.2**	**14.9**	**77.9**	**17.8**
Mercury		3.1	3.1	3.1	2.1	NA	NA	NA	NA	NA	NA	NA	NA
Selenium		550	5,800	9,800	5.3	NA	NA	NA	NA	NA	NA	NA	NA
Silver		550	5,800	9,800	16	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations & Notes

IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide
E = Reporting limit (RL) above screening level due to dilution and/or analytical limitations.
NE=Not Established; NA= Not Analyzed; BRL = Below laboratory reporting limits.
SLs = Screening Levels: RCRA = Resource Conservation and Recovery Act

All results and IDEM Screening Levels are reported in milligrams per kilogram (mg/kg).
All IDEM Screening Levels are based on the RCG Table A-6: Screening Levels with updates.

The following denote the symbol and color of screening level exceedances:

* = At or Above IDEM RCG 2018 Residential Direct Contact SLs
** = At or Above IDEM RCG 2018 Commercial/Industrial Direct Contact SLs
# = At or Above IDEM RCG 2018 Excavation Direct Contact SLs
^ = At or Above IDEM RCG 2018 Soil Migration to Groundwater SLs

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA
INDIANA UNIVERSITY HEALTH BLOOMINGTON HOSPITAL CAMPUS

August Mack ENVIRONMENTAL	Sample Description:	IDEM RCG 2018 RESIDENTIAL TAP WATER SLs (^)	IDEM RCG 2018 RESIDENTIAL VIGWSLs (*)	IDEM RCG 2018 COM/IND VIGWSLs (**)	Phase II Subsurface Investigation: Task 1 Parcel A				Phase II Subsurface Investigation: Task 1 Parcel B								
	Sample ID (Depth - ft.):				SB-1-GW (5-10)	SB-2-GW (3.5-8.5)	SB-3-GW (5-10)	SB-4-GW (6-11)	SB-6-GW (4-14)	SB-8-GW (6-11)	SB-9-GW (2-12)	SB-10-GW (4-14)	SB-11-GW (2-12)	SB-12-GW (0-10)	SB-13-GW (5-15)	SB-14-GW (6-16)	SB-15-GW (0-10)
	Sample Date:				09/24/2018	09/24/2018	09/24/2018	09/24/2018	09/27/2018	09/27/2018	09/27/2018	09/25/2018	09/25/2018	09/25/2018	09/27/2018	09/27/2018	09/25/2018
VOLATILE ORGANIC COMPOUDS (VOCs) VIA USEPA METHOD 8260																	
Benzene		**5.0**	**28**	**120**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene		**1,000**	**NE**	**NE**	**9.0**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene		**2,000**	**NE**	**NE**	**5.7**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene		**700**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane		**1,500**	**NE**	**NE**	**180**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene (Cumene)		**450**	**NE**	**NE**	**21.8**	**5.7**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene		**NE**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene		**660**	**NE**	**NE**	**38.8**	**11.1**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene		**1,000**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene		**56**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (Total)		**10,000**	**NE**	**NE**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
All Other Analyzed VOCs		**Varies**	**Varies**	**Varies**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) VIA USEPA METHOD 8270 SIM																	
Acenaphthene		**530**	**NE**	**NE**	<1.1	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<1.0
Anthracene		**1,800**	**NE**	**NE**	<0.110	**0.14**	<0.100	<0.110	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Benzo(a)anthracene		**0.3**	**NE**	**NE**	**0.12**	**0.57** ^	<0.100	<0.110	<0.100	<0.100	<0.100	**0.13**	<0.100	<0.100	**0.37** ^	<0.100	<0.100
Benzo(a)pyrene		**0.2**	**NE**	**NE**	**0.12**	**0.66** ^	<0.100	**0.16**	<0.100	<0.100	<0.100	**0.15**	<0.100	<0.100	<0.100	<0.100	<0.100
Benzo(b)fluoranthene		**2.5**	**NE**	**NE**	**0.27**	**1.3**	**0.17**	**0.31**	<0.100	<0.100	<0.100	**0.24**	<0.100	<0.100	<0.100	<0.100	<0.100
Benzo(g,h,i)perylene		**NE**	**NE**	**NE**	**0.14**	**0.62**	<0.100	**0.20**	<0.100	<0.100	<0.100	**0.10**	<0.100	<0.100	<0.100	<0.100	<0.100
Benzo(k)fluoranthene		**25**	**NE**	**NE**	**0.12**	**0.60**	<0.100	**0.13**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chrysene		**250**	**NE**	**NE**	<0.550	**0.93**	<0.500	<0.560	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**0.50**	<0.500	<0.500
Dibenz(a,h)anthracene		**0.25**	**NE**	**NE**	<0.110	**0.11**	<0.100	<0.110	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Fluoranthene		**800**	**NE**	**NE**	<1.1	**2.3**	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene		**290**	**NE**	**NE**	<1.1	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0
Indeno(1,2,3-cd)pyrene		**2.5**	**NE**	**NE**	<0.110	**0.44**	<0.100	**0.15**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
1-Methylnaphthalene		**11**	**NE**	**NE**	**2.4**	**9.2**	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Methylnaphthalene		**36**	**NE**	**NE**	**3.9**	**12.2**	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene		**1.7**	**110**	**460**	**1.9** ^	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0
Phenanthrene		**NE**	**NE**	**NE**	<1.1	**1.6**	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0
Pyrene		**120**	**NE**	**NE**	<1.1	**2.1**	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
All Other Analyzed PAHs		**Varies**	**Varies**	**Varies**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
LEAD VIA USEPA METHOD 6010																	
Lead, dissolved		**15**	**NE**	**NE**	<10.0	<10.0	<10.0	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations & Notes

IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide
E = Reporting limit (RL) exceeds closure level due to dilution and/or analytical method limitations.
E-flags were evaluated to the Method Detection Limit, where possible.
NE = Not Established; NA = Not Analyzed; BRL = Below Laboratory Reporting Limits
SLs = Screening Levels; COM/IND = Commercial/Industrial
All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).
All IDEM Screening Levels are based on the RCG Table A-6: Screening Levels with updates.

The following denote the symbol and color of screening level exceedances:

^ = At or Above IDEM RCG 2018 Residential Tap Water SLs
* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)
** = At or Above IDEM RCG 2018 Commercial/Industrial VIGWSLs

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA
INDIANA UNIVERSITY HEALTH BLOOMINGTON HOSPITAL CAMPUS

August Mack ENVIRONMENTAL	Sample Description:	IDEM RCG 2018 RESIDENTIAL TAP WATER SLs (^)	IDEM RCG 2018 RESIDENTIAL VIGWSLs (*)	IDEM RCG 2018 COM/IND VIGWSLs (**)	Phase II Subsurface Investigation: Task 1 Parcel B (Cont.)							Phase II Subsurface Investigation: Task 2 Parcel B				
	Sample ID (Depth - ft.):				SB-16-GW (6-11)	SB-17-GW (2-12)	SB-18-GW (1-11)	SB-19-GW (0-9)	SB-20-GW (0-10)	SB-21-GW (0-9)	SB-22-GW (4-14)	SB-25-GW (2-12)	SB-26-GW (2-12)	SB-28-GW (2-12)	SB-29-GW (4-9)	SB-30-GW (2-12)
	Sample Date:				09/25/2018	09/25/2018	09/27/2018	09/27/2018	09/26/2018	09/27/2018	09/26/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018
VOLATILE ORGANIC COMPOUDS (VOCs) VIA USEPA METHOD 8260																
Benzene		**5.0**	**28**	**120**	<5.0	<5.0	<5.0	<5.0	**105** *;^	<5.0	<11.0 E	<4.6	**248** **,^	**580** **,^	<4.6	**505** **,^
n-Butylbenzene		**1,000**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	**6.7**	<5.0	<100	**72.9**	<50.0	**173**	**221**	**453**
sec-Butylbenzene		**2,000**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	**5.7**	<5.0	<100	<50.0	<50.0	**108**	**185**	**547**
Ethylbenzene		**700**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	**5.2**	<5.0	<100	<50.0	**77.0**	<50.0	<50.0	<50.0
n-Hexane		**1,500**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	**18.4**	<5.0	<100	**101**	<50.0	**104**	**69.2**	**230**
Isopropylbenzene (Cumene)		**450**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	**22.6**	<5.0	<100	<50.0	<50.0	**173**	**226**	**630** ^
p-Isopropyltoluene		**NE**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50.0	<50.0	<50.0	<50.0	**54.1**
n-Propylbenzene		**660**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	**29.5**	<5.0	<100	**143**	**88.2**	**422**	**471**	**1,180** ^
Toluene		**1,000**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	**5.6**	<5.0	<100	<50.0	<50.0	<50.0	<50.0	**53.9**
1,2,4-Trimethylbenzene		**56**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<11.4	<50.0	**85.2** ^	<50.0	<50.0	<50.0
Xylene (Total)		**10,000**	**NE**	**NE**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<200	<100	<100	<100	<100	**127**
All Other Analyzed VOCs		**Varies**	**Varies**	**Varies**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) VIA USEPA METHOD 8270 SIM																
Acenaphthene		**530**	**NE**	**NE**	<1.0	<1.1	<1.0	<1.0	**1.2**	<1.0	<1.0	**3.4**	**1.5**	**31.2**	**318**	**193**
Anthracene		**1,800**	**NE**	**NE**	<0.100	<0.110	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.12**	**10.7**	**185**	**107**
Benzo(a)anthracene		**0.3**	**NE**	**NE**	<0.100	**0.36** ^	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.42 E	<4.2 E	<2.4 E
Benzo(a)pyrene		**0.2**	**NE**	**NE**	<0.100	**0.22** ^	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.43 E	<4.3 E	<2.5 E
Benzo(b)fluoranthene		**2.5**	**NE**	**NE**	<0.100	**0.17**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<1.0	<3.8 E	<2.2
Benzo(g,h,i)perylene		**NE**	**NE**	**NE**	<0.100	**0.23**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<1.0	<10.0	<5.7
Benzo(k)fluoranthene		**25**	**NE**	**NE**	<0.100	<0.110	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<1.0	<10.0	<5.7
Chrysene		**250**	**NE**	**NE**	<0.500	<0.530	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<5.0	<50.0	<28.7
Dibenz(a,h)anthracene		**0.25**	**NE**	**NE**	<0.100	<0.110	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.32 E	<3.2 E	<1.8 E
Fluoranthene		**800**	**NE**	**NE**	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<100	<57.5
Fluorene		**290**	**NE**	**NE**	<1.0	<1.1	<1.0	<1.0	**1.4**	<1.0	<1.0	**3.9**	**1.6**	**33.5**	**337** ^	**214**
Indeno(1,2,3-cd)pyrene		**2.5**	**NE**	**NE**	<0.100	<0.110	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<1.0	<3.1 E	<1.8
1-Methylnaphthalene		**11**	**NE**	**NE**	<1.0	<1.1	<1.0	**4.6**	**27.7** ^	<1.0	**13.9** ^	**63.7** ^	**37.7** ^	**356** ^	**2,560** ^	**1,750** ^
2-Methylnaphthalene		**36**	**NE**	**NE**	<1.0	<1.1	<1.0	<1.0	**30.5**	<1.0	**4.5**	**81.9** ^	**56.7** ^	**402** ^	**2,780** ^	**2,360** ^
Naphthalene		**1.7**	**110**	**460**	<1.0	<1.1	<1.0	<1.0	**1.4**	<1.0	**2.1** ^	<1.0	**5.0** ^	<0.53	<5.3 E	<3.0 E
Phenanthrene		**NE**	**NE**	**NE**	<1.0	<1.1	<1.0	<1.0	**1.3**	<1.0	<1.0	**7.3**	**1.3**	**68.6**	**964**	**627**
Pyrene		**120**	**NE**	**NE**	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<100	<57.5
All Other Analyzed PAHs		**Varies**	**Varies**	**Varies**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
LEAD VIA USEPA METHOD 6010																
Lead, dissolved		**15**	**NE**	**NE**	NA	NA	NA	NA	NA	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0

Abbreviations & Notes

IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide
E = Reporting limit (RL) exceeds closure level due to dilution and/or analytical method limitations.
E-flags were evaluated to the Method Detection Limit, where possible.
NE = Not Established; NA = Not Analyzed; BRL = Below Laboratory Reporting Limits
SLs = Screening Levels; COM/IND = Commercial/Industrial
All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).
All IDEM Screening Levels are based on the RCG Table A-6: Screening Levels with updates.

The following denote the symbol and color of screening level exceedances:

^ = At or Above IDEM RCG 2018 Residential Tap Water SLs
* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)
** = At or Above IDEM RCG 2018 Commercial/Industrial VIGWSLs

ATTACHMENT A

Soil Boring Logs

August Mack ENVIRONMENTAL

SB-1

Project Number:	JS1901.740	Date Drilled:	9/24/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN, Parcel A	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY GRAVEL	Tan, coarse grained, medium dense, well graded, damp		11.1			
	SILTY CLAY	Reddish-brown, high plasticity, medium stiff, damp	50				
2	SILTY GRAVEL	Brown, coarse grained, medium dense, well graded, damp					
3		Black		45.3			
		Black, low plasticity, stiff, damp					
		Brown, high plasticity, soft					
4		Medium plasticity, very soft					
5				72.8			
6	SILTY CLAY		35				Odor at 4-10 ft
7		Black, some sand		339.2			Soil sample SB-1 - 6-8 collected at 1615
		Brown					
8		High plasticity, medium stiff					Groundwater sample SB-1-GW-5-10 collected at 1600
9		Medium plasticity, very soft, moist	100	over 15,000			
10	CLAYEY WEATHERED BEDROCK	Tan and black, saturated					End of boring at 10'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled:	9/24/2018
	Client Name: Ice Miller, LLP	Personnel:	K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller:	B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License:	1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcle A	GW Sample Method:	Check Valve
SB-2	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	**ASPHALT**		25	N/A			
1							
2	**NO RECOVERY**		0	N/A			
3							
4	**SILTY CLAY**	Reddish-brown, high plasticity, medium stiff, damp, some sand	100	1,250			Soil sample SB-2-4-6 collected at 1715 Odor at 4-8.5 ft
5		No sand, mottling					
6		Medium plasticity, stiff					Groundwater sample SB-2-GW-3.5-8.5 collected at 1835
7		High plasticity, moist		393.5			
8		Brown, low plasticity, very soft, saturated	25	230.5			
							End of boring (bedrock) at 8.5'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled:	9/24/2018
	Client Name: Ice Miller, LLP	Personnel:	K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller:	B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License:	1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel A	GW Sample Method:	Check Valve
SB-3	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY GRAVEL	Tan, coarse grained, loose, well graded, damp, some sand		0.8			
2	SILTY CLAY	Brown, high plasticity, stiff, damp, some sand, mottling	60				
	SILTY GRAVEL	Black, coarse grained, loose, well graded, damp, some sand		0.5			
3	GRAVELLY SAND	Gray and black, coarse grained, medium dense, well graded, damp					
4	SILTY CLAY	Reddish-brown, high plasticity, medium stiff, damp, some sand					
5		Brown, medium plasticity, soft		0.8			Soil sample SB-3-4-6 collected at 1840
6		Wet	50				
7		High plasticity, medium stiff, moist		0.8			Groundwater sample SB-3-GW-5-10 collected at 1825
8		Stiff, mottling					
9			25	0.6			
10							End of boring (bedrock) at 10'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-4

Project Number:	JS1901.740	Date Drilled:	9/24/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel A	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY GRAVEL	Tan, coarse grained, loose, well graded, damp, some sand		0.8			
2	SILTY CLAY	Red, high plasticity, medium stiff, damp, mottling	50				
3		Brown, soft, some sand		1.4			Soil sample SB-4 - 2-4 collected at 1820
4		Medium plasticity, no sand					
5				0.8			
6		Reddish-brown, low plasticity, very soft, wet	75				
7		High plasticity, medium stiff, damp		0.7			
8		Medium plasticity, stiff, some sand					
9			100	0.7			Groundwater sample SB-4-GW-6-11 collected at 1725
10		Low plasticity, soft, wet					
11	CLAYEY WEATHERED BEDROCK	Tan, saturated		0.7			End of boring at 11'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-5

Project Number:	JS1901.740	Date Drilled:	9/27/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	IU Health Bloomington Hospital Campus A-D	GW Sample Method:	N/A
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Evaluation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	GRAVELLY SILT	Tan, non-plastic, medium dense, damp, some sand		2.3			
2			15				
3	SILTY CLAY	Dark brown, medium plasticity, medium stiff, damp, some gravel and sand, mottling		2.8			Soil sample SB-5-2-4 collected at 1800
4							
5		Low plasticity		2.5			
6			15				
7	SANDY SILT	Tan, non-plastic, medium dense, moist, some gravel Saturated		2.4			
8	SILTY CLAY	Brown, medium plasticity, soft, moist, some sand					
9		High plasticity, medium stiff, mottling	100	1.5			Soil sample SB-5-8-10 collected at 1810
10		Non-plastic, soft, saturated					End of boring (bedrock) at 10'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-6

Project Number:	JS1901.740	Date Drilled:	9/27/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Evaluation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	GRAVELLY SILT	Tan, non-plastic, medium stiff, damp, some sand		2.6			
2	SILTY CLAY	Orange, high plasticity, medium stiff, damp, some gravel and sand, mottling	50				
3		Stiff Brown, low plasticity, medium stiff		3.3			
4	SILTY GRAVEL	Tan, coarse grained, medium dense, well graded, dry Damp	50	4.7			Soil sample SB-6 - 4-6 collected at 1650
5		Dry					
6	SILTY SAND	Black, medium grained, medium dense, well graded, damp, some gravel	30				
7		Tan, dry Brown, damp		3.2			
8		Saturated					
9	SILTY CLAY	Brown, low plasticity, soft, saturated, some sand	50	3.7			Groundwater sample SB-6-GW-4-14 collected at 1640
10		Orange-brown, medium plasticity, wet					
11		High plasticity, medium stiff, damp, some gravel, mottling Orange		3.3			
12			50				
13		No mottling	100	3.2			
14		Non-plastic, soft, saturated					End of boring (bedrock) at 14'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

	Project Number: JS1901.740	Date Drilled:	9/27/2018
	Client Name: Ice Miller, LLP	Personnel:	K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller:	B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License:	1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	N/A
SB-7	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure 1	Surface Evaluation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY CLAY	Dark brown, medium plasticity, stiff, damp, some sand and gravel, mottling		3.3			
2			70				
3		High platsicity, medium stiff		2.7			
3	SILTY SAND	Tan, medium grained, loose, well graded, damp, some gravel					
4		Black					
4	SILTY CLAY	Brown, medium plasticity, medium stiff, damp, some sand and gravel, mottling	70				
5		No mottling		3.2			
5		Soft					
6			60				
7		Gray-brown, low plasticity, no sand and gravel		4.2			
7		High platsicity, medium stiff					
8		Brown	60				
9		Medium plasticity		65.1			Soil sample SB-7 - 8-10 collected at 1600
10			100				
11		High plasticity, stiff		145.2			
11		No mottling					
12							
13			100	262.7			Soil sample SB-7-2-14 collected at 1605 Odor at 12-14 ft
13		Medium stiff					
14		Dark brown, low plasticity, soft, saturated, some sand					End of boring (bedrock) at 14'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled: 9/27/2018
	Client Name: Ice Miller, LLP	Personnel: K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller: B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License: 1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method: Check Valve
SB-8	UTM Northing*: N/A	UTM Easting*: N/A
	Boring Location: See Figure 1	Surface Elevation*: N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	GRAVELLY SILT	Tan, non-plastic, medium stiff, damp, some sand		3.6			
2	SILTY CLAY	Dark brown, low plasticity, stiff, damp, some sand and gravel, mottling	30				
3		No sand and gravel, no mottling		4.1			Soil sample SB-8 - 2-4 collected at 1450
4		Orange-brown, medium plasticity					
5		Oragne, high plasticity, medium stiff, some sand and gravel	30	3.5			
6		Reddish-orange, stiff, mottling					
7			100	3.1			
8		No mottling					
9			100	3.2			Groundwater sample SB-8-GW-6-11 collected at 1815
10		Medium stiff, wet	75				
11	CLAYEY WEATHERED BEDROCK	Non-plastic, soft, saturated Tan, saturated		3.2			End of boring at 11'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-9

Project Number:	JS1901.740	Date Drilled:	9/27/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY GRAVEL	Tan, coarse grained, very loose, well graded, dry, some sand	20	2.3			
2							
3				3.6			
4		Loose, damp	20				
5		Brown		4.4			Soil sample SB-9 - 4-6 collected at 1100
6	SANDY GRAVEL	Black & dark red, coarse grained, very loose, well graded, moist, some silt	15				
7	SILTY CLAY	Orange-brown, medium plasticity, soft, moist, some sand and gravel, mottling		3.6			Groundwater sample SB-9-GW-2-12 collected at 1050
8		Medium stiff	15				
9		High plasticity		5.0			
10		No mottling	30				
11				4.4			
12	CLAYEY WEATHERED BEDROCK	Low plasticity, soft, wet Tan, saturated					End of boring at 12'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack Environmental	Project Number: JS1901.740	Date Drilled: 9/25/2018
	Client Name: Ice Miller, LLP	Personnel: K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller: B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License: 1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method: Check Valve
SB-10	UTM Northing*: N/A	UTM Easting*: N/A
	Boring Location: See Figure 1	Surface Evaluation*: N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	CLAYEY GRAVEL	Tan, coarse grained, medium dense, well graded, damp, some sand		0.7			
2	SILTY CLAY	Dark brown, high plasticity, medium stiff, damp, some gravel	75				
3				1.1			
4		Mottling	75				
5				0.6			Intermitent sand and gravel seams at 4-5.5 ft
6		Brown	30				
7	SILTY SAND	Orange, medium grained, medium dense, poorly graded, damp, some gravel		1.7			
8		Tan, coarse grained, well graded					
9	SILTY CLAY	Brown, high plasticity, soft, damp	75	2.0			Groundwater sample SB-10-GW-4-14 collected at 1215
10		Reddish-brown, medium stiff					
11		Stiff, motting		2.1			Soil sample SB-10-10-12 collected at 1210
12		No mottling					
13			75	0.7			
14	CLAYEY WEATHERED BEDROCK	Medium stiff, wet Reddish-brown, saturated	100				End of boring at 14'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled: 9/25/2018
	Client Name: Ice Miller, LLP	Personnel: K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller: B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License: 1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method: Check Valve
SB-11	UTM Northing*: N/A	UTM Easting*: N/A
	Boring Location: See Figure 1	Surface Evaluation*: N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY CLAY	Dark brown, high plasticity, medium stiff, damp, some gravel	60	1.4			
2		Medium plasticity		1.4			Gravel seam at 2 ft
3		Soft, wet					
4	GRAVELLY SAND	Black, coarse grained, medium dense, well graded, damp					
5	SILTY SAND	Orange, fine grained, medium dense, porrly graded, damp, some gravel	60	0.8			Groundwater sample SB-11-GW-2-12 collected at 1235
6		Grayish-tan, medium grained, well graded					
7		Tan	30	2.9			Soil sample SB-11 - 6-8 collected at 1220
8	SILTY CLAY	Reddish-brown, medium plasticity, soft, moist	75	2.2			
9		High plasticity, medium stiff					
10							
11		Orange-red, stiff, trace gravel		0.7			
12							End of boring (bedrock) at 12'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-12

Project Number:	JS1901.740	Date Drilled:	9/25/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0		**ASPHALT**					
1		**GRAVELLY CLAY** — Orange-brown, non-plastic, medium stiff, damp, some sand		0.4			
		Brown, low plasticity,					
2		Black, non-plastic, soft, dry, some sand	30				
		Medium stiff, damp		0.5			
3		**GRAVELLY SILT** — Brown					
		Light tan, soft, dry					
4		Medium stiff, damp	30				
		Reddish-brown, medium plasticity, soft, damp		0.5			Groundwater sample SB-12-GW-0-10 collected at 1600
5		Brown					
6		Low plasticity, wet	70				
		SILTY CLAY — Moist		0.6			Soil sample SB-12 - 6-8 collected at 1635
7							
8		Reddish-brown, medium plasticity, medium stiff	70				
		High plasticity, some sand and gravel		0.6			
9			100				
10		Wet					End of boring (bedrock) at 10'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-13

Project Number:	JS1901.740	Date Drilled:	9/27/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY GRAVEL	Tan, coarse grained, very loose, well graded, dry, some sand	60	1.9			
2		Loose, damp		3.1			Soil sample SB-13 - 2-4 collected at 1245
3	SANDY SILT	Brown, non-plastic, stiff, moist, some gravel					
4	SILTY CLAY	Orange-brown, high plasticity, medium stiff, damp, trace gravel and sand	60	2.5			
5		Mottling					
6			80	2.7			
7							
8			80	3.1			
9							
10			100	2.9			Groundwater sample SB-13-GW-5-15 collected at 1215
11		Soft, wet, no sand and gravel, no mottling					
12				21.3			
13			100				
14		Mottling					
15	CLAYEY WEATHERED BEDROCK	Non-plastic, some sand Dark brown, saturated		80.6			Odor at 14.5-15 ft End of boring at 15'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack Environmental	Project Number: JS1901.740	Date Drilled: 9/27/2018
	Client Name: Ice Miller, LLP	Personnel: K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller: B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License: 1870 WD
	Site Address: 601 W. 2nd St., Bloominton, IN Parcel B	GW Sample Method: Check Valve
SB-14	UTM Northing*: N/A	UTM Easting*: N/A
	Boring Location: See Figure 1	Surface Elevation*: N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	GRAVEL	tan, coarse grained, well graded, dry, some silt	25	2.6			
2							
3	GRAVELLY SILT	Tan, non-plastic, soft, saturated, some sand		3.2			
4	SILTY SAND	Brown & black, medium grained, medium dense, well graded, saturated, some gravel					
5	SILTY CLAY	Dark brown, medium plasticity, soft, wet, some sand and gravel	25	12.3			Soil sample SB-14 - 4-6 collected at 1350
6		Orange-brown, high plasticity, medium stiff, damp	75	6.6			
7		Mottling					
8			75	4.8			
9		Stiff					
10			100	3.8			Groundwater sample SB-14-GW-6-16 collected at 1330
11		Orange-red, medium stiff					
12				4.1			
13							
14		Orange-brown	100				
15	CLAYEY WEATHERED BEDROCK	Low plasticity, soft, saturated Black, saturated Grayish-brown		146.5			Odor at 14.5-16 ft
16		Tan					End of boring at 16'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-15

Project Number:	JS1901.740	Date Drilled:	9/25/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 w. 2nd St., Bloomingotn, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	TOPSOIL						
1	SILTY SAND	Brown, medium grained, loose, well graded, damp, some gravel		0.5			
	GRAVELLY CLAY	Brown, medium plasticity, stiff, damp, some sand, mottling					
2	SILTY SAND	Brown, medium grained, loose, well graded, damp, some gravel	60				
		Black, coarse grained, medium dense		0.5			Soil sample SB-15 - 2-4 collected at 1550
3	SILTY CLAY	Reddish-brown, medium plasticity, stiff, damp, mottling					
4	SILT	Light tan, non-plastic, medium stiff, damp	60				
5		Low plasticity, very soft, saturated		0.4			Goundwater sample SB-15-GW-0-10 collected at 1505
6		Grayish-brown, soft, wet	75				
7		Brown, moist		0.7			
8	SILTY CLAY	Reddish-brown, high plasticity, medium stiff, damp	75				
9				0.5			
10	CLAYEY WEATHERED BEDROCK	Tan, saturated	100				End of boring at 10'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-16

Project Number:	JS1901.740	Date Drilled:	9/25/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	SILTY GRAVEL	Tan, coarse grained, loose, well graded, damp, some sand					
1	GRAVELLY SILT	Brown, non-plastic, medium stiff, damp, some sand		2.7			
2	SILTY SAND	Black, some gravel, coarse grained, medium dense, well graded, damp, some gravel	60				
3				0.8			
4		Orange-black					
5		Dark brown Saturated	60	0.5			
6	SILTY CLAY	Brown, high plasticity, medium stiff, damp, mottling	80				
7				0.9			Soil sample SB-16 - 6-8 collected at 1541
8		Low plasticity, soft, wet, no mottling	80				Groundwater sample SB-16-GW-6-11 collected at 1435
9				0.6			
10		Trace sand, high plasticity, stiff, damp, trace sand	100				
11	CLAYEY WEATHERED BEDROCK	Tan, saturated		0.8			End of boring at 11'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-17

Project Number:	JS1901.740	Date Drilled:	9/25/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	TOPSOIL						
1	SILTY CLAY	Brown, medium plasticity, soft, damp, some gravel and sand		0.4			
2		Reddish-brown, high plasticity, medium stiff, no gravel, mottling	40				
2		Soft, moist		0.4			
3	SILTY SAND	Blackish-dark brown, coarse grained, loose, well graded, saturated, few gravel					
3	SILTY CLAY	Brown, medium plasticity, medium stiff, damp					Groundwater sample SB-17-GW-2-12 collected at 1400
4		Soft, mottling	40				
5		Medium stiff		0.6			
6		Soft, no mottling	75				
7		Low plasticity, wet		0.7			Soil sample SB-17 - 6-8 collected at 1415
8			75				
9		Orange-brown, medium plasticity, medium stiff, some gravel		0.4			
10		High plasticity, stiff, moist	100				
11				17.4			Odor at 11-12 ft
12		Brown, medium plasticity, soft, wet, some sand					End of boring (bedrock) at 12'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-18

Project Number:	JS1901.740	Date Drilled:	9/26/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	SANDY GRAVEL	Tan, coarse grained, very loose, well graded, damp, some silt	20	3.2			
1		Loose					
2		Medium dense poorly graded		2.6			
3		Brown, loose, well graded					
4		Black	20	2.9			Groundwater sample SB-18-GW-1-11 collected at 1810 Soil sample SB-18 - 6-8 collected at 1820
5	SILTY CLAY	Reddish-brown, high plasticity, stiff, damp, some gravel and sand, mottling					
6		Orange	100	3.8			
7							
8		Orange-brown, moist, no mottling		2.4			
9			100				
10		Medium stiff, wet		3.7			
11	CLAYEY WEATHERED BEDROCK	Low plasticity, soft, saturated Tan, saturated					End of boring at 11'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-19

Project Number:	JS1901.740	Date Drilled:	9/26/18 & 9/27/18
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	SANDY GRAVEL	Tan, coarse grained, very loose, well graded, damp, some silt					
1	SAND	Brown, coarse grained, loose, well graded, moist, some gravel and silt		27.4			
2		Wet	40				
3	SANDY GRAVEL	Tan, coarse grained, loose, well graded, wet, some silt		29.4			Soil sample SB-19 - 2-4 collected at 1430 on 9/26/18
4		Medium dense, moist Wet					
5	SILTY CLAY	Dark brown, medium plasticity, medium stiff, moist, some gravel and sand, mottling	70	29.4			Groundwater sample SB-19-GW-0-9 collected at 935 on 9/27/18
6	GRAVELLY SILT	Soft, saturated Tan, non-plastic, soft, damp					
7	SILTY CLAY	Brown, high plasticity, medium stiff, damp, trace gravel and sand, mottling	30	42.9			
8			30	53.2			
9							End of boring at 9'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled:	9/26/2018
	Client Name: Ice Miller, LLP	Personnel:	K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller:	B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License:	1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
SB-20	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	SANDY GRAVEL	Tan, coarse grained, very loose, well graded, damp, some silt					
1	GRAVELLY SILT	Gray, non-plasticy, soft, damp		58.2			
		Tan, moist					
2	SILTY CLAY	Dark brown, low plasticity, stiff, damp, some gravel and sand, mottling	70				Odor at 2-4 ft
3				483.1			Soil sample SB-20 - 2-4 collected at 1535
4	GRAVELLY SAND	Dark brown, medium grained, loose, well graded, damp, some silt					
		Tan, dry	70				Odor at 4.5 ft
5		Black, moist		447.1			Groundwater sample SB-20-GW-0-10 collected at 1830
		Brown, high plasticity, medium stiff, moist					
6	SILTY CLAY	Stiff, mottling	80				
7				67.6			
8			80				
9				399.4			
		Black, low plasticity, soft, saturated, no mottling	100				Odor at 9-10 ft
10	BEDROCK	Tan, dry					End of boring at 10'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-21

Project Number:	JS1901.740	Date Drilled:	9/26/18 & 9/27/18
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SANDY GRAVEL	Tan, coarse grained, loose, well graded, damp, some silt		4.9			
2		Medium dense, moist	80				
3		Orange, high plasticity, medium stiff, damp, some gravel, mottling		4.9			Soil sample SB-21 - 2-4 collected at 1615 on 9/26/18
4		Gray, no gravel, no mottling					
5	SILTY CLAY	Orange, some gravel, mottling	80	4.3			Groundwater sample SB-21-GW-0-9 collected at 940 on 9/27/18
6		Wet					
7		Moist	50	4.5			
8		Low plasticity, soft, wet					Odor at 5-9 ft
9		Brown, no mottling	50	120.7			
		High plasticity, medium stiff, damp					End of boring (bedrock) at 9'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled:	9/26/2018
	Client Name: Ice Miller, LLP	Personnel:	K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller:	B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License:	1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel B	GW Sample Method:	Check Valve
SB-22	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY GRAVEL	Tan, coarse grained, loose, well graded, dry, some sand		0.4			
2	SILTY CLAY	Brown, low plasticity, medium stiff, damp, some sand and gravel, mottling	50				
3		Non-plastic, very stiff		0.5			
4			50				
5		Gray-brown, low plasticity, medium stiff, no sand and gravel		8.1			Sand seam at 5 ft
6			60				Slight odor at 5-9 ft
7		Black, medium plasticity, soft		8.8			
8			60				
9		Reddish-brown, high plasticity, medium stiff, some gravel and sand		141.9			Groundwater sample SB-22-GW-4-14 collected at 1725
10		Stiff, no mottling	100				
11				367.9			Soil sample SB-22 - 10-12 collected at 1840
12							
13		Low plasticity, soft, wet	100	107.8			Odor at 9-14 ft
14		Saturated					End of boring (bedrock) at 14'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled:	9/26/2018
	Client Name: Ice Miller, LLP	Personnel:	K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller:	B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License:	1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel C	GW Sample Method:	N/A
SB-23	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	ASPHALT						
1	SILTY CLAY	Dark brown, medium plasticity, medium stiff, damp, some gravel, mottling	100	45.7			
2							
3		No mottling Brown		52.4			Soil sample SB-23 - 2-4 collected at 1235
4							
5		Orange-brown Dark brown, soft, mottling	100	37.7			
6		Orange-brown, high plasticity, medium stiff, no gravel					
7				23.3			
8		Reddish-brown, soft, moist, some gravel					Intermittent rock fragments at 6-9 ft
9		Brown, medium plasticity	100	55.0			Soil sample SB-23 - 8-10 collected at 1240
10		Low plasticity, saturated					End of boring (refusal) at 10'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled:	9/26/2018
	Client Name: Ice Miller, LLP	Personnel:	K. Seymour
	Project Name: Phase II Subsurface Investigation	Driller:	B. Rutherford
	Drilling Method: Geoprobe Direct Push	Driller License:	1870 WD
	Site Address: 601 W. 2nd St., Bloomington, IN Parcel C	GW Sample Method:	N/A
SB-24	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	**ASPHALT**						
1	**SILTY GRAVEL**	Tan, coarse grained, loose, well graded, damp, some sand		4.0			
2		Moist	20				
3	**SILTY CLAY**	Reddish-brown, high plasticity, medium stiff, damp, trace gravel, mottling		3.9			
4			20				
5		No mottling		3.8			Soil sample SB-24 - 4-6 collected at 1130
6			75				
7		Orange, moist, mottling		2.9			
8		Damp	75				
9				3.1			
10			100				
11				3.0			
12							
13				2.6			
14			100				
15		Moist		2.9			
16							
17		No mottling		28.9			
18			100				
19				18.4			
20		Reddish-brown, medium plasticity, soft, wet, mottling	75				

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-24

Project Number:	JS1901.740	Date Drilled:	9/26/2018
Client Name:	Ice Miller, LLP	Personnel:	K. Seymour
Project Name:	Phase II Subsurface Investigation	Driller:	B. Rutherford
Drilling Method:	Geoprobe Direct Push	Driller License:	1870 WD
Site Address:	601 W. 2nd St., Bloomington, IN Parcel C	GW Sample Method:	N/A
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure 1	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
20	SILTY CLAY		75	25.9			
21		Low plasticity					
22		Red, medium stiff, moist, no mottling	60	27.2			Soil sample SB-24 - 22-24 collected at 1140
23		Orange					
24	CLAYEY WEATHERED BEDROCK	Tan, saturated					End of boring at 24'

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled:	11/15/2018
	Client Name: Ice Miller, LLP	Personnel:	R. Manavazhi
	Project Name: Phase II Subsurface Investigation	Driller:	J. Caulk
	Drilling Method: Geoprobe Direct Push	Driller License:	4193 WD
	Site Address: 601 W. 2nd St. Bloomington, IN Parcel B	GW Sample Method:	Check Valve
SB-25	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	SANDY GRAVEL	Tan, coarse grained, loose, well graded, damp	60	10.4			
1							
2		Grey		395.6			Soil sample SB-25-2-4 collected at 1421
3	SILTY CLAY	Black, medium plasticity, stiff, damp, trace sand					
4			70				
5		Mottling		68.7			Odor and staining from 4-6 ft
6		Brown, moist					
7				3.8			Groundwater sample SB-25-GW-2-12 collected at 1350
8							
9			80	1.4			
10		Medium stiff					
11				1.1			
12		Saturated					End of boring at 12 ft

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-26

Project Number:	JS1901.740	Date Drilled:	11/15/2018
Client Name:	Ice Miller, LLP	Personnel:	R. Manavazhi
Project Name:	Phase II Subsurface Investigation	Driller:	J. Caulk
Drilling Method:	Geoprobe Direct Push	Driller License:	4193 WD
Site Address:	601 W. 2nd St. Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	SANDY GRAVEL	Tan, coarse grained, loose, well graded, saturated	40	147.3			
1							
2							
3	SAND	Black, medium grained, loose, poorly graded, damp		378.0			Soil sample SB-26-2-4 collected at 1430
4		Light grey, trace gravel	95	130.6			Odor and staining from 4-5 ft
5	SILTY CLAY	Brown, medium plasticity, stiff, moist					
6				7.3			Groundwater sample SB-26-GW-2-12 collected at 1400
7							
8			100	6.2			
9							
10				5.8			
11		Saturated					
12							End of boring at 12 ft

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-27

Project Number:	JS1901.740	Date Drilled:	11/15/2018
Client Name:	Ice Miller, LLP	Personnel:	R. Manavazhi
Project Name:	Phase II Subsurface Investigation	Driller:	J. Caulk
Drilling Method:	Geoprobe Direct Push	Driller License:	4193 WD
Site Address:	601 W. 2nd St. Bloomington, IN Parcel B	GW Sample Method:	N/A
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	**SANDY GRAVEL**	Tan, coarse grained, loose, well graded, damp	50	73.7			
2	**SAND**	Black, medium grained, medium dense, poorly graded, damp		1,413.3		■	Soil sample SB-27-2-4 collected at 1440 Odor and staining from 3-4 ft
4	**SILTY CLAY**	Brown, medium plasticity, medium stiff, moist	60	943.7			Odor and staining from 5-6 ft
6				343.4		■	Soil sample SB-27-6-7 collected at 1445
7							End of boring (refusal) at 7 ft

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JS1901.740	Date Drilled:	11/15/2018
	Client Name: Ice Miller, LLP	Personnel:	R. Manavazhi
	Project Name: Phase II Subsurface Investigation	Driller:	J. Caulk
	Drilling Method: Geoprobe Direct Push	Driller License:	4193 WD
	Site Address: 601 W. 2nd St. Bloomington, IN Parcel B	GW Sample Method:	Check Valve
SB-28	UTM Northing*: N/A	UTM Easting*:	N/A
	Boring Location: See Figure	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	**SANDY GRAVEL**	Tan, coarse grained, loose, well graded, damp					
1				51.4			
2	**SAND**	Black, medium grained, loose, poorly graded, damp	60				Odor and staining from 1.5-2 ft
3				152.5			Soil sample SB-28-2-4 collected at 1455
4	**SILTY CLAY**	Brown, medium plasticity, medium stiff, moist					
5				76.2			Groundwater sample SB-28-GW-2-12 collected at 1406
6			90				Staining from 6-7.5 ft
7				296.4			Soil sample SB-28-6-8 collected at 1450
8							
9				120.9			Staining from 9-10 ft
10			60				
11				330.8			
12		Saturated					End of boring at 12 ft

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-29

Project Number:	JS1901.740	Date Drilled:	11/15/2018
Client Name:	Ice Miller, LLP	Personnel:	R. Manavazhi
Project Name:	Phase II Subsurface Investigation	Driller:	J. Caulk
Drilling Method:	Geoprobe Direct Push	Driller License:	4193 WD
Site Address:	601 W. 2nd St. Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0	**SANDY GRAVEL**	Tan, coarse grained, loose, well graded, saturated	60	20.5			
1							
2				243.2			Soil sample SB-29-2-4 collected at 1510
3	**SAND**	Black, medium grained, medium dense, poorly graded, damp					Odor and staining from 3-3.5 ft
4							
5	**SILTY CLAY**	Dark brown, medium plasticity, medium stiff, damp	50	39.9			Staining from 5-6 ft
6							
7				37.7			Groundwater sample SB-29-4-9 collected at 1410
8		Black, low plasticity, soft, saturated, some gravel and sand	10	248.6			Odor and staining from 7.5-8 ft
9							End of boring (bedrock) at 9 ft

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-30

Project Number:	JS1901.740	Date Drilled:	11/15/2018
Client Name:	Ice Miller, LLP	Personnel:	R. Manavazhi
Project Name:	Phase II Subsurface Investigation	Driller:	J. Caulk
Drilling Method:	Geoprobe Direct Push	Driller License:	4193 WD
Site Address:	601 W. 2nd St. Bloomington, IN Parcel B	GW Sample Method:	Check Valve
UTM Northing*:	N/A	UTM Easting*:	N/A
Boring Location:	See Figure	Surface Elevation*:	N/A

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	GW Sample Interval	Soil Sample Interval	Comments
0–2	SANDY GRAVEL	Tan, coarse grained, loose, well graded, damp	60	33.6			
2–3	SANDY SILT	Black, non-plastic, soft, damp, mottling		59.8			Odor and staining from 2-3.5 ft
3–4	SILTY CLAY	Brown, medium plastic, medium stiff, damp	40	317.2			Soil sample SB-30-4-6 collected at 1520
4–6	SILTY CLAY	Brown, medium plastic, medium stiff, damp		266.1			Groundwater sample SB-30-GW-2-12 collected at 1415
6–9	SILTY CLAY	Brown, medium plastic, medium stiff, damp	60	189.5			
9–10	SILTY CLAY	Saturated					
10–11	SILTY CLAY	Black		230.1			Odor and staining from 10-11 ft
11–12	CLAYEY WEATHERED BEDROCK	Tan, damp					
12							End of boring at 12 ft

* = UTM Northing, Easting, and Surface Elevation are estimated, unless specified in the report to have been surveyed.

ATTACHMENT B

Field Procedures

SOIL & GROUNDWATER SAMPLING PROCEDURES

Soil Sampling Activities

Soil borings were advanced using a Geoprobe® Direct Push Dual-Tube Sampling System (Geoprobe®). Soil borings were advanced to the desired depth required for the investigation. Soil samples were collected continuously from each boring location by using the dual-tube tooling, which includes a disposable acetate sample liner. The sampler was recovered with a 4-foot soil sample collected within an acetate liner inside the barrel. A new acetate liner was used for each sample collected. All reusable equipment that contacted the soil samples was decontaminated with a Liquinox® solution and rinsed with water between each sample collection.

Upon retrieving the 4-foot sections of soil, the samples were divided into 2-foot sections and inspected in the field for evidence of contamination (odors, staining, etc.). Each sample was also screened in the field by headspace analysis using a MiniRae® photoionization detector (PID). The 2-foot section that exhibited the highest potential for contamination was sampled and transferred to clean, labeled sample containers (provided by the laboratory) and placed on ice in a cooler for preservation in the field. All samples were submitted to Pace Analytical Services, LLC (Pace) for laboratory analysis of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and/or total lead or Resource Conservation and Recovery Act (RCRA) 8 Metals using standard United States Environmental Protection Agency (U.S. EPA) SW-846 analytical methods.

Groundwater Sampling Activities

Temporary 1-inch groundwater sampling piezometers were installed at each Geoprobe® boring location to allow groundwater to collect for sampling purposes. Groundwater samples were collected from the temporary groundwater sampling points using a check valve and dedicated tubing. The groundwater samples were transferred to clean, labeled sample containers (provided by the laboratory) and placed on ice in a cooler for preservation in the field. Groundwater samples were submitted to Pace for laboratory analysis of VOCs, PAHs, and/or dissolved lead (lab filtered) using standard U.S. EPA SW-846 analytical methods.

Site Restoration Activities

Upon completion of the field sampling activities, the boreholes were abandoned by manually pouring soil cuttings and bentonite into the boring. Study site restoration was completed by patching the surface materials to match pre-investigation conditions.

ATTACHMENT C

Laboratory Results

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 05, 2018

Tyler Zschiedrich
August Mack Environmental Consultants
1302 N Meridian Street
Suite 300
Indianapolis, IN 46202

RE: Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Dear Tyler Zschiedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 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,

Kelly Jones
kelly.jones@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Andy Tennyson, August Mack Environmental Consultants

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2017-124
Texas Certification #: T104704355-18-12
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50206410001	**SB-10-10-12**	Solid	09/25/18 12:10	09/26/18 12:10
50206410002	**SB-11-6-8**	Solid	09/25/18 12:20	09/26/18 12:10
50206410003	**SB-12-6-8**	Solid	09/25/18 16:35	09/26/18 12:10
50206410004	**SB-15-2-4**	Solid	09/25/18 15:50	09/26/18 12:10
50206410005	**SB-16-6-8**	Solid	09/25/18 15:41	09/26/18 12:10
50206410006	**SB-17-6-8**	Solid	09/25/18 14:15	09/26/18 12:10
50206410007	**SB-10-GW-4-14**	Water	09/25/18 12:15	09/26/18 12:10
50206410008	**SB-11-GW-2-12**	Water	09/25/18 12:35	09/26/18 12:10
50206410009	**SB-12-GW-0-10**	Water	09/25/18 16:00	09/26/18 12:10
50206410010	**SB-15-GW-0-10**	Water	09/25/18 15:05	09/26/18 12:10
50206410011	**SB-16-GW-6-11**	Water	09/25/18 14:35	09/26/18 12:10
50206410012	**SB-17-GW-2-12**	Water	09/25/18 14:00	09/26/18 12:10

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50206410001	**SB-10-10-12**	EPA 6010	KJE	7	PASI-I
		EPA 7471	AAG	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206410002	**SB-11-6-8**	EPA 6010	KJE	7	PASI-I
		EPA 7471	AAG	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206410003	**SB-12-6-8**	EPA 6010	KJE	7	PASI-I
		EPA 7471	AAG	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206410004	**SB-15-2-4**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206410005	**SB-16-6-8**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206410006	**SB-17-6-8**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206410007	**SB-10-GW-4-14**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206410008	**SB-11-GW-2-12**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206410009	**SB-12-GW-0-10**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206410010	**SB-15-GW-0-10**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206410011	**SB-16-GW-6-11**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206410012	**SB-17-GW-2-12**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206410001	**SB-10-10-12**					
EPA 6010	Arsenic	13.4	mg/kg	1.2	09/29/18 11:14	
EPA 6010	Barium	198	mg/kg	1.2	09/29/18 11:14	
EPA 6010	Cadmium	1.3	mg/kg	0.59	09/29/18 11:14	
EPA 6010	Chromium	48.3	mg/kg	1.2	09/29/18 11:14	
EPA 6010	Lead	23.5	mg/kg	1.2	09/29/18 11:14	
SM 2540G	Percent Moisture	23.1	%	0.10	09/28/18 12:00	
50206410002	**SB-11-6-8**					
EPA 6010	Arsenic	1.5	mg/kg	1.0	09/29/18 11:16	
EPA 6010	Barium	3.7	mg/kg	1.0	09/29/18 11:16	
EPA 6010	Chromium	4.5	mg/kg	1.0	09/29/18 11:16	
EPA 6010	Lead	2.7	mg/kg	1.0	09/29/18 11:16	
SM 2540G	Percent Moisture	10.2	%	0.10	09/28/18 12:00	
50206410003	**SB-12-6-8**					
EPA 6010	Arsenic	5.5	mg/kg	1.1	09/29/18 11:18	
EPA 6010	Barium	152	mg/kg	1.1	09/29/18 11:18	
EPA 6010	Cadmium	0.67	mg/kg	0.56	09/29/18 11:18	
EPA 6010	Chromium	12.7	mg/kg	1.1	09/29/18 11:18	
EPA 6010	Lead	13.8	mg/kg	1.1	09/29/18 11:18	
EPA 6010	Selenium	2.0	mg/kg	1.1	09/29/18 11:18	
SM 2540G	Percent Moisture	25.8	%	0.10	09/28/18 12:00	
50206410004	**SB-15-2-4**					
EPA 8270 by SIM	Benzo(a)anthracene	49.9	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	Benzo(a)pyrene	35.1	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	Benzo(b)fluoranthene	43.7	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	Benzo(g,h,i)perylene	32.8	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	Benzo(k)fluoranthene	42.6	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	Chrysene	84.6	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	Fluoranthene	59.9	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	1-Methylnaphthalene	96.3	ug/kg	29.5	10/02/18 21:04	N2
EPA 8270 by SIM	2-Methylnaphthalene	107	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	Naphthalene	65.9	ug/kg	29.5	10/02/18 21:04	ED
EPA 8270 by SIM	Phenanthrene	134	ug/kg	29.5	10/02/18 21:04	
EPA 8270 by SIM	Pyrene	51.7	ug/kg	29.5	10/02/18 21:04	
SM 2540G	Percent Moisture	16.0	%	0.10	09/28/18 12:37	
50206410005	**SB-16-6-8**					
EPA 8270 by SIM	Fluoranthene	6.5	ug/kg	6.3	10/02/18 21:20	
SM 2540G	Percent Moisture	21.7	%	0.10	09/28/18 12:37	
50206410006	**SB-17-6-8**					
SM 2540G	Percent Moisture	20.6	%	0.10	09/28/18 12:37	
50206410007	**SB-10-GW-4-14**					
EPA 8270 by SIM LVE	Benzo(a)anthracene	0.13	ug/L	0.10	10/03/18 12:30	
EPA 8270 by SIM LVE	Benzo(a)pyrene	0.15	ug/L	0.10	10/03/18 12:30	
EPA 8270 by SIM LVE	Benzo(b)fluoranthene	0.24	ug/L	0.10	10/03/18 12:30	
EPA 8270 by SIM LVE	Benzo(g,h,i)perylene	0.10	ug/L	0.10	10/03/18 12:30	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206410012	**SB-17-GW-2-12**					
EPA 8270 by SIM LVE	Benzo(a)anthracene	0.36	ug/L	0.11	10/03/18 10:54	
EPA 8270 by SIM LVE	Benzo(a)pyrene	0.22	ug/L	0.11	10/03/18 10:54	
EPA 8270 by SIM LVE	Benzo(b)fluoranthene	0.17	ug/L	0.11	10/03/18 10:54	
EPA 8270 by SIM LVE	Benzo(g,h,i)perylene	0.23	ug/L	0.11	10/03/18 10:54	
EPA 8270 by SIM LVE	Pyrene	1.4	ug/L	1.1	10/03/18 10:54	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-10-10-12 **Lab ID: 50206410001** Collected: 09/25/18 12:10 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**13.4**	mg/kg	1.2	1	09/28/18 12:35	09/29/18 11:14	7440-38-2	
Barium	**198**	mg/kg	1.2	1	09/28/18 12:35	09/29/18 11:14	7440-39-3	
Cadmium	**1.3**	mg/kg	0.59	1	09/28/18 12:35	09/29/18 11:14	7440-43-9	
Chromium	**48.3**	mg/kg	1.2	1	09/28/18 12:35	09/29/18 11:14	7440-47-3	
Lead	**23.5**	mg/kg	1.2	1	09/28/18 12:35	09/29/18 11:14	7439-92-1	
Selenium	ND	mg/kg	1.2	1	09/28/18 12:35	09/29/18 11:14	7782-49-2	
Silver	ND	mg/kg	0.59	1	09/28/18 12:35	09/29/18 11:14	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.27	1	10/02/18 12:18	10/02/18 17:01	7439-97-6	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	83-32-9	
Acenaphthylene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	208-96-8	
Anthracene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	207-08-9	
Chrysene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	53-70-3	
Fluoranthene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	206-44-0	
Fluorene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	91-57-6	
Naphthalene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	91-20-3	
Phenanthrene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	85-01-8	
Pyrene	ND	ug/kg	6.5	1	10/02/18 10:10	10/02/18 20:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67	%.	40-107	1	10/02/18 10:10	10/02/18 20:15	321-60-8	
p-Terphenyl-d14 (S)	64	%.	35-115	1	10/02/18 10:10	10/02/18 20:15	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	116	1		10/04/18 16:10	67-64-1	M5
Acrolein	ND	ug/kg	116	1		10/04/18 16:10	107-02-8	M5
Acrylonitrile	ND	ug/kg	116	1		10/04/18 16:10	107-13-1	M5
Benzene	ND	ug/kg	5.8	1		10/04/18 16:10	71-43-2	M5
Bromobenzene	ND	ug/kg	5.8	1		10/04/18 16:10	108-86-1	M5
Bromochloromethane	ND	ug/kg	5.8	1		10/04/18 16:10	74-97-5	M5
Bromodichloromethane	ND	ug/kg	5.8	1		10/04/18 16:10	75-27-4	M5
Bromoform	ND	ug/kg	5.8	1		10/04/18 16:10	75-25-2	M5
Bromomethane	ND	ug/kg	5.8	1		10/04/18 16:10	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	28.9	1		10/04/18 16:10	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-10-10-12 **Lab ID: 50206410001** Collected: 09/25/18 12:10 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Butylbenzene	ND	ug/kg	5.8	1		10/04/18 16:10	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	5.8	1		10/04/18 16:10	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	5.8	1		10/04/18 16:10	98-06-6	M5
Carbon disulfide	ND	ug/kg	11.6	1		10/04/18 16:10	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	5.8	1		10/04/18 16:10	56-23-5	M5
Chlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:10	108-90-7	M5
Chloroethane	ND	ug/kg	5.8	1		10/04/18 16:10	75-00-3	M5
Chloroform	ND	ug/kg	5.8	1		10/04/18 16:10	67-66-3	M5
Chloromethane	ND	ug/kg	5.8	1		10/04/18 16:10	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	5.8	1		10/04/18 16:10	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	5.8	1		10/04/18 16:10	106-43-4	M5
Dibromochloromethane	ND	ug/kg	5.8	1		10/04/18 16:10	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		10/04/18 16:10	106-93-4	M5
Dibromomethane	ND	ug/kg	5.8	1		10/04/18 16:10	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:10	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:10	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:10	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	116	1		10/04/18 16:10	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	5.8	1		10/04/18 16:10	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	5.8	1		10/04/18 16:10	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	5.8	1		10/04/18 16:10	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	5.8	1		10/04/18 16:10	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		10/04/18 16:10	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		10/04/18 16:10	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	5.8	1		10/04/18 16:10	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	5.8	1		10/04/18 16:10	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	5.8	1		10/04/18 16:10	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	5.8	1		10/04/18 16:10	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		10/04/18 16:10	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		10/04/18 16:10	10061-02-6	M5
Ethylbenzene	ND	ug/kg	5.8	1		10/04/18 16:10	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	116	1		10/04/18 16:10	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		10/04/18 16:10	87-68-3	M5
n-Hexane	ND	ug/kg	5.8	1		10/04/18 16:10	110-54-3	M5
2-Hexanone	ND	ug/kg	116	1		10/04/18 16:10	591-78-6	M5
Iodomethane	ND	ug/kg	116	1		10/04/18 16:10	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		10/04/18 16:10	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	5.8	1		10/04/18 16:10	99-87-6	M5
Methylene Chloride	ND	ug/kg	23.1	1		10/04/18 16:10	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	28.9	1		10/04/18 16:10	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		10/04/18 16:10	1634-04-4	M5
Naphthalene	ND	ug/kg	5.8	1		10/04/18 16:10	91-20-3	M5
n-Propylbenzene	ND	ug/kg	5.8	1		10/04/18 16:10	103-65-1	M5
Styrene	ND	ug/kg	5.8	1		10/04/18 16:10	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		10/04/18 16:10	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		10/04/18 16:10	79-34-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-10-10-12 **Lab ID: 50206410001** Collected: 09/25/18 12:10 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/kg	5.8	1		10/04/18 16:10	127-18-4	M5
Toluene	ND	ug/kg	5.8	1		10/04/18 16:10	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:10	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:10	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		10/04/18 16:10	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		10/04/18 16:10	79-00-5	M5
Trichloroethene	ND	ug/kg	5.8	1		10/04/18 16:10	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	5.8	1		10/04/18 16:10	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		10/04/18 16:10	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		10/04/18 16:10	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		10/04/18 16:10	108-67-8	M5
Vinyl acetate	ND	ug/kg	116	1		10/04/18 16:10	108-05-4	M5
Vinyl chloride	ND	ug/kg	5.8	1		10/04/18 16:10	75-01-4	M5
Xylene (Total)	ND	ug/kg	11.6	1		10/04/18 16:10	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	112	%.	80-127	1		10/04/18 16:10	1868-53-7	M5
Toluene-d8 (S)	91	%.	72-136	1		10/04/18 16:10	2037-26-5	M5
4-Bromofluorobenzene (S)	84	%.	57-130	1		10/04/18 16:10	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**23.1**	%	0.10	1		09/28/18 12:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-11-6-8 **Lab ID: 50206410002** Collected: 09/25/18 12:20 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.5**	mg/kg	1.0	1	09/28/18 12:35	09/29/18 11:16	7440-38-2	
Barium	**3.7**	mg/kg	1.0	1	09/28/18 12:35	09/29/18 11:16	7440-39-3	
Cadmium	ND	mg/kg	0.51	1	09/28/18 12:35	09/29/18 11:16	7440-43-9	
Chromium	**4.5**	mg/kg	1.0	1	09/28/18 12:35	09/29/18 11:16	7440-47-3	
Lead	**2.7**	mg/kg	1.0	1	09/28/18 12:35	09/29/18 11:16	7439-92-1	
Selenium	ND	mg/kg	1.0	1	09/28/18 12:35	09/29/18 11:16	7782-49-2	
Silver	ND	mg/kg	0.51	1	09/28/18 12:35	09/29/18 11:16	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.21	1	10/02/18 12:18	10/02/18 17:03	7439-97-6	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	83-32-9	
Acenaphthylene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	208-96-8	
Anthracene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	207-08-9	
Chrysene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	53-70-3	
Fluoranthene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	206-44-0	
Fluorene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	91-57-6	
Naphthalene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	91-20-3	
Phenanthrene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	85-01-8	
Pyrene	ND	ug/kg	5.5	1	10/02/18 10:10	10/02/18 20:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%.	40-107	1	10/02/18 10:10	10/02/18 20:31	321-60-8	
p-Terphenyl-d14 (S)	82	%.	35-115	1	10/02/18 10:10	10/02/18 20:31	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	117	1		10/04/18 16:49	67-64-1	M5
Acrolein	ND	ug/kg	117	1		10/04/18 16:49	107-02-8	M5
Acrylonitrile	ND	ug/kg	117	1		10/04/18 16:49	107-13-1	M5
Benzene	ND	ug/kg	5.8	1		10/04/18 16:49	71-43-2	M5
Bromobenzene	ND	ug/kg	5.8	1		10/04/18 16:49	108-86-1	M5
Bromochloromethane	ND	ug/kg	5.8	1		10/04/18 16:49	74-97-5	M5
Bromodichloromethane	ND	ug/kg	5.8	1		10/04/18 16:49	75-27-4	M5
Bromoform	ND	ug/kg	5.8	1		10/04/18 16:49	75-25-2	M5
Bromomethane	ND	ug/kg	5.8	1		10/04/18 16:49	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	29.2	1		10/04/18 16:49	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-11-6-8 **Lab ID: 50206410002** Collected: 09/25/18 12:20 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Butylbenzene	ND	ug/kg	5.8	1		10/04/18 16:49	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	5.8	1		10/04/18 16:49	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	5.8	1		10/04/18 16:49	98-06-6	M5
Carbon disulfide	ND	ug/kg	11.7	1		10/04/18 16:49	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	5.8	1		10/04/18 16:49	56-23-5	M5
Chlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:49	108-90-7	M5
Chloroethane	ND	ug/kg	5.8	1		10/04/18 16:49	75-00-3	M5
Chloroform	ND	ug/kg	5.8	1		10/04/18 16:49	67-66-3	M5
Chloromethane	ND	ug/kg	5.8	1		10/04/18 16:49	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	5.8	1		10/04/18 16:49	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	5.8	1		10/04/18 16:49	106-43-4	M5
Dibromochloromethane	ND	ug/kg	5.8	1		10/04/18 16:49	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		10/04/18 16:49	106-93-4	M5
Dibromomethane	ND	ug/kg	5.8	1		10/04/18 16:49	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:49	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:49	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:49	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	117	1		10/04/18 16:49	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	5.8	1		10/04/18 16:49	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	5.8	1		10/04/18 16:49	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	5.8	1		10/04/18 16:49	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	5.8	1		10/04/18 16:49	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		10/04/18 16:49	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		10/04/18 16:49	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	5.8	1		10/04/18 16:49	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	5.8	1		10/04/18 16:49	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	5.8	1		10/04/18 16:49	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	5.8	1		10/04/18 16:49	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		10/04/18 16:49	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		10/04/18 16:49	10061-02-6	M5
Ethylbenzene	ND	ug/kg	5.8	1		10/04/18 16:49	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	117	1		10/04/18 16:49	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		10/04/18 16:49	87-68-3	M5
n-Hexane	ND	ug/kg	5.8	1		10/04/18 16:49	110-54-3	M5
2-Hexanone	ND	ug/kg	117	1		10/04/18 16:49	591-78-6	M5
Iodomethane	ND	ug/kg	117	1		10/04/18 16:49	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		10/04/18 16:49	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	5.8	1		10/04/18 16:49	99-87-6	M5
Methylene Chloride	ND	ug/kg	23.3	1		10/04/18 16:49	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.2	1		10/04/18 16:49	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		10/04/18 16:49	1634-04-4	M5
Naphthalene	ND	ug/kg	5.8	1		10/04/18 16:49	91-20-3	M5
n-Propylbenzene	ND	ug/kg	5.8	1		10/04/18 16:49	103-65-1	M5
Styrene	ND	ug/kg	5.8	1		10/04/18 16:49	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		10/04/18 16:49	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		10/04/18 16:49	79-34-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-11-6-8 **Lab ID: 50206410002** Collected: 09/25/18 12:20 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/kg	5.8	1		10/04/18 16:49	127-18-4	M5
Toluene	ND	ug/kg	5.8	1		10/04/18 16:49	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:49	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		10/04/18 16:49	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		10/04/18 16:49	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		10/04/18 16:49	79-00-5	M5
Trichloroethene	ND	ug/kg	5.8	1		10/04/18 16:49	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	5.8	1		10/04/18 16:49	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		10/04/18 16:49	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		10/04/18 16:49	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		10/04/18 16:49	108-67-8	M5
Vinyl acetate	ND	ug/kg	117	1		10/04/18 16:49	108-05-4	M5
Vinyl chloride	ND	ug/kg	5.8	1		10/04/18 16:49	75-01-4	M5
Xylene (Total)	ND	ug/kg	11.7	1		10/04/18 16:49	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	117	%.	80-127	1		10/04/18 16:49	1868-53-7	M5
Toluene-d8 (S)	93	%.	72-136	1		10/04/18 16:49	2037-26-5	M5
4-Bromofluorobenzene (S)	81	%.	57-130	1		10/04/18 16:49	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**10.2**	%	0.10	1		09/28/18 12:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-12-6-8 **Lab ID: 50206410003** Collected: 09/25/18 16:35 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**5.5**	mg/kg	1.1	1	09/28/18 12:35	09/29/18 11:18	7440-38-2	
Barium	**152**	mg/kg	1.1	1	09/28/18 12:35	09/29/18 11:18	7440-39-3	
Cadmium	**0.67**	mg/kg	0.56	1	09/28/18 12:35	09/29/18 11:18	7440-43-9	
Chromium	**12.7**	mg/kg	1.1	1	09/28/18 12:35	09/29/18 11:18	7440-47-3	
Lead	**13.8**	mg/kg	1.1	1	09/28/18 12:35	09/29/18 11:18	7439-92-1	
Selenium	**2.0**	mg/kg	1.1	1	09/28/18 12:35	09/29/18 11:18	7782-49-2	
Silver	ND	mg/kg	0.56	1	09/28/18 12:35	09/29/18 11:18	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.27	1	10/02/18 12:18	10/02/18 17:06	7439-97-6	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	83-32-9	
Acenaphthylene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	208-96-8	
Anthracene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	207-08-9	
Chrysene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	53-70-3	
Fluoranthene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	206-44-0	
Fluorene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	91-57-6	
Naphthalene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	91-20-3	
Phenanthrene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	85-01-8	
Pyrene	ND	ug/kg	6.7	1	10/02/18 10:10	10/02/18 20:47	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75	%.	40-107	1	10/02/18 10:10	10/02/18 20:47	321-60-8	
p-Terphenyl-d14 (S)	75	%.	35-115	1	10/02/18 10:10	10/02/18 20:47	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	119	1		10/04/18 17:27	67-64-1	M5
Acrolein	ND	ug/kg	119	1		10/04/18 17:27	107-02-8	M5
Acrylonitrile	ND	ug/kg	119	1		10/04/18 17:27	107-13-1	M5
Benzene	ND	ug/kg	6.0	1		10/04/18 17:27	71-43-2	M5
Bromobenzene	ND	ug/kg	6.0	1		10/04/18 17:27	108-86-1	M5
Bromochloromethane	ND	ug/kg	6.0	1		10/04/18 17:27	74-97-5	M5
Bromodichloromethane	ND	ug/kg	6.0	1		10/04/18 17:27	75-27-4	M5
Bromoform	ND	ug/kg	6.0	1		10/04/18 17:27	75-25-2	M5
Bromomethane	ND	ug/kg	6.0	1		10/04/18 17:27	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	29.8	1		10/04/18 17:27	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-12-6-8 **Lab ID: 50206410003** Collected: 09/25/18 16:35 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Butylbenzene	ND	ug/kg	6.0	1		10/04/18 17:27	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	6.0	1		10/04/18 17:27	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	6.0	1		10/04/18 17:27	98-06-6	M5
Carbon disulfide	ND	ug/kg	11.9	1		10/04/18 17:27	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	6.0	1		10/04/18 17:27	56-23-5	M5
Chlorobenzene	ND	ug/kg	6.0	1		10/04/18 17:27	108-90-7	M5
Chloroethane	ND	ug/kg	6.0	1		10/04/18 17:27	75-00-3	M5
Chloroform	ND	ug/kg	6.0	1		10/04/18 17:27	67-66-3	M5
Chloromethane	ND	ug/kg	6.0	1		10/04/18 17:27	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	6.0	1		10/04/18 17:27	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	6.0	1		10/04/18 17:27	106-43-4	M5
Dibromochloromethane	ND	ug/kg	6.0	1		10/04/18 17:27	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	6.0	1		10/04/18 17:27	106-93-4	M5
Dibromomethane	ND	ug/kg	6.0	1		10/04/18 17:27	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	6.0	1		10/04/18 17:27	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	6.0	1		10/04/18 17:27	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	6.0	1		10/04/18 17:27	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	119	1		10/04/18 17:27	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	6.0	1		10/04/18 17:27	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	6.0	1		10/04/18 17:27	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	6.0	1		10/04/18 17:27	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	6.0	1		10/04/18 17:27	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	6.0	1		10/04/18 17:27	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	6.0	1		10/04/18 17:27	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	6.0	1		10/04/18 17:27	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	6.0	1		10/04/18 17:27	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	6.0	1		10/04/18 17:27	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	6.0	1		10/04/18 17:27	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	6.0	1		10/04/18 17:27	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	6.0	1		10/04/18 17:27	10061-02-6	M5
Ethylbenzene	ND	ug/kg	6.0	1		10/04/18 17:27	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	119	1		10/04/18 17:27	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	6.0	1		10/04/18 17:27	87-68-3	M5
n-Hexane	ND	ug/kg	6.0	1		10/04/18 17:27	110-54-3	M5
2-Hexanone	ND	ug/kg	119	1		10/04/18 17:27	591-78-6	M5
Iodomethane	ND	ug/kg	119	1		10/04/18 17:27	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	6.0	1		10/04/18 17:27	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	6.0	1		10/04/18 17:27	99-87-6	M5
Methylene Chloride	ND	ug/kg	23.8	1		10/04/18 17:27	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.8	1		10/04/18 17:27	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	6.0	1		10/04/18 17:27	1634-04-4	M5
Naphthalene	ND	ug/kg	6.0	1		10/04/18 17:27	91-20-3	M5
n-Propylbenzene	ND	ug/kg	6.0	1		10/04/18 17:27	103-65-1	M5
Styrene	ND	ug/kg	6.0	1		10/04/18 17:27	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.0	1		10/04/18 17:27	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.0	1		10/04/18 17:27	79-34-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-12-6-8 **Lab ID: 50206410003** Collected: 09/25/18 16:35 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/kg	6.0	1		10/04/18 17:27	127-18-4	M5
Toluene	ND	ug/kg	6.0	1		10/04/18 17:27	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	6.0	1		10/04/18 17:27	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	6.0	1		10/04/18 17:27	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	6.0	1		10/04/18 17:27	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	6.0	1		10/04/18 17:27	79-00-5	M5
Trichloroethene	ND	ug/kg	6.0	1		10/04/18 17:27	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	6.0	1		10/04/18 17:27	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	6.0	1		10/04/18 17:27	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	6.0	1		10/04/18 17:27	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	6.0	1		10/04/18 17:27	108-67-8	M5
Vinyl acetate	ND	ug/kg	119	1		10/04/18 17:27	108-05-4	M5
Vinyl chloride	ND	ug/kg	6.0	1		10/04/18 17:27	75-01-4	M5
Xylene (Total)	ND	ug/kg	11.9	1		10/04/18 17:27	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	112	%.	80-127	1		10/04/18 17:27	1868-53-7	M5
Toluene-d8 (S)	95	%.	72-136	1		10/04/18 17:27	2037-26-5	M5
4-Bromofluorobenzene (S)	83	%.	57-130	1		10/04/18 17:27	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**25.8**	%	0.10	1		09/28/18 12:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-15-2-4 **Lab ID: 50206410004** Collected: 09/25/18 15:50 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	83-32-9	
Acenaphthylene	ND	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	208-96-8	
Anthracene	ND	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	120-12-7	
Benzo(a)anthracene	**49.9**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	56-55-3	
Benzo(a)pyrene	**35.1**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	50-32-8	
Benzo(b)fluoranthene	**43.7**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	205-99-2	
Benzo(g,h,i)perylene	**32.8**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	191-24-2	
Benzo(k)fluoranthene	**42.6**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	207-08-9	
Chrysene	**84.6**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	53-70-3	
Fluoranthene	**59.9**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	206-44-0	
Fluorene	ND	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	193-39-5	
1-Methylnaphthalene	**96.3**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	90-12-0	N2
2-Methylnaphthalene	**107**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	91-57-6	
Naphthalene	**65.9**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	91-20-3	ED
Phenanthrene	**134**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	85-01-8	
Pyrene	**51.7**	ug/kg	29.5	5	10/02/18 10:10	10/02/18 21:04	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	72	%.	40-107	5	10/02/18 10:10	10/02/18 21:04	321-60-8	
p-Terphenyl-d14 (S)	71	%.	35-115	5	10/02/18 10:10	10/02/18 21:04	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	94.2	1		10/04/18 18:05	67-64-1	M5
Acrolein	ND	ug/kg	94.2	1		10/04/18 18:05	107-02-8	M5
Acrylonitrile	ND	ug/kg	94.2	1		10/04/18 18:05	107-13-1	M5
Benzene	ND	ug/kg	4.7	1		10/04/18 18:05	71-43-2	M5
Bromobenzene	ND	ug/kg	4.7	1		10/04/18 18:05	108-86-1	M5
Bromochloromethane	ND	ug/kg	4.7	1		10/04/18 18:05	74-97-5	M5
Bromodichloromethane	ND	ug/kg	4.7	1		10/04/18 18:05	75-27-4	M5
Bromoform	ND	ug/kg	4.7	1		10/04/18 18:05	75-25-2	M5
Bromomethane	ND	ug/kg	4.7	1		10/04/18 18:05	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	23.6	1		10/04/18 18:05	78-93-3	M5
n-Butylbenzene	ND	ug/kg	4.7	1		10/04/18 18:05	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	4.7	1		10/04/18 18:05	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	4.7	1		10/04/18 18:05	98-06-6	M5
Carbon disulfide	ND	ug/kg	9.4	1		10/04/18 18:05	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	4.7	1		10/04/18 18:05	56-23-5	M5
Chlorobenzene	ND	ug/kg	4.7	1		10/04/18 18:05	108-90-7	M5
Chloroethane	ND	ug/kg	4.7	1		10/04/18 18:05	75-00-3	M5
Chloroform	ND	ug/kg	4.7	1		10/04/18 18:05	67-66-3	M5
Chloromethane	ND	ug/kg	4.7	1		10/04/18 18:05	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	4.7	1		10/04/18 18:05	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	4.7	1		10/04/18 18:05	106-43-4	M5
Dibromochloromethane	ND	ug/kg	4.7	1		10/04/18 18:05	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/04/18 18:05	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-15-2-4 **Lab ID: 50206410004** Collected: 09/25/18 15:50 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	4.7	1		10/04/18 18:05	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/04/18 18:05	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/04/18 18:05	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/04/18 18:05	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	94.2	1		10/04/18 18:05	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	4.7	1		10/04/18 18:05	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/04/18 18:05	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/04/18 18:05	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/04/18 18:05	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/04/18 18:05	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/04/18 18:05	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/04/18 18:05	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/04/18 18:05	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/04/18 18:05	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/04/18 18:05	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/04/18 18:05	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/04/18 18:05	10061-02-6	M5
Ethylbenzene	ND	ug/kg	4.7	1		10/04/18 18:05	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	94.2	1		10/04/18 18:05	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/04/18 18:05	87-68-3	M5
n-Hexane	ND	ug/kg	4.7	1		10/04/18 18:05	110-54-3	M5
2-Hexanone	ND	ug/kg	94.2	1		10/04/18 18:05	591-78-6	M5
Iodomethane	ND	ug/kg	94.2	1		10/04/18 18:05	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/04/18 18:05	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/04/18 18:05	99-87-6	M5
Methylene Chloride	ND	ug/kg	18.8	1		10/04/18 18:05	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.6	1		10/04/18 18:05	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/04/18 18:05	1634-04-4	M5
Naphthalene	ND	ug/kg	4.7	1		10/04/18 18:05	91-20-3	M5
n-Propylbenzene	ND	ug/kg	4.7	1		10/04/18 18:05	103-65-1	M5
Styrene	ND	ug/kg	4.7	1		10/04/18 18:05	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/04/18 18:05	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/04/18 18:05	79-34-5	M5
Tetrachloroethene	ND	ug/kg	4.7	1		10/04/18 18:05	127-18-4	M5
Toluene	ND	ug/kg	4.7	1		10/04/18 18:05	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/04/18 18:05	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/04/18 18:05	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/04/18 18:05	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/04/18 18:05	79-00-5	M5
Trichloroethene	ND	ug/kg	4.7	1		10/04/18 18:05	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/04/18 18:05	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/04/18 18:05	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/04/18 18:05	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/04/18 18:05	108-67-8	M5
Vinyl acetate	ND	ug/kg	94.2	1		10/04/18 18:05	108-05-4	M5
Vinyl chloride	ND	ug/kg	4.7	1		10/04/18 18:05	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-15-2-4 **Lab ID: 50206410004** Collected: 09/25/18 15:50 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	9.4	1		10/04/18 18:05	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	110	%.	80-127	1		10/04/18 18:05	1868-53-7	M5
Toluene-d8 (S)	97	%.	72-136	1		10/04/18 18:05	2037-26-5	M5
4-Bromofluorobenzene (S)	80	%.	57-130	1		10/04/18 18:05	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**16.0**	%	0.10	1		09/28/18 12:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-16-6-8 **Lab ID: 50206410005** Collected: 09/25/18 15:41 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	83-32-9	
Acenaphthylene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	208-96-8	
Anthracene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	207-08-9	
Chrysene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	53-70-3	
Fluoranthene	**6.5**	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	206-44-0	
Fluorene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	91-57-6	
Naphthalene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	91-20-3	
Phenanthrene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	85-01-8	
Pyrene	ND	ug/kg	6.3	1	10/02/18 10:10	10/02/18 21:20	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	40-107	1	10/02/18 10:10	10/02/18 21:20	321-60-8	
p-Terphenyl-d14 (S)	78	%.	35-115	1	10/02/18 10:10	10/02/18 21:20	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	107	1		10/04/18 18:44	67-64-1	M5
Acrolein	ND	ug/kg	107	1		10/04/18 18:44	107-02-8	M5
Acrylonitrile	ND	ug/kg	107	1		10/04/18 18:44	107-13-1	M5
Benzene	ND	ug/kg	5.4	1		10/04/18 18:44	71-43-2	M5
Bromobenzene	ND	ug/kg	5.4	1		10/04/18 18:44	108-86-1	M5
Bromochloromethane	ND	ug/kg	5.4	1		10/04/18 18:44	74-97-5	M5
Bromodichloromethane	ND	ug/kg	5.4	1		10/04/18 18:44	75-27-4	M5
Bromoform	ND	ug/kg	5.4	1		10/04/18 18:44	75-25-2	M5
Bromomethane	ND	ug/kg	5.4	1		10/04/18 18:44	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	26.9	1		10/04/18 18:44	78-93-3	M5
n-Butylbenzene	ND	ug/kg	5.4	1		10/04/18 18:44	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	5.4	1		10/04/18 18:44	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	5.4	1		10/04/18 18:44	98-06-6	M5
Carbon disulfide	ND	ug/kg	10.7	1		10/04/18 18:44	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	5.4	1		10/04/18 18:44	56-23-5	M5
Chlorobenzene	ND	ug/kg	5.4	1		10/04/18 18:44	108-90-7	M5
Chloroethane	ND	ug/kg	5.4	1		10/04/18 18:44	75-00-3	M5
Chloroform	ND	ug/kg	5.4	1		10/04/18 18:44	67-66-3	M5
Chloromethane	ND	ug/kg	5.4	1		10/04/18 18:44	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	5.4	1		10/04/18 18:44	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	5.4	1		10/04/18 18:44	106-43-4	M5
Dibromochloromethane	ND	ug/kg	5.4	1		10/04/18 18:44	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		10/04/18 18:44	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-16-6-8 **Lab ID: 50206410005** Collected: 09/25/18 15:41 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	5.4	1		10/04/18 18:44	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		10/04/18 18:44	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		10/04/18 18:44	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		10/04/18 18:44	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	107	1		10/04/18 18:44	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	5.4	1		10/04/18 18:44	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	5.4	1		10/04/18 18:44	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	5.4	1		10/04/18 18:44	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	5.4	1		10/04/18 18:44	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		10/04/18 18:44	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		10/04/18 18:44	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	5.4	1		10/04/18 18:44	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	5.4	1		10/04/18 18:44	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	5.4	1		10/04/18 18:44	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	5.4	1		10/04/18 18:44	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		10/04/18 18:44	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		10/04/18 18:44	10061-02-6	M5
Ethylbenzene	ND	ug/kg	5.4	1		10/04/18 18:44	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	107	1		10/04/18 18:44	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		10/04/18 18:44	87-68-3	M5
n-Hexane	ND	ug/kg	5.4	1		10/04/18 18:44	110-54-3	M5
2-Hexanone	ND	ug/kg	107	1		10/04/18 18:44	591-78-6	M5
Iodomethane	ND	ug/kg	107	1		10/04/18 18:44	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		10/04/18 18:44	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	5.4	1		10/04/18 18:44	99-87-6	M5
Methylene Chloride	ND	ug/kg	21.5	1		10/04/18 18:44	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.9	1		10/04/18 18:44	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		10/04/18 18:44	1634-04-4	M5
Naphthalene	ND	ug/kg	5.4	1		10/04/18 18:44	91-20-3	M5
n-Propylbenzene	ND	ug/kg	5.4	1		10/04/18 18:44	103-65-1	M5
Styrene	ND	ug/kg	5.4	1		10/04/18 18:44	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		10/04/18 18:44	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		10/04/18 18:44	79-34-5	M5
Tetrachloroethene	ND	ug/kg	5.4	1		10/04/18 18:44	127-18-4	M5
Toluene	ND	ug/kg	5.4	1		10/04/18 18:44	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		10/04/18 18:44	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		10/04/18 18:44	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		10/04/18 18:44	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		10/04/18 18:44	79-00-5	M5
Trichloroethene	ND	ug/kg	5.4	1		10/04/18 18:44	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	5.4	1		10/04/18 18:44	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		10/04/18 18:44	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		10/04/18 18:44	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		10/04/18 18:44	108-67-8	M5
Vinyl acetate	ND	ug/kg	107	1		10/04/18 18:44	108-05-4	M5
Vinyl chloride	ND	ug/kg	5.4	1		10/04/18 18:44	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-16-6-8 **Lab ID: 50206410005** Collected: 09/25/18 15:41 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	10.7	1		10/04/18 18:44	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	114	%.	80-127	1		10/04/18 18:44	1868-53-7	M5
Toluene-d8 (S)	96	%.	72-136	1		10/04/18 18:44	2037-26-5	M5
4-Bromofluorobenzene (S)	81	%.	57-130	1		10/04/18 18:44	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**21.7**	%	0.10	1		09/28/18 12:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-17-6-8 **Lab ID: 50206410006** Collected: 09/25/18 14:15 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	83-32-9	
Acenaphthylene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	208-96-8	
Anthracene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	207-08-9	
Chrysene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	53-70-3	
Fluoranthene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	206-44-0	
Fluorene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	91-57-6	
Naphthalene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	91-20-3	
Phenanthrene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	85-01-8	
Pyrene	ND	ug/kg	6.2	1	10/02/18 10:10	10/02/18 21:37	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67	%.	40-107	1	10/02/18 10:10	10/02/18 21:37	321-60-8	
p-Terphenyl-d14 (S)	79	%.	35-115	1	10/02/18 10:10	10/02/18 21:37	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	98.3	1		10/04/18 19:22	67-64-1	M5
Acrolein	ND	ug/kg	98.3	1		10/04/18 19:22	107-02-8	M5
Acrylonitrile	ND	ug/kg	98.3	1		10/04/18 19:22	107-13-1	M5
Benzene	ND	ug/kg	4.9	1		10/04/18 19:22	71-43-2	M5
Bromobenzene	ND	ug/kg	4.9	1		10/04/18 19:22	108-86-1	M5
Bromochloromethane	ND	ug/kg	4.9	1		10/04/18 19:22	74-97-5	M5
Bromodichloromethane	ND	ug/kg	4.9	1		10/04/18 19:22	75-27-4	M5
Bromoform	ND	ug/kg	4.9	1		10/04/18 19:22	75-25-2	M5
Bromomethane	ND	ug/kg	4.9	1		10/04/18 19:22	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	24.6	1		10/04/18 19:22	78-93-3	M5
n-Butylbenzene	ND	ug/kg	4.9	1		10/04/18 19:22	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	4.9	1		10/04/18 19:22	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	4.9	1		10/04/18 19:22	98-06-6	M5
Carbon disulfide	ND	ug/kg	9.8	1		10/04/18 19:22	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	4.9	1		10/04/18 19:22	56-23-5	M5
Chlorobenzene	ND	ug/kg	4.9	1		10/04/18 19:22	108-90-7	M5
Chloroethane	ND	ug/kg	4.9	1		10/04/18 19:22	75-00-3	M5
Chloroform	ND	ug/kg	4.9	1		10/04/18 19:22	67-66-3	M5
Chloromethane	ND	ug/kg	4.9	1		10/04/18 19:22	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	4.9	1		10/04/18 19:22	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	4.9	1		10/04/18 19:22	106-43-4	M5
Dibromochloromethane	ND	ug/kg	4.9	1		10/04/18 19:22	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		10/04/18 19:22	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-17-6-8 **Lab ID: 50206410006** Collected: 09/25/18 14:15 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	4.9	1		10/04/18 19:22	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		10/04/18 19:22	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		10/04/18 19:22	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		10/04/18 19:22	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	98.3	1		10/04/18 19:22	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	4.9	1		10/04/18 19:22	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	4.9	1		10/04/18 19:22	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	4.9	1		10/04/18 19:22	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	4.9	1		10/04/18 19:22	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/04/18 19:22	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/04/18 19:22	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	4.9	1		10/04/18 19:22	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	4.9	1		10/04/18 19:22	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	4.9	1		10/04/18 19:22	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	4.9	1		10/04/18 19:22	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/04/18 19:22	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/04/18 19:22	10061-02-6	M5
Ethylbenzene	ND	ug/kg	4.9	1		10/04/18 19:22	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	98.3	1		10/04/18 19:22	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		10/04/18 19:22	87-68-3	M5
n-Hexane	ND	ug/kg	4.9	1		10/04/18 19:22	110-54-3	M5
2-Hexanone	ND	ug/kg	98.3	1		10/04/18 19:22	591-78-6	M5
Iodomethane	ND	ug/kg	98.3	1		10/04/18 19:22	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		10/04/18 19:22	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	4.9	1		10/04/18 19:22	99-87-6	M5
Methylene Chloride	ND	ug/kg	19.7	1		10/04/18 19:22	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.6	1		10/04/18 19:22	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		10/04/18 19:22	1634-04-4	M5
Naphthalene	ND	ug/kg	4.9	1		10/04/18 19:22	91-20-3	M5
n-Propylbenzene	ND	ug/kg	4.9	1		10/04/18 19:22	103-65-1	M5
Styrene	ND	ug/kg	4.9	1		10/04/18 19:22	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/04/18 19:22	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/04/18 19:22	79-34-5	M5
Tetrachloroethene	ND	ug/kg	4.9	1		10/04/18 19:22	127-18-4	M5
Toluene	ND	ug/kg	4.9	1		10/04/18 19:22	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		10/04/18 19:22	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		10/04/18 19:22	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		10/04/18 19:22	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		10/04/18 19:22	79-00-5	M5
Trichloroethene	ND	ug/kg	4.9	1		10/04/18 19:22	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	4.9	1		10/04/18 19:22	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		10/04/18 19:22	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		10/04/18 19:22	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		10/04/18 19:22	108-67-8	M5
Vinyl acetate	ND	ug/kg	98.3	1		10/04/18 19:22	108-05-4	M5
Vinyl chloride	ND	ug/kg	4.9	1		10/04/18 19:22	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-17-6-8 **Lab ID: 50206410006** Collected: 09/25/18 14:15 Received: 09/26/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	9.8	1		10/04/18 19:22	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	116	%.	80-127	1		10/04/18 19:22	1868-53-7	M5
Toluene-d8 (S)	96	%.	72-136	1		10/04/18 19:22	2037-26-5	M5
4-Bromofluorobenzene (S)	81	%.	57-130	1		10/04/18 19:22	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.6**	%	0.10	1		09/28/18 12:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-10-GW-4-14 **Lab ID: 50206410007** Collected: 09/25/18 12:15 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	208-96-8	
Anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:30	120-12-7	
Benzo(a)anthracene	**0.13**	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:30	56-55-3	
Benzo(a)pyrene	**0.15**	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:30	50-32-8	
Benzo(b)fluoranthene	**0.24**	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:30	205-99-2	
Benzo(g,h,i)perylene	**0.10**	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:30	207-08-9	
Chrysene	ND	ug/L	0.50	1	09/30/18 18:13	10/03/18 12:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:30	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	206-44-0	
Fluorene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:30	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	91-57-6	
Naphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	85-01-8	
Pyrene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:30	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	37	%.	10-108	1	09/30/18 18:13	10/03/18 12:30	321-60-8	
p-Terphenyl-d14 (S)	54	%.	10-167	1	09/30/18 18:13	10/03/18 12:30	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/03/18 22:34	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/03/18 22:34	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/03/18 22:34	107-13-1	
Benzene	ND	ug/L	5.0	1		10/03/18 22:34	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/03/18 22:34	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/03/18 22:34	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/18 22:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/18 22:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/18 22:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/03/18 22:34	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/03/18 22:34	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/03/18 22:34	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/03/18 22:34	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/03/18 22:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/18 22:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/18 22:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/18 22:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/18 22:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/18 14:16	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/03/18 22:34	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/03/18 22:34	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/18 22:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/03/18 22:34	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/03/18 22:34	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-10-GW-4-14 **Lab ID: 50206410007** Collected: 09/25/18 12:15 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 22:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 22:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 22:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/03/18 22:34	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/03/18 22:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/18 22:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/18 22:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/18 22:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/18 22:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/18 22:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/18 22:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/03/18 22:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/03/18 22:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/03/18 22:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/18 22:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/18 22:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/18 22:34	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/03/18 22:34	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/03/18 22:34	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/03/18 22:34	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/03/18 22:34	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/03/18 22:34	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/03/18 22:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/03/18 22:34	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/03/18 22:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/03/18 22:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/03/18 22:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/03/18 22:34	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/03/18 22:34	103-65-1	
Styrene	ND	ug/L	5.0	1		10/03/18 22:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/18 22:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/18 22:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/18 22:34	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/18 22:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/03/18 22:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/03/18 22:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/18 22:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/18 22:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/03/18 22:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/18 22:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/03/18 22:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/03/18 22:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/03/18 22:34	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/03/18 22:34	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/03/18 22:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/03/18 22:34	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-10-GW-4-14 **Lab ID: 50206410007** Collected: 09/25/18 12:15 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	110	%.	89-116	1		10/03/18 22:34	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	85-111	1		10/03/18 22:34	460-00-4	
Toluene-d8 (S)	89	%.	87-110	1		10/03/18 22:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-11-GW-2-12 **Lab ID: 50206410008** Collected: 09/25/18 12:35 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	208-96-8	
Anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:42	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:42	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:42	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:42	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:42	207-08-9	
Chrysene	ND	ug/L	0.50	1	09/30/18 18:13	10/03/18 12:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:42	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	206-44-0	
Fluorene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:42	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	91-57-6	
Naphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	85-01-8	
Pyrene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:42	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	39	%.	10-108	1	09/30/18 18:13	10/03/18 12:42	321-60-8	
p-Terphenyl-d14 (S)	60	%.	10-167	1	09/30/18 18:13	10/03/18 12:42	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/04/18 00:29	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/04/18 00:29	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/04/18 00:29	107-13-1	
Benzene	ND	ug/L	5.0	1		10/04/18 00:29	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/04/18 00:29	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/04/18 00:29	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/18 00:29	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/18 00:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/18 00:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/04/18 00:29	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/04/18 00:29	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/04/18 00:29	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/04/18 00:29	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/04/18 00:29	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/18 00:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/18 00:29	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/18 00:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/18 00:29	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/18 14:54	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 00:29	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 00:29	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/18 00:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/04/18 00:29	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/04/18 00:29	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-11-GW-2-12 **Lab ID: 50206410008** Collected: 09/25/18 12:35 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 00:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 00:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 00:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/04/18 00:29	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/04/18 00:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/18 00:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/18 00:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/18 00:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 00:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 00:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 00:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/04/18 00:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 00:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/04/18 00:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 00:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 00:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/18 00:29	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/04/18 00:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/04/18 00:29	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/04/18 00:29	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/04/18 00:29	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/04/18 00:29	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/04/18 00:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/04/18 00:29	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/18 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/04/18 00:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/04/18 00:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/04/18 00:29	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/04/18 00:29	103-65-1	
Styrene	ND	ug/L	5.0	1		10/04/18 00:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 00:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 00:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/18 00:29	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/18 00:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 00:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 00:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/18 00:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/18 00:29	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/04/18 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/18 00:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/04/18 00:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 00:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 00:29	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/04/18 00:29	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/04/18 00:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/04/18 00:29	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-11-GW-2-12 **Lab ID: 50206410008** Collected: 09/25/18 12:35 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	101	%.	89-116	1		10/04/18 00:29	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	85-111	1		10/04/18 00:29	460-00-4	
Toluene-d8 (S)	95	%.	87-110	1		10/04/18 00:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-12-GW-0-10 **Lab ID: 50206410009** Collected: 09/25/18 16:00 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	208-96-8	
Anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:53	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:53	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:53	207-08-9	
Chrysene	ND	ug/L	0.50	1	09/30/18 18:13	10/03/18 12:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:53	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	206-44-0	
Fluorene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 12:53	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	91-57-6	
Naphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	85-01-8	
Pyrene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 12:53	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77	%.	10-108	1	09/30/18 18:13	10/03/18 12:53	321-60-8	
p-Terphenyl-d14 (S)	109	%.	10-167	1	09/30/18 18:13	10/03/18 12:53	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/04/18 01:07	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/04/18 01:07	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/04/18 01:07	107-13-1	
Benzene	ND	ug/L	5.0	1		10/04/18 01:07	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/04/18 01:07	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/04/18 01:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/18 01:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/18 01:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/18 01:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/04/18 01:07	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/04/18 01:07	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/04/18 01:07	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/04/18 01:07	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/04/18 01:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/18 01:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/18 01:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/18 01:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/18 01:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/18 01:07	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 01:07	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 01:07	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/18 01:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/04/18 01:07	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/04/18 01:07	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-12-GW-0-10 **Lab ID: 50206410009** Collected: 09/25/18 16:00 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/04/18 01:07	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/04/18 01:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/18 01:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/18 01:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/18 01:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 01:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 01:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 01:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/04/18 01:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 01:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/04/18 01:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 01:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 01:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/18 01:07	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/04/18 01:07	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/04/18 01:07	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/04/18 01:07	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/04/18 01:07	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/04/18 01:07	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/04/18 01:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/04/18 01:07	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/18 01:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/04/18 01:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/04/18 01:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/04/18 01:07	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/04/18 01:07	103-65-1	
Styrene	ND	ug/L	5.0	1		10/04/18 01:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 01:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 01:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/18 01:07	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/18 01:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/18 01:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/18 01:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/04/18 01:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/18 01:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/04/18 01:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 01:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 01:07	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/04/18 01:07	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/04/18 01:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/04/18 01:07	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-12-GW-0-10 **Lab ID: 50206410009** Collected: 09/25/18 16:00 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	107	%.	89-116	1		10/04/18 01:07	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	85-111	1		10/04/18 01:07	460-00-4	
Toluene-d8 (S)	91	%.	87-110	1		10/04/18 01:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-15-GW-0-10 **Lab ID: 50206410010** Collected: 09/25/18 15:05 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	208-96-8	
Anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 13:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 13:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 13:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 13:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 13:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 13:05	207-08-9	
Chrysene	ND	ug/L	0.50	1	09/30/18 18:13	10/03/18 13:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 13:05	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	206-44-0	
Fluorene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	09/30/18 18:13	10/03/18 13:05	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	91-57-6	
Naphthalene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	85-01-8	
Pyrene	ND	ug/L	1.0	1	09/30/18 18:13	10/03/18 13:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	33	%.	10-108	1	09/30/18 18:13	10/03/18 13:05	321-60-8	
p-Terphenyl-d14 (S)	53	%.	10-167	1	09/30/18 18:13	10/03/18 13:05	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/04/18 01:45	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/04/18 01:45	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/04/18 01:45	107-13-1	
Benzene	ND	ug/L	5.0	1		10/04/18 01:45	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/04/18 01:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/04/18 01:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/18 01:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/18 01:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/18 01:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/04/18 01:45	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/04/18 01:45	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/04/18 01:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/04/18 01:45	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/04/18 01:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/18 01:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/18 01:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/18 01:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/18 01:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/18 01:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 01:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 01:45	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/18 01:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/04/18 01:45	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/04/18 01:45	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-15-GW-0-10 **Lab ID: 50206410010** Collected: 09/25/18 15:05 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/04/18 01:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/04/18 01:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/18 01:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/18 01:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/18 01:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 01:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 01:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 01:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/04/18 01:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 01:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/04/18 01:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 01:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 01:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/18 01:45	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/04/18 01:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/04/18 01:45	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/04/18 01:45	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/04/18 01:45	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/04/18 01:45	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/04/18 01:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/04/18 01:45	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/18 01:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/04/18 01:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/04/18 01:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/04/18 01:45	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/04/18 01:45	103-65-1	
Styrene	ND	ug/L	5.0	1		10/04/18 01:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 01:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 01:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/18 01:45	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/18 01:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 01:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/18 01:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/18 01:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/04/18 01:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/18 01:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/04/18 01:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 01:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 01:45	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/04/18 01:45	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/04/18 01:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/04/18 01:45	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-15-GW-0-10 **Lab ID: 50206410010** Collected: 09/25/18 15:05 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	109	%.	89-116	1		10/04/18 01:45	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	85-111	1		10/04/18 01:45	460-00-4	
Toluene-d8 (S)	92	%.	87-110	1		10/04/18 01:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-16-GW-6-11 **Lab ID: 50206410011** Collected: 09/25/18 14:35 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/01/18 09:20	10/03/18 10:44	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/01/18 09:20	10/03/18 10:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/01/18 09:20	10/03/18 10:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/01/18 09:20	10/03/18 10:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/01/18 09:20	10/03/18 10:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/01/18 09:20	10/03/18 10:44	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/01/18 09:20	10/03/18 10:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/01/18 09:20	10/03/18 10:44	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/01/18 09:20	10/03/18 10:44	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/01/18 09:20	10/03/18 10:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	41	%.	10-108	1	10/01/18 09:20	10/03/18 10:44	321-60-8	
p-Terphenyl-d14 (S)	48	%.	10-167	1	10/01/18 09:20	10/03/18 10:44	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/04/18 02:24	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/04/18 02:24	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/04/18 02:24	107-13-1	
Benzene	ND	ug/L	5.0	1		10/04/18 02:24	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/04/18 02:24	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/04/18 02:24	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/18 02:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/18 02:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/18 02:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/04/18 02:24	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/04/18 02:24	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/04/18 02:24	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/04/18 02:24	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/04/18 02:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/18 02:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/18 02:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/18 02:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/18 02:24	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/18 02:24	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 02:24	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 02:24	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/18 02:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/04/18 02:24	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/04/18 02:24	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-16-GW-6-11 **Lab ID: 50206410011** Collected: 09/25/18 14:35 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 02:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 02:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 02:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/04/18 02:24	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/04/18 02:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/18 02:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/18 02:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/18 02:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 02:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 02:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 02:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/04/18 02:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 02:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/04/18 02:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 02:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 02:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/18 02:24	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/04/18 02:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/04/18 02:24	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/04/18 02:24	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/04/18 02:24	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/04/18 02:24	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/04/18 02:24	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/04/18 02:24	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/18 02:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/04/18 02:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/04/18 02:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/04/18 02:24	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/04/18 02:24	103-65-1	
Styrene	ND	ug/L	5.0	1		10/04/18 02:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 02:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 02:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/18 02:24	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/18 02:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 02:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 02:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/18 02:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/18 02:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/04/18 02:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/18 02:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/04/18 02:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 02:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 02:24	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/04/18 02:24	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/04/18 02:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/04/18 02:24	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-16-GW-6-11 **Lab ID: 50206410011** Collected: 09/25/18 14:35 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	112	%.	89-116	1		10/04/18 02:24	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	85-111	1		10/04/18 02:24	460-00-4	
Toluene-d8 (S)	92	%.	87-110	1		10/04/18 02:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-17-GW-2-12 **Lab ID: 50206410012** Collected: 09/25/18 14:00 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	83-32-9	
Acenaphthylene	ND	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	208-96-8	
Anthracene	ND	ug/L	0.11	1	10/01/18 09:20	10/03/18 10:54	120-12-7	
Benzo(a)anthracene	**0.36**	ug/L	0.11	1	10/01/18 09:20	10/03/18 10:54	56-55-3	
Benzo(a)pyrene	**0.22**	ug/L	0.11	1	10/01/18 09:20	10/03/18 10:54	50-32-8	
Benzo(b)fluoranthene	**0.17**	ug/L	0.11	1	10/01/18 09:20	10/03/18 10:54	205-99-2	
Benzo(g,h,i)perylene	**0.23**	ug/L	0.11	1	10/01/18 09:20	10/03/18 10:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	10/01/18 09:20	10/03/18 10:54	207-08-9	
Chrysene	ND	ug/L	0.53	1	10/01/18 09:20	10/03/18 10:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	10/01/18 09:20	10/03/18 10:54	53-70-3	
Fluoranthene	ND	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	206-44-0	
Fluorene	ND	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	10/01/18 09:20	10/03/18 10:54	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	91-57-6	
Naphthalene	ND	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	91-20-3	
Phenanthrene	ND	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	85-01-8	
Pyrene	**1.4**	ug/L	1.1	1	10/01/18 09:20	10/03/18 10:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67	%.	10-108	1	10/01/18 09:20	10/03/18 10:54	321-60-8	
p-Terphenyl-d14 (S)	52	%.	10-167	1	10/01/18 09:20	10/03/18 10:54	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/04/18 03:02	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/04/18 03:02	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/04/18 03:02	107-13-1	
Benzene	ND	ug/L	5.0	1		10/04/18 03:02	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/04/18 03:02	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/04/18 03:02	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/18 03:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/18 03:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/18 03:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/04/18 03:02	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/04/18 03:02	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/04/18 03:02	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/04/18 03:02	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/04/18 03:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/18 03:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/18 03:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/18 03:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/18 03:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/18 03:02	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 03:02	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 03:02	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/18 03:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/04/18 03:02	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/04/18 03:02	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-17-GW-2-12 **Lab ID: 50206410012** Collected: 09/25/18 14:00 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 03:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 03:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 03:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/04/18 03:02	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/04/18 03:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/18 03:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/18 03:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/18 03:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 03:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 03:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 03:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/04/18 03:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 03:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/04/18 03:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 03:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 03:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/18 03:02	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/04/18 03:02	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/04/18 03:02	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/04/18 03:02	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/04/18 03:02	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/04/18 03:02	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/04/18 03:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/04/18 03:02	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/18 03:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/04/18 03:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/04/18 03:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/04/18 03:02	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/04/18 03:02	103-65-1	
Styrene	ND	ug/L	5.0	1		10/04/18 03:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 03:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 03:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/18 03:02	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/18 03:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 03:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 03:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/18 03:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/18 03:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/04/18 03:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/18 03:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/04/18 03:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 03:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 03:02	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/04/18 03:02	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/04/18 03:02	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/04/18 03:02	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Sample: SB-17-GW-2-12 **Lab ID: 50206410012** Collected: 09/25/18 14:00 Received: 09/26/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	112	%.	89-116	1		10/04/18 03:02	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	85-111	1		10/04/18 03:02	460-00-4	
Toluene-d8 (S)	90	%.	87-110	1		10/04/18 03:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 463860 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 50206410001, 50206410002, 50206410003

METHOD BLANK: 2140932 Matrix: Solid
Associated Lab Samples: 50206410001, 50206410002, 50206410003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	10/02/18 16:46	

LABORATORY CONTROL SAMPLE: 2140933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.49	0.52	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2140934 2140935

Parameter	Units	50206288002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.46	.5	0.67	0.73	117	118	75-125	9	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 463748 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50206410001, 50206410002, 50206410003

METHOD BLANK: 2140286 Matrix: Solid
Associated Lab Samples: 50206410001, 50206410002, 50206410003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	09/29/18 10:29	
Barium	mg/kg	ND	1.0	09/29/18 10:29	
Cadmium	mg/kg	ND	0.50	09/29/18 10:29	
Chromium	mg/kg	ND	1.0	09/29/18 10:29	
Lead	mg/kg	ND	1.0	09/29/18 10:29	
Selenium	mg/kg	ND	1.0	09/29/18 10:29	
Silver	mg/kg	ND	0.50	09/29/18 10:29	

LABORATORY CONTROL SAMPLE: 2140287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.8	98	80-120	
Barium	mg/kg	50	50.3	101	80-120	
Cadmium	mg/kg	50	48.1	96	80-120	
Chromium	mg/kg	50	48.2	96	80-120	
Lead	mg/kg	50	46.0	92	80-120	
Selenium	mg/kg	50	47.8	96	80-120	
Silver	mg/kg	25	23.2	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2140288 2140289

Parameter	Units	50206486001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	10.1	47	54.1	50.4	58.0	86	89	75-125	14	20	
Barium	mg/kg	70.2	47	54.1	132	127	132	106	75-125	4	20	M0
Cadmium	mg/kg	ND	47	54.1	42.2	47.2	89	86	75-125	11	20	
Chromium	mg/kg	19.3	47	54.1	54.2	60.9	74	77	75-125	12	20	M0
Lead	mg/kg	15.5	47	54.1	41.9	50.1	56	64	75-125	18	20	M3
Selenium	mg/kg	ND	47	54.1	40.2	45.2	85	83	75-125	12	20	
Silver	mg/kg	ND	23.4	27.1	20.5	22.7	87	84	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 464701 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50206410007, 50206410008, 50206410009, 50206410010, 50206410011, 50206410012

METHOD BLANK: 2144950 Matrix: Water
Associated Lab Samples: 50206410007, 50206410008, 50206410009, 50206410010, 50206410011, 50206410012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1,1-Trichloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1-Dichloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1-Dichloroethene	ug/L	ND	5.0	10/03/18 21:56	
1,1-Dichloropropene	ug/L	ND	5.0	10/03/18 21:56	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
1,2,3-Trichloropropane	ug/L	ND	5.0	10/03/18 21:56	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/03/18 21:56	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/03/18 21:56	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
1,2-Dichloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,2-Dichloropropane	ug/L	ND	5.0	10/03/18 21:56	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/03/18 21:56	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
1,3-Dichloropropane	ug/L	ND	5.0	10/03/18 21:56	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
2,2-Dichloropropane	ug/L	ND	5.0	10/03/18 21:56	
2-Butanone (MEK)	ug/L	ND	25.0	10/03/18 21:56	
2-Chlorotoluene	ug/L	ND	5.0	10/03/18 21:56	
2-Hexanone	ug/L	ND	25.0	10/03/18 21:56	
4-Chlorotoluene	ug/L	ND	5.0	10/03/18 21:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/03/18 21:56	
Acetone	ug/L	ND	100	10/03/18 21:56	
Acrolein	ug/L	ND	50.0	10/03/18 21:56	
Acrylonitrile	ug/L	ND	100	10/03/18 21:56	
Benzene	ug/L	ND	5.0	10/03/18 21:56	
Bromobenzene	ug/L	ND	5.0	10/03/18 21:56	
Bromochloromethane	ug/L	ND	5.0	10/03/18 21:56	
Bromodichloromethane	ug/L	ND	5.0	10/03/18 21:56	
Bromoform	ug/L	ND	5.0	10/03/18 21:56	
Bromomethane	ug/L	ND	5.0	10/03/18 21:56	
Carbon disulfide	ug/L	ND	10.0	10/03/18 21:56	
Carbon tetrachloride	ug/L	ND	5.0	10/03/18 21:56	
Chlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
Chloroethane	ug/L	ND	5.0	10/03/18 21:56	
Chloroform	ug/L	ND	5.0	10/03/18 21:56	
Chloromethane	ug/L	ND	5.0	10/03/18 21:56	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/03/18 21:56	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

METHOD BLANK: 2144950 Matrix: Water
Associated Lab Samples: 50206410007, 50206410008, 50206410009, 50206410010, 50206410011, 50206410012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/03/18 21:56	
Dibromochloromethane	ug/L	ND	5.0	10/03/18 21:56	
Dibromomethane	ug/L	ND	5.0	10/03/18 21:56	
Dichlorodifluoromethane	ug/L	ND	5.0	10/03/18 21:56	
Ethyl methacrylate	ug/L	ND	100	10/03/18 21:56	
Ethylbenzene	ug/L	ND	5.0	10/03/18 21:56	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/03/18 21:56	
Iodomethane	ug/L	ND	10.0	10/03/18 21:56	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/03/18 21:56	
Methyl-tert-butyl ether	ug/L	ND	4.0	10/03/18 21:56	
Methylene Chloride	ug/L	ND	5.0	10/03/18 21:56	
n-Butylbenzene	ug/L	ND	5.0	10/03/18 21:56	
n-Hexane	ug/L	ND	5.0	10/03/18 21:56	
n-Propylbenzene	ug/L	ND	5.0	10/03/18 21:56	
Naphthalene	ug/L	ND	5.0	10/03/18 21:56	
p-Isopropyltoluene	ug/L	ND	5.0	10/03/18 21:56	
sec-Butylbenzene	ug/L	ND	5.0	10/03/18 21:56	
Styrene	ug/L	ND	5.0	10/03/18 21:56	
tert-Butylbenzene	ug/L	ND	5.0	10/03/18 21:56	
Tetrachloroethene	ug/L	ND	5.0	10/03/18 21:56	
Toluene	ug/L	ND	5.0	10/03/18 21:56	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/03/18 21:56	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/03/18 21:56	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/03/18 21:56	
Trichloroethene	ug/L	ND	5.0	10/03/18 21:56	
Trichlorofluoromethane	ug/L	ND	5.0	10/03/18 21:56	
Vinyl acetate	ug/L	ND	50.0	10/03/18 21:56	
Vinyl chloride	ug/L	ND	2.0	10/03/18 21:56	
Xylene (Total)	ug/L	ND	10.0	10/03/18 21:56	
4-Bromofluorobenzene (S)	%.	95	85-111	10/03/18 21:56	
Dibromofluoromethane (S)	%.	103	89-116	10/03/18 21:56	
Toluene-d8 (S)	%.	95	87-110	10/03/18 21:56	

LABORATORY CONTROL SAMPLE: 2144951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.9	94	80-120	
1,1,1-Trichloroethane	ug/L	50	48.5	97	74-126	
1,1,2,2-Tetrachloroethane	ug/L	50	41.8	84	73-117	
1,1,2-Trichloroethane	ug/L	50	46.4	93	74-119	
1,1-Dichloroethane	ug/L	50	42.9	86	72-119	
1,1-Dichloroethene	ug/L	50	46.8	94	72-123	
1,1-Dichloropropene	ug/L	50	46.8	94	77-125	
1,2,3-Trichlorobenzene	ug/L	50	47.9	96	74-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

LABORATORY CONTROL SAMPLE: 2144951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	45.4	91	82-121	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	70-125	
1,2,4-Trimethylbenzene	ug/L	50	46.9	94	76-118	
1,2-Dibromoethane (EDB)	ug/L	50	47.9	96	80-120	
1,2-Dichlorobenzene	ug/L	50	46.3	93	77-117	
1,2-Dichloroethane	ug/L	50	43.9	88	69-122	
1,2-Dichloropropane	ug/L	50	45.6	91	75-124	
1,3,5-Trimethylbenzene	ug/L	50	49.0	98	75-117	
1,3-Dichlorobenzene	ug/L	50	46.3	93	76-116	
1,3-Dichloropropane	ug/L	50	46.2	92	82-118	
1,4-Dichlorobenzene	ug/L	50	44.1	88	74-115	
2,2-Dichloropropane	ug/L	50	44.2	88	51-133	
2-Butanone (MEK)	ug/L	250	227	91	72-147	
2-Chlorotoluene	ug/L	50	45.4	91	73-113	
2-Hexanone	ug/L	250	235	94	71-132	
4-Chlorotoluene	ug/L	50	47.9	96	78-118	
4-Methyl-2-pentanone (MIBK)	ug/L	250	238	95	89-128	
Acetone	ug/L	250	195	78	46-170	
Acrolein	ug/L	1000	1040	104	13-200	
Acrylonitrile	ug/L	200	160	80	65-130	
Benzene	ug/L	50	44.4	89	78-117	
Bromobenzene	ug/L	50	43.9	88	66-126	
Bromochloromethane	ug/L	50	39.9	80	76-120	
Bromodichloromethane	ug/L	50	44.5	89	76-120	
Bromoform	ug/L	50	44.2	88	70-124	
Bromomethane	ug/L	50	51.9	104	29-181	
Carbon disulfide	ug/L	50	41.3	83	66-123	
Carbon tetrachloride	ug/L	50	48.1	96	73-132	
Chlorobenzene	ug/L	50	46.9	94	79-112	
Chloroethane	ug/L	50	54.2	108	59-156	
Chloroform	ug/L	50	43.4	87	76-118	
Chloromethane	ug/L	50	58.1	116	45-142	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	75-117	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	77-120	
Dibromochloromethane	ug/L	50	47.0	94	78-123	
Dibromomethane	ug/L	50	46.4	93	78-122	
Dichlorodifluoromethane	ug/L	50	58.3	117	41-168	
Ethyl methacrylate	ug/L	200	204	102	75-128	
Ethylbenzene	ug/L	50	50.7	101	80-118	
Hexachloro-1,3-butadiene	ug/L	50	49.5	99	73-125	
Iodomethane	ug/L	100	95.9	96	35-174	
Isopropylbenzene (Cumene)	ug/L	50	50.4	101	81-117	
Methyl-tert-butyl ether	ug/L	50	46.9	94	71-124	
Methylene Chloride	ug/L	50	45.0	90	59-136	
n-Butylbenzene	ug/L	50	46.2	92	72-118	
n-Hexane	ug/L	50	51.9	104	60-128	
n-Propylbenzene	ug/L	50	47.3	95	75-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

LABORATORY CONTROL SAMPLE: 2144951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	45.3	91	67-126	
p-Isopropyltoluene	ug/L	50	48.6	97	75-115	
sec-Butylbenzene	ug/L	50	47.1	94	76-120	
Styrene	ug/L	50	48.3	97	74-121	
tert-Butylbenzene	ug/L	50	36.6	73	55-109	
Tetrachloroethene	ug/L	50	48.7	97	76-116	
Toluene	ug/L	50	45.2	90	77-115	
trans-1,2-Dichloroethene	ug/L	50	46.1	92	75-121	
trans-1,3-Dichloropropene	ug/L	50	46.5	93	77-121	
trans-1,4-Dichloro-2-butene	ug/L	200	166	83	42-128	
Trichloroethene	ug/L	50	46.5	93	76-120	
Trichlorofluoromethane	ug/L	50	50.3	101	81-141	
Vinyl acetate	ug/L	200	200	100	67-131	
Vinyl chloride	ug/L	50	52.7	105	64-155	
Xylene (Total)	ug/L	150	151	101	78-118	
4-Bromofluorobenzene (S)	%.			102	85-111	
Dibromofluoromethane (S)	%.			94	89-116	
Toluene-d8 (S)	%.			98	87-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144952 2144953

Parameter	Units	50206410007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50.9	50.6	102	101	48-138	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	52.1	53.4	104	107	50-141	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	44.7	47.4	89	95	52-131	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.6	51.0	103	102	53-131	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	46.6	47.7	93	95	51-130	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.1	48.5	98	97	51-138	1	20	
1,1-Dichloropropene	ug/L	ND	50	50	49.9	51.7	100	103	47-143	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	50.6	49.9	101	100	26-143	1	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	47.2	49.8	94	100	60-136	5	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50.3	49.3	101	99	20-142	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	49.5	49.2	99	98	19-148	1	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.0	52.1	104	104	57-134	0	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	48.9	49.8	98	100	30-142	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	47.4	49.1	95	98	46-139	4	20	
1,2-Dichloropropane	ug/L	ND	50	50	50.2	51.8	100	104	54-135	3	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	51.8	51.7	104	103	16-149	0	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	48.7	49.1	97	98	24-142	1	20	
1,3-Dichloropropane	ug/L	ND	50	50	50.8	50.7	102	101	59-134	0	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	46.8	46.7	93	93	24-140	0	20	
2,2-Dichloropropane	ug/L	ND	50	50	50.6	51.7	101	103	24-138	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	236	253	94	101	49-156	7	20	
2-Chlorotoluene	ug/L	ND	50	50	48.4	49.0	97	98	21-143	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144952 2144953

Parameter	Units	50206410007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	250	250	249	261	100	104	53-140	5	20	
4-Chlorotoluene	ug/L	ND	50	50	50.8	50.7	102	101	23-147	0	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	251	266	100	107	50-139	6	20	
Acetone	ug/L	ND	250	250	225	245	85	93	34-160	8	20	
Acrolein	ug/L	ND	1000	1000	1050	1130	105	112	30-178	7	20	
Acrylonitrile	ug/L	ND	200	200	173	184	86	92	54-136	6	20	
Benzene	ug/L	ND	50	50	48.0	48.9	96	98	50-135	2	20	
Bromobenzene	ug/L	ND	50	50	48.7	47.9	97	96	28-147	2	20	
Bromochloromethane	ug/L	ND	50	50	45.1	44.6	90	89	54-138	1	20	
Bromodichloromethane	ug/L	ND	50	50	48.4	50.1	97	100	50-135	3	20	
Bromoform	ug/L	ND	50	50	46.1	48.3	92	97	43-133	5	20	
Bromomethane	ug/L	ND	50	50	53.8	58.5	104	113	15-170	8	20	
Carbon disulfide	ug/L	ND	50	50	45.4	46.7	91	93	36-139	3	20	
Carbon tetrachloride	ug/L	ND	50	50	51.7	52.2	103	104	43-151	1	20	
Chlorobenzene	ug/L	ND	50	50	49.8	48.7	100	97	39-135	2	20	
Chloroethane	ug/L	ND	50	50	60.6	63.4	121	127	42-165	4	20	
Chloroform	ug/L	ND	50	50	47.2	48.8	94	98	52-134	3	20	
Chloromethane	ug/L	ND	50	50	60.9	71.5	122	143	33-146	16	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	50.3	52.4	101	105	48-133	4	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	52.8	52.2	106	104	46-131	1	20	
Dibromochloromethane	ug/L	ND	50	50	51.6	51.6	103	103	50-139	0	20	
Dibromomethane	ug/L	ND	50	50	49.7	51.9	99	104	55-137	4	20	
Dichlorodifluoromethane	ug/L	ND	50	50	60.2	62.5	120	125	29-178	4	20	
Ethyl methacrylate	ug/L	ND	200	200	222	225	111	113	58-136	2	20	
Ethylbenzene	ug/L	ND	50	50	54.5	53.0	109	106	31-147	3	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	49.6	49.7	99	99	10-158	0	20	
Iodomethane	ug/L	ND	100	100	105	111	97	103	17-173	6	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	54.3	53.3	109	107	25-151	2	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	50.2	52.8	100	106	51-142	5	20	
Methylene Chloride	ug/L	ND	50	50	50.2	52.9	100	106	41-142	5	20	
n-Butylbenzene	ug/L	ND	50	50	48.3	47.6	97	95	10-153	2	20	
n-Hexane	ug/L	ND	50	50	54.9	56.2	110	112	35-141	2	20	
n-Propylbenzene	ug/L	ND	50	50	50.4	51.1	101	102	16-153	1	20	
Naphthalene	ug/L	ND	50	50	46.5	48.4	93	97	40-135	4	20	
p-Isopropyltoluene	ug/L	ND	50	50	50.5	50.5	101	101	11-150	0	20	
sec-Butylbenzene	ug/L	ND	50	50	49.8	50.0	100	100	11-157	0	20	
Styrene	ug/L	ND	50	50	52.7	51.5	105	103	28-142	2	20	
tert-Butylbenzene	ug/L	ND	50	50	38.6	38.7	77	77	11-132	0	20	
Tetrachloroethene	ug/L	ND	50	50	51.3	49.8	103	100	34-140	3	20	
Toluene	ug/L	ND	50	50	48.8	48.2	97	96	43-134	1	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	48.8	49.9	98	100	51-135	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	51.3	51.2	103	102	44-133	0	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	193	195	97	98	12-138	1	20	
Trichloroethene	ug/L	ND	50	50	48.9	49.7	98	99	40-141	1	20	
Trichlorofluoromethane	ug/L	ND	50	50	57.0	57.4	114	115	56-162	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144952 2144953

Parameter	Units	50206410007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl acetate	ug/L	ND	200	200	211	224	105	112	11-134	6	20	
Vinyl chloride	ug/L	ND	50	50	54.7	57.1	109	114	46-164	4	20	
Xylene (Total)	ug/L	ND	150	150	162	160	108	107	29-145	2	20	
4-Bromofluorobenzene (S)	%.						103	103	85-111			
Dibromofluoromethane (S)	%.						96	98	89-116			
Toluene-d8 (S)	%.						99	98	87-110			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 464845 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206410001, 50206410002, 50206410003, 50206410004, 50206410005, 50206410006

METHOD BLANK: 2145502 Matrix: Solid
Associated Lab Samples: 50206410001, 50206410002, 50206410003, 50206410004, 50206410005, 50206410006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,1-Dichloroethane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,1-Dichloroethene	ug/kg	ND	5.0	10/04/18 12:22	M5
1,1-Dichloropropene	ug/kg	ND	5.0	10/04/18 12:22	M5
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/04/18 12:22	M5
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
1,2-Dichloroethane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,2-Dichloropropane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
1,3-Dichloropropane	ug/kg	ND	5.0	10/04/18 12:22	M5
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
2,2-Dichloropropane	ug/kg	ND	5.0	10/04/18 12:22	M5
2-Butanone (MEK)	ug/kg	ND	25.0	10/04/18 12:22	M5
2-Chlorotoluene	ug/kg	ND	5.0	10/04/18 12:22	M5
2-Hexanone	ug/kg	ND	100	10/04/18 12:22	M5
4-Chlorotoluene	ug/kg	ND	5.0	10/04/18 12:22	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/04/18 12:22	M5
Acetone	ug/kg	ND	100	10/04/18 12:22	M5
Acrolein	ug/kg	ND	100	10/04/18 12:22	M5
Acrylonitrile	ug/kg	ND	100	10/04/18 12:22	M5
Benzene	ug/kg	ND	5.0	10/04/18 12:22	M5
Bromobenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
Bromochloromethane	ug/kg	ND	5.0	10/04/18 12:22	M5
Bromodichloromethane	ug/kg	ND	5.0	10/04/18 12:22	M5
Bromoform	ug/kg	ND	5.0	10/04/18 12:22	M5
Bromomethane	ug/kg	ND	5.0	10/04/18 12:22	M5
Carbon disulfide	ug/kg	ND	10.0	10/04/18 12:22	M5
Carbon tetrachloride	ug/kg	ND	5.0	10/04/18 12:22	M5
Chlorobenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
Chloroethane	ug/kg	ND	5.0	10/04/18 12:22	M5
Chloroform	ug/kg	ND	5.0	10/04/18 12:22	M5
Chloromethane	ug/kg	ND	5.0	10/04/18 12:22	M5
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/04/18 12:22	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

METHOD BLANK: 2145502 Matrix: Solid
Associated Lab Samples: 50206410001, 50206410002, 50206410003, 50206410004, 50206410005, 50206410006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/04/18 12:22	M5
Dibromochloromethane	ug/kg	ND	5.0	10/04/18 12:22	M5
Dibromomethane	ug/kg	ND	5.0	10/04/18 12:22	M5
Dichlorodifluoromethane	ug/kg	ND	5.0	10/04/18 12:22	M5
Ethyl methacrylate	ug/kg	ND	100	10/04/18 12:22	M5
Ethylbenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/04/18 12:22	M5
Iodomethane	ug/kg	ND	100	10/04/18 12:22	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/04/18 12:22	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/04/18 12:22	M5
Methylene Chloride	ug/kg	ND	20.0	10/04/18 12:22	M5
n-Butylbenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
n-Hexane	ug/kg	ND	5.0	10/04/18 12:22	M5
n-Propylbenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
Naphthalene	ug/kg	ND	5.0	10/04/18 12:22	M5
p-Isopropyltoluene	ug/kg	ND	5.0	10/04/18 12:22	M5
sec-Butylbenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
Styrene	ug/kg	ND	5.0	10/04/18 12:22	M5
tert-Butylbenzene	ug/kg	ND	5.0	10/04/18 12:22	M5
Tetrachloroethene	ug/kg	ND	5.0	10/04/18 12:22	M5
Toluene	ug/kg	ND	5.0	10/04/18 12:22	M5
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/04/18 12:22	M5
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/04/18 12:22	M5
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/04/18 12:22	M5
Trichloroethene	ug/kg	ND	5.0	10/04/18 12:22	M5
Trichlorofluoromethane	ug/kg	ND	5.0	10/04/18 12:22	M5
Vinyl acetate	ug/kg	ND	100	10/04/18 12:22	M5
Vinyl chloride	ug/kg	ND	5.0	10/04/18 12:22	M5
Xylene (Total)	ug/kg	ND	10.0	10/04/18 12:22	M5
4-Bromofluorobenzene (S)	%.	92	57-130	10/04/18 12:22	M5
Dibromofluoromethane (S)	%.	104	80-127	10/04/18 12:22	M5
Toluene-d8 (S)	%.	92	72-136	10/04/18 12:22	M5

LABORATORY CONTROL SAMPLE: 2145503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	48.8	98	80-119	M5
1,1,1-Trichloroethane	ug/kg	50	50.1	100	71-123	M5
1,1,2,2-Tetrachloroethane	ug/kg	50	43.4	87	74-121	M5
1,1,2-Trichloroethane	ug/kg	50	47.3	95	76-115	M5
1,1-Dichloroethane	ug/kg	50	44.3	89	70-117	M5
1,1-Dichloroethene	ug/kg	50	49.5	99	71-125	M5
1,1-Dichloropropene	ug/kg	50	47.8	96	72-122	M5
1,2,3-Trichlorobenzene	ug/kg	50	49.5	99	70-115	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

LABORATORY CONTROL SAMPLE: 2145503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	46.3	93	80-125	M5
1,2,4-Trichlorobenzene	ug/kg	50	51.6	103	63-119	M5
1,2,4-Trimethylbenzene	ug/kg	50	50.1	100	73-111	M5
1,2-Dibromoethane (EDB)	ug/kg	50	50.6	101	82-120	M5
1,2-Dichlorobenzene	ug/kg	50	48.8	98	79-110	M5
1,2-Dichloroethane	ug/kg	50	46.1	92	69-119	M5
1,2-Dichloropropane	ug/kg	50	49.2	98	76-120	M5
1,3,5-Trimethylbenzene	ug/kg	50	49.7	99	74-108	M5
1,3-Dichlorobenzene	ug/kg	50	49.4	99	74-109	M5
1,3-Dichloropropane	ug/kg	50	48.2	96	84-119	M5
1,4-Dichlorobenzene	ug/kg	50	47.4	95	74-109	M5
2,2-Dichloropropane	ug/kg	50	48.2	96	58-125	M5
2-Butanone (MEK)	ug/kg	250	264	105	57-183	M5
2-Chlorotoluene	ug/kg	50	49.2	98	74-107	M5
2-Hexanone	ug/kg	250	243	97	56-156	M5
4-Chlorotoluene	ug/kg	50	51.2	102	76-113	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	250	237	95	67-128	M5
Acetone	ug/kg	250	311	125	39-199	M5
Acrolein	ug/kg	1000	1250	125	24-200	M5
Acrylonitrile	ug/kg	200	165	83	70-124	M5
Benzene	ug/kg	50	47.2	94	77-117	M5
Bromobenzene	ug/kg	50	44.9	90	74-110	M5
Bromochloromethane	ug/kg	50	44.6	89	68-122	M5
Bromodichloromethane	ug/kg	50	46.3	93	76-115	M5
Bromoform	ug/kg	50	45.5	91	69-125	M5
Bromomethane	ug/kg	50	54.7	109	30-174	M5
Carbon disulfide	ug/kg	50	46.4	93	64-122	M5
Carbon tetrachloride	ug/kg	50	49.5	99	70-126	M5
Chlorobenzene	ug/kg	50	46.7	93	77-111	M5
Chloroethane	ug/kg	50	50.6	101	50-149	M5
Chloroform	ug/kg	50	45.1	90	74-114	M5
Chloromethane	ug/kg	50	44.4	89	51-127	M5
cis-1,2-Dichloroethene	ug/kg	50	50.3	101	74-118	M5
cis-1,3-Dichloropropene	ug/kg	50	48.9	98	77-119	M5
Dibromochloromethane	ug/kg	50	49.0	98	82-120	M5
Dibromomethane	ug/kg	50	46.9	94	79-118	M5
Dichlorodifluoromethane	ug/kg	50	59.4	119	39-160	M5
Ethyl methacrylate	ug/kg	200	224	112	75-125	M5
Ethylbenzene	ug/kg	50	52.3	105	73-114	M5
Hexachloro-1,3-butadiene	ug/kg	50	49.5	99	66-119	M5
Iodomethane	ug/kg	100	118	118	72-140	M5
Isopropylbenzene (Cumene)	ug/kg	50	51.2	102	78-113	M5
Methyl-tert-butyl ether	ug/kg	50	51.7	103	75-119	M5
Methylene Chloride	ug/kg	50	51.7	103	45-153	M5
n-Butylbenzene	ug/kg	50	47.7	95	66-111	M5
n-Hexane	ug/kg	50	48.1	96	57-117	M5
n-Propylbenzene	ug/kg	50	50.1	100	74-112	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

LABORATORY CONTROL SAMPLE: 2145503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	55.3	111	70-115	M5
p-Isopropyltoluene	ug/kg	50	49.8	100	72-108	M5
sec-Butylbenzene	ug/kg	50	49.9	100	75-113	M5
Styrene	ug/kg	50	49.2	98	73-109	M5
tert-Butylbenzene	ug/kg	50	39.6	79	56-105	M5
Tetrachloroethene	ug/kg	50	49.0	98	72-117	M5
Toluene	ug/kg	50	46.0	92	77-111	M5
trans-1,2-Dichloroethene	ug/kg	50	47.0	94	73-121	M5
trans-1,3-Dichloropropene	ug/kg	50	49.2	98	76-121	M5
trans-1,4-Dichloro-2-butene	ug/kg	200	225	113	57-123	M5
Trichloroethene	ug/kg	50	51.0	102	73-119	M5
Trichlorofluoromethane	ug/kg	50	50.2	100	72-147	M5
Vinyl acetate	ug/kg	200	218	109	59-139	M5
Vinyl chloride	ug/kg	50	54.3	109	57-160	M5
Xylene (Total)	ug/kg	150	158	105	74-111	M5
4-Bromofluorobenzene (S)	%.			98	57-130	M5
Dibromofluoromethane (S)	%.			94	80-127	M5
Toluene-d8 (S)	%.			97	72-136	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 464151 Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50206410007, 50206410008, 50206410009, 50206410010

METHOD BLANK: 2142689 Matrix: Water
Associated Lab Samples: 50206410007, 50206410008, 50206410009, 50206410010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	10/03/18 11:13	N2
2-Methylnaphthalene	ug/L	ND	1.0	10/03/18 11:13	
Acenaphthene	ug/L	ND	1.0	10/03/18 11:13	
Acenaphthylene	ug/L	ND	1.0	10/03/18 11:13	
Anthracene	ug/L	ND	0.10	10/03/18 11:13	
Benzo(a)anthracene	ug/L	ND	0.10	10/03/18 11:13	
Benzo(a)pyrene	ug/L	ND	0.10	10/03/18 11:13	
Benzo(b)fluoranthene	ug/L	ND	0.10	10/03/18 11:13	
Benzo(g,h,i)perylene	ug/L	ND	0.10	10/03/18 11:13	
Benzo(k)fluoranthene	ug/L	ND	0.10	10/03/18 11:13	
Chrysene	ug/L	ND	0.50	10/03/18 11:13	
Dibenz(a,h)anthracene	ug/L	ND	0.10	10/03/18 11:13	
Fluoranthene	ug/L	ND	1.0	10/03/18 11:13	
Fluorene	ug/L	ND	1.0	10/03/18 11:13	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	10/03/18 11:13	
Naphthalene	ug/L	ND	1.0	10/03/18 11:13	
Phenanthrene	ug/L	ND	1.0	10/03/18 11:13	
Pyrene	ug/L	ND	1.0	10/03/18 11:13	
2-Fluorobiphenyl (S)	%.	16	10-108	10/03/18 11:13	
p-Terphenyl-d14 (S)	%.	23	10-167	10/03/18 11:13	

LABORATORY CONTROL SAMPLE: 2142690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	5.5	55	23-93	N2
2-Methylnaphthalene	ug/L	10	5.2	52	23-102	
Acenaphthene	ug/L	10	6.1	61	33-106	
Acenaphthylene	ug/L	10	8.1	81	35-119	
Anthracene	ug/L	10	6.2	62	28-124	
Benzo(a)anthracene	ug/L	10	9.5	95	58-140	
Benzo(a)pyrene	ug/L	10	9.3	93	53-118	
Benzo(b)fluoranthene	ug/L	10	8.6	86	55-133	
Benzo(g,h,i)perylene	ug/L	10	9.6	96	46-105	
Benzo(k)fluoranthene	ug/L	10	10.3	103	49-115	
Chrysene	ug/L	10	8.1	81	50-125	
Dibenz(a,h)anthracene	ug/L	10	9.8	98	48-112	
Fluoranthene	ug/L	10	8.4	84	53-128	
Fluorene	ug/L	10	6.8	68	39-123	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.8	98	49-109	
Naphthalene	ug/L	10	5.6	56	26-95	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

LABORATORY CONTROL SAMPLE: 2142690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	7.2	72	48-124	
Pyrene	ug/L	10	8.4	84	54-131	
2-Fluorobiphenyl (S)	%.			57	10-108	
p-Terphenyl-d14 (S)	%.			86	10-167	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 464175
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM LVE
Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50206410011, 50206410012

METHOD BLANK: 2142769
Matrix: Water
Associated Lab Samples: 50206410011, 50206410012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	10/03/18 09:19	N2
2-Methylnaphthalene	ug/L	ND	1.0	10/03/18 09:19	
Acenaphthene	ug/L	ND	1.0	10/03/18 09:19	
Acenaphthylene	ug/L	ND	1.0	10/03/18 09:19	
Anthracene	ug/L	ND	0.10	10/03/18 09:19	
Benzo(a)anthracene	ug/L	ND	0.10	10/03/18 09:19	
Benzo(a)pyrene	ug/L	ND	0.10	10/03/18 09:19	
Benzo(b)fluoranthene	ug/L	ND	0.10	10/03/18 09:19	
Benzo(g,h,i)perylene	ug/L	ND	0.10	10/03/18 09:19	
Benzo(k)fluoranthene	ug/L	ND	0.10	10/03/18 09:19	
Chrysene	ug/L	ND	0.50	10/03/18 09:19	
Dibenz(a,h)anthracene	ug/L	ND	0.10	10/03/18 09:19	
Fluoranthene	ug/L	ND	1.0	10/03/18 09:19	
Fluorene	ug/L	ND	1.0	10/03/18 09:19	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	10/03/18 09:19	
Naphthalene	ug/L	ND	1.0	10/03/18 09:19	
Phenanthrene	ug/L	ND	1.0	10/03/18 09:19	
Pyrene	ug/L	ND	1.0	10/03/18 09:19	
2-Fluorobiphenyl (S)	%.	43	10-108	10/03/18 09:19	
p-Terphenyl-d14 (S)	%.	61	10-167	10/03/18 09:19	

LABORATORY CONTROL SAMPLE: 2142770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.9	49	23-93	N2
2-Methylnaphthalene	ug/L	10	4.6	46	23-102	
Acenaphthene	ug/L	10	5.2	52	33-106	
Acenaphthylene	ug/L	10	6.4	64	35-119	
Anthracene	ug/L	10	5.6	56	28-124	
Benzo(a)anthracene	ug/L	10	7.1	71	58-140	
Benzo(a)pyrene	ug/L	10	8.1	81	53-118	
Benzo(b)fluoranthene	ug/L	10	8.0	80	55-133	
Benzo(g,h,i)perylene	ug/L	10	8.2	82	46-105	
Benzo(k)fluoranthene	ug/L	10	8.2	82	49-115	
Chrysene	ug/L	10	6.9	69	50-125	
Dibenz(a,h)anthracene	ug/L	10	8.4	84	48-112	
Fluoranthene	ug/L	10	7.3	73	53-128	
Fluorene	ug/L	10	5.9	59	39-123	
Indeno(1,2,3-cd)pyrene	ug/L	10	8.1	81	49-109	
Naphthalene	ug/L	10	4.7	47	26-95	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

LABORATORY CONTROL SAMPLE: 2142770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	6.6	66	48-124	
Pyrene	ug/L	10	7.1	71	54-131	
2-Fluorobiphenyl (S)	%.			42	10-108	
p-Terphenyl-d14 (S)	%.			58	10-167	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 464316 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206410001, 50206410002, 50206410003, 50206410004, 50206410005, 50206410006

METHOD BLANK: 2143251 Matrix: Solid
Associated Lab Samples: 50206410001, 50206410002, 50206410003, 50206410004, 50206410005, 50206410006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/02/18 17:46	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/02/18 17:46	
Acenaphthene	ug/kg	ND	5.0	10/02/18 17:46	
Acenaphthylene	ug/kg	ND	5.0	10/02/18 17:46	
Anthracene	ug/kg	ND	5.0	10/02/18 17:46	
Benzo(a)anthracene	ug/kg	ND	5.0	10/02/18 17:46	
Benzo(a)pyrene	ug/kg	ND	5.0	10/02/18 17:46	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/02/18 17:46	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/02/18 17:46	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/02/18 17:46	
Chrysene	ug/kg	ND	5.0	10/02/18 17:46	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/02/18 17:46	
Fluoranthene	ug/kg	ND	5.0	10/02/18 17:46	
Fluorene	ug/kg	ND	5.0	10/02/18 17:46	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/02/18 17:46	
Naphthalene	ug/kg	ND	5.0	10/02/18 17:46	
Phenanthrene	ug/kg	ND	5.0	10/02/18 17:46	
Pyrene	ug/kg	ND	5.0	10/02/18 17:46	
2-Fluorobiphenyl (S)	%.	72	40-107	10/02/18 17:46	
p-Terphenyl-d14 (S)	%.	89	35-115	10/02/18 17:46	

LABORATORY CONTROL SAMPLE: 2143252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	331	293	88	49-102	N2
2-Methylnaphthalene	ug/kg	331	288	87	50-104	
Acenaphthene	ug/kg	331	295	89	59-119	
Acenaphthylene	ug/kg	331	301	91	61-122	
Anthracene	ug/kg	331	191	58	57-111	
Benzo(a)anthracene	ug/kg	331	305	92	57-121	
Benzo(a)pyrene	ug/kg	331	360	109	55-130	
Benzo(b)fluoranthene	ug/kg	331	325	98	53-125	
Benzo(g,h,i)perylene	ug/kg	331	336	101	56-124	
Benzo(k)fluoranthene	ug/kg	331	372	112	55-137	
Chrysene	ug/kg	331	310	94	60-134	
Dibenz(a,h)anthracene	ug/kg	331	373	113	60-122	
Fluoranthene	ug/kg	331	321	97	60-117	
Fluorene	ug/kg	331	312	94	55-114	
Indeno(1,2,3-cd)pyrene	ug/kg	331	359	108	57-124	
Naphthalene	ug/kg	331	281	85	54-107	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

LABORATORY CONTROL SAMPLE: 2143252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	331	261	79	60-115	
Pyrene	ug/kg	331	285	86	61-135	
2-Fluorobiphenyl (S)	%.			80	40-107	
p-Terphenyl-d14 (S)	%.			82	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2143253 2143254

Parameter	Units	50206474022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	386	386	343	317	89	82	20-119	8	20	N2
2-Methylnaphthalene	ug/kg	ND	386	386	336	314	87	81	25-114	7	20	
Acenaphthene	ug/kg	ND	386	386	346	315	89	82	34-124	9	20	
Acenaphthylene	ug/kg	ND	386	386	342	323	88	83	37-128	6	20	
Anthracene	ug/kg	ND	386	386	223	190	58	49	25-118	16	20	
Benzo(a)anthracene	ug/kg	ND	386	386	365	288	94	75	16-129	23	20	R1
Benzo(a)pyrene	ug/kg	ND	386	386	401	336	104	87	19-131	18	20	
Benzo(b)fluoranthene	ug/kg	ND	386	386	337	246	87	64	15-127	32	20	R1
Benzo(g,h,i)perylene	ug/kg	ND	386	386	368	279	95	72	15-128	28	20	R1
Benzo(k)fluoranthene	ug/kg	ND	386	386	453	376	117	97	14-142	19	20	
Chrysene	ug/kg	ND	386	386	356	309	92	80	19-141	14	20	
Dibenz(a,h)anthracene	ug/kg	ND	386	386	416	349	108	90	18-133	17	20	
Fluoranthene	ug/kg	ND	386	386	377	311	98	81	25-125	19	20	
Fluorene	ug/kg	ND	386	386	356	326	92	84	32-118	9	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	386	386	400	305	103	79	11-134	27	20	R1
Naphthalene	ug/kg	10	386	386	334	325	84	82	13-137	3	20	
Phenanthrene	ug/kg	ND	386	386	314	273	81	71	21-130	14	20	
Pyrene	ug/kg	ND	386	386	335	280	87	72	20-143	18	20	
2-Fluorobiphenyl (S)	%.						78	71	40-107			
p-Terphenyl-d14 (S)	%.						81	67	35-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 463893 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206410001, 50206410002, 50206410003

SAMPLE DUPLICATE: 2141033

Parameter	Units	50206372004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.8	14.8	0	5	

SAMPLE DUPLICATE: 2141034

Parameter	Units	50206372008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.0	13.3	5	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

QC Batch: 463894 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206410004, 50206410005, 50206410006

SAMPLE DUPLICATE: 2141339

Parameter	Units	50206413001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.7	4.2	12	5	R1

SAMPLE DUPLICATE: 2141340

Parameter	Units	50206413009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.3	6.4	13	5	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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-I	Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 464175

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 464845

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IU Health Bloomington Hospital
Pace Project No.: 50206410

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50206410001	**SB-10-10-12**	EPA 3050	463748	EPA 6010	464092
50206410002	**SB-11-6-8**	EPA 3050	463748	EPA 6010	464092
50206410003	**SB-12-6-8**	EPA 3050	463748	EPA 6010	464092
50206410001	**SB-10-10-12**	EPA 7471	463860	EPA 7471	464451
50206410002	**SB-11-6-8**	EPA 7471	463860	EPA 7471	464451
50206410003	**SB-12-6-8**	EPA 7471	463860	EPA 7471	464451
50206410007	**SB-10-GW-4-14**	EPA 3510	464151	EPA 8270 by SIM LVE	464274
50206410008	**SB-11-GW-2-12**	EPA 3510	464151	EPA 8270 by SIM LVE	464274
50206410009	**SB-12-GW-0-10**	EPA 3510	464151	EPA 8270 by SIM LVE	464274
50206410010	**SB-15-GW-0-10**	EPA 3510	464151	EPA 8270 by SIM LVE	464274
50206410011	**SB-16-GW-6-11**	EPA 3510	464175	EPA 8270 by SIM LVE	464600
50206410012	**SB-17-GW-2-12**	EPA 3510	464175	EPA 8270 by SIM LVE	464600
50206410001	**SB-10-10-12**	EPA 3546	464316	EPA 8270 by SIM	464471
50206410002	**SB-11-6-8**	EPA 3546	464316	EPA 8270 by SIM	464471
50206410003	**SB-12-6-8**	EPA 3546	464316	EPA 8270 by SIM	464471
50206410004	**SB-15-2-4**	EPA 3546	464316	EPA 8270 by SIM	464471
50206410005	**SB-16-6-8**	EPA 3546	464316	EPA 8270 by SIM	464471
50206410006	**SB-17-6-8**	EPA 3546	464316	EPA 8270 by SIM	464471
50206410007	**SB-10-GW-4-14**	EPA 8260	464701		
50206410008	**SB-11-GW-2-12**	EPA 8260	464701		
50206410009	**SB-12-GW-0-10**	EPA 8260	464701		
50206410010	**SB-15-GW-0-10**	EPA 8260	464701		
50206410011	**SB-16-GW-6-11**	EPA 8260	464701		
50206410012	**SB-17-GW-2-12**	EPA 8260	464701		
50206410001	**SB-10-10-12**	EPA 8260	464845		
50206410002	**SB-11-6-8**	EPA 8260	464845		
50206410003	**SB-12-6-8**	EPA 8260	464845		
50206410004	**SB-15-2-4**	EPA 8260	464845		
50206410005	**SB-16-6-8**	EPA 8260	464845		
50206410006	**SB-17-6-8**	EPA 8260	464845		
50206410001	**SB-10-10-12**	SM 2540G	463893		
50206410002	**SB-11-6-8**	SM 2540G	463893		
50206410003	**SB-12-6-8**	SM 2540G	463893		
50206410004	**SB-15-2-4**	SM 2540G	463894		
50206410005	**SB-16-6-8**	SM 2540G	463894		
50206410006	**SB-17-6-8**	SM 2540G	463894		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: | of

Section A Required Client Information:

Company: August Mack Environmental, Inc.
Address: 1302 N. Meridian St., Suite 300, Indianapolis, IN 46202
Email To: Kara.Seymour@augustmack.com
Phone: (317)916-8000 Fax: (317)916-8001
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kara Seymour Kseymour@augustmack.com
Copy To: Tyler Tschiedrich TTschiedrich@augustmack.com
Purchase Order No.:
Project Name: Indiana University Health Bloomington Hospital Campus
Project Number: JS1901.740

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IN

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC	PAHs	RCRA 8 Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-10-10-12	SL	G			9.25.18	1210		6	3						1	2	X	X	X		001
2	SB-10-GW-4-14	WT	G			9.25.18	1215		5	2			3					X	X			007
3	SB-11-6-8	SL	G			9.25.18	1220		5	2						1	2	X	X	X		002
4	SB-11-GW-2-12	WT	G			9.25.18	1235		5	2			3					X	X			008
5	SB-12-6-8	SL	G			9.25.18	1635		6	3						1	2	X	X	X		003
6	SB-12-GW-0-10	WT	G			9.25.18	1600		5	2			3					X	X			009
7	SB-15-2-4	SL	G			9.25.18	1550		5	2						1	2	X	X	X		004
8	SB-15-GW-0-10	WT	G			9.25.18	1505		5	2			3					X	X			010
9	SB-16-6-8	SL	G			9.25.18	1541		5	2						1	2	X	X			005
10	SB-16-GW-6-11	WT	G			9.25.18	1435		5	2			3					X	X			011
11	SB-17-6-8	SL	G			9.25.18	1415		5	2						1	2	X	X			006
12	SB-17-GW-2-12	WT	G			9.25.18	1400		5	2			3					X	X			012

KS 9.25.18

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
RCRA8 Metals + PAHs are both in 1 4oz glass jar for SB-11-6-8	[signature]	9/26/18	0955	[signature] Pace	9/26/18	955
SB-15-2-4 only has VOCs + PAHs (do NOT run for RCRA8 Metals)	[signature] Pace	9/26/18	1210	Jason Hunt	9-26	1210

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kara Seymour
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/25/18

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

Pace Analytical

SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50206410

Date/Time and Initials of person examining contents: JHA-28 1255

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals Intact:** ☐ Yes ☒ No

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A (B) C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 3.2/3.2 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

All discrepancies will be written out in the comments section below.

	Yes	No
Are samples from West Virginia? Document any containers out of temp.		X
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X
Chain of Custody Present:	X	
Chain of Custody Filled Out:	X	
Short Hold Time Analysis (<72hr)?: TC **Analysis:**	X	
Time 5035A TC placed in Freezer or Short Holds To Lab: (B) 10		
Rush TAT Requested:		X
Containers Intact?:	X	
Sample Labels Match COC?: Except TCs, which only require sample ID	X	

	Yes	No	N/A
All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted. Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			X
Dissolved Metals field filtered?:			X
Headspace Wisconsin Sulfide			X
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Headspace in VOA Vials (>6mm):		X	X JH 07-26
Trip Blank Present?:		X	
Trip Blank Custody Seals?:		X	

Comments:

Sample Container Count

WO# : 50206410

CLIENT: August mack

COC PAGE 1 of 1

COC ID#

Project # 50206410

Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Kit R	Matrix (Soil/W Aqueou	pH <2	pH >9	pH>12
1								2										4	Sc			
2	3	2																	Wt			
3								1										4	Sc			
4	3	2																	Wt			
5								2										4	Sc			
6	3	2																	Wt			
7								1										4	Sc			
8	3	2																	Wt			
9								1										4	Sc			
10	3	2																	Wt			
11								T										4	Sc			
12	3	2																	Wt			

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 11, 2018

Tyler Zschiedrich
August Mack Environmental Consultants
1302 N Meridian Street
Suite 300
Indianapolis, IN 46202

RE: Project: Indiana University Health
Pace Project No.: 50206666

Dear Tyler Zschiedrich:
Enclosed are the analytical results for sample(s) received by the laboratory between September 28, 2018 and October 02, 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,

Kelly Jones
kelly.jones@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Andy Tennyson, August Mack Environmental Consultants

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Indiana University Health
Pace Project No.: 50206666

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355-18-12
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

SAMPLE SUMMARY

Project: Indiana University Health
Pace Project No.: 50206666

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50206666001	**SB-23-2-4**	Solid	09/26/18 12:35	09/28/18 12:55
50206666002	**SB-23-8-10**	Solid	09/26/18 12:40	09/28/18 12:55
50206666003	**SB-24-4-6**	Solid	09/26/18 11:30	09/28/18 12:55
50206666004	**SB-24-22-24**	Solid	09/26/18 11:40	09/28/18 12:55
50206666005	**SB-19-2-4**	Solid	09/26/18 14:30	09/28/18 12:55
50206666007	**SB-20-2-4**	Solid	09/26/18 15:35	09/28/18 12:55
50206666008	**SB-21-2-4**	Solid	09/26/18 16:15	09/28/18 12:55
50206666010	**SB-22-10-12**	Solid	09/26/18 18:40	09/28/18 12:55
50206666011	**SB-18-6-8**	Solid	09/26/18 18:20	09/28/18 12:55
50206817002	**SB-22-10-12**	Solid	09/26/18 18:40	10/02/18 12:10
50206817003	**SB-23-2-4**	Solid	09/26/18 12:35	10/02/18 12:10
50206817004	**SB-19-2-4**	Solid	09/26/18 14:30	10/02/18 12:10
50206817005	**SB-21-2-4**	Solid	09/26/18 16:15	10/02/18 12:10
50206817006	**SB-20-2-4**	Solid	09/26/18 15:35	10/02/18 12:10
50206817007	**SB-24-22-24**	Solid	09/26/18 11:40	10/02/18 12:10
50206817008	**SB-24-4-6**	Solid	09/26/18 11:30	10/02/18 12:10
50206817009	**SB-18-6-8**	Solid	09/26/18 18:20	10/02/18 12:10
50206817010	**SB-23-8-10**	Solid	09/26/18 12:40	10/02/18 12:10
50206817011	**SB-22-GW-4-14**	Water	09/26/18 17:25	10/02/18 12:10
50206817012	**SB-18-GW-1-11**	Water	09/26/18 18:10	10/02/18 12:10
50206817013	**SB-20-GW-0-10**	Water	09/26/18 18:30	10/02/18 12:10

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Indiana University Health
Pace Project No.: 50206666

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50206666001	**SB-23-2-4**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206666002	**SB-23-8-10**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206666003	**SB-24-4-6**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206666004	**SB-24-22-24**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206666005	**SB-19-2-4**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206666007	**SB-20-2-4**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206666008	**SB-21-2-4**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206666010	**SB-22-10-12**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206666011	**SB-18-6-8**	EPA 8260	RSW	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817002	**SB-22-10-12**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817003	**SB-23-2-4**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817004	**SB-19-2-4**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817005	**SB-21-2-4**	EPA 6010	KJE	7	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817006	**SB-20-2-4**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817007	**SB-24-22-24**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817008	**SB-24-4-6**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817009	**SB-18-6-8**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I
50206817010	**SB-23-8-10**	EPA 8270 by SIM	JCM	20	PASI-I

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Indiana University Health
Pace Project No.: 50206666

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540G	CDR	1	PASI-I
50206817011	**SB-22-GW-4-14**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50206817012	**SB-18-GW-1-11**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50206817013	**SB-20-GW-0-10**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: Indiana University Health
Pace Project No.: 50206666

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206666001	**SB-23-2-4**					
SM 2540G	Percent Moisture	19.7	%	0.10	10/01/18 11:32	
50206666002	**SB-23-8-10**					
SM 2540G	Percent Moisture	31.1	%	0.10	10/01/18 11:32	
50206666003	**SB-24-4-6**					
SM 2540G	Percent Moisture	19.5	%	0.10	10/01/18 11:32	
50206666004	**SB-24-22-24**					
SM 2540G	Percent Moisture	33.7	%	0.10	10/01/18 11:32	
50206666005	**SB-19-2-4**					
SM 2540G	Percent Moisture	5.1	%	0.10	10/01/18 11:32	
50206666007	**SB-20-2-4**					
EPA 8260	Benzene	859	ug/kg	280	10/05/18 00:28	M5
EPA 8260	n-Butylbenzene	6120	ug/kg	280	10/05/18 00:28	M5
EPA 8260	sec-Butylbenzene	2260	ug/kg	280	10/05/18 00:28	M5
EPA 8260	Ethylbenzene	2380	ug/kg	280	10/05/18 00:28	M5
EPA 8260	n-Hexane	3240	ug/kg	280	10/05/18 00:28	M5
EPA 8260	Isopropylbenzene (Cumene)	2500	ug/kg	280	10/05/18 00:28	M5
EPA 8260	p-Isopropyltoluene	1390	ug/kg	280	10/05/18 00:28	M5
EPA 8260	Naphthalene	5300	ug/kg	280	10/05/18 00:28	M5
EPA 8260	n-Propylbenzene	6510	ug/kg	280	10/05/18 00:28	M5
EPA 8260	1,2,4-Trimethylbenzene	6790	ug/kg	280	10/05/18 00:28	M5
EPA 8260	1,3,5-Trimethylbenzene	7670	ug/kg	280	10/05/18 00:28	M5
EPA 8260	Xylene (Total)	1040	ug/kg	560	10/05/18 00:28	M5
SM 2540G	Percent Moisture	18.5	%	0.10	10/01/18 11:32	
50206666008	**SB-21-2-4**					
SM 2540G	Percent Moisture	21.2	%	0.10	10/01/18 11:32	
50206666010	**SB-22-10-12**					
EPA 8260	sec-Butylbenzene	75.7	ug/kg	5.2	10/03/18 19:51	
EPA 8260	n-Propylbenzene	34.4	ug/kg	5.2	10/03/18 19:51	
SM 2540G	Percent Moisture	23.0	%	0.10	10/01/18 11:33	
50206666011	**SB-18-6-8**					
SM 2540G	Percent Moisture	24.9	%	0.10	10/01/18 11:33	
50206817002	**SB-22-10-12**					
EPA 8270 by SIM	1-Methylnaphthalene	16.9	ug/kg	6.2	10/08/18 19:03	N2
EPA 8270 by SIM	2-Methylnaphthalene	10.2	ug/kg	6.2	10/08/18 19:03	
EPA 8270 by SIM	Naphthalene	11.3	ug/kg	6.2	10/08/18 19:03	
SM 2540G	Percent Moisture	20.7	%	0.10	10/03/18 10:05	
50206817003	**SB-23-2-4**					
EPA 8270 by SIM	Naphthalene	12.0	ug/kg	6.3	10/08/18 19:21	
SM 2540G	Percent Moisture	22.3	%	0.10	10/03/18 10:05	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

SUMMARY OF DETECTION

Project: Indiana University Health
Pace Project No.: 50206666

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206817004	**SB-19-2-4**					
EPA 8270 by SIM	Acenaphthene	8.8	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Anthracene	9.1	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Benzo(a)anthracene	5.8	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Benzo(a)pyrene	9.4	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Benzo(b)fluoranthene	11.8	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Benzo(g,h,i)perylene	10.7	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Benzo(k)fluoranthene	9.5	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Chrysene	9.7	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Fluoranthene	12.2	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Fluorene	14.1	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	8.6	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	1-Methylnaphthalene	19.7	ug/kg	5.2	10/08/18 19:38	N2
EPA 8270 by SIM	2-Methylnaphthalene	18.5	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Naphthalene	11.8	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Phenanthrene	28.3	ug/kg	5.2	10/08/18 19:38	
EPA 8270 by SIM	Pyrene	12.5	ug/kg	5.2	10/08/18 19:38	
SM 2540G	Percent Moisture	4.9	%	0.10	10/03/18 10:05	
50206817005	**SB-21-2-4**					
EPA 6010	Arsenic	8.5	mg/kg	1.3	10/06/18 10:50	
EPA 6010	Barium	95.7	mg/kg	1.3	10/06/18 10:50	
EPA 6010	Chromium	46.3	mg/kg	1.3	10/06/18 10:50	P8
EPA 6010	Lead	16.3	mg/kg	1.3	10/06/18 10:50	
EPA 8270 by SIM	Fluoranthene	6.8	ug/kg	6.5	10/08/18 19:55	
EPA 8270 by SIM	1-Methylnaphthalene	8.5	ug/kg	6.5	10/08/18 19:55	N2
EPA 8270 by SIM	2-Methylnaphthalene	9.1	ug/kg	6.5	10/08/18 19:55	
EPA 8270 by SIM	Phenanthrene	8.5	ug/kg	6.5	10/08/18 19:55	
SM 2540G	Percent Moisture	23.3	%	0.10	10/03/18 10:05	
50206817006	**SB-20-2-4**					
EPA 8270 by SIM	Acenaphthene	3060	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Acenaphthylene	1020	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Benzo(a)anthracene	84.8	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Benzo(a)pyrene	79.9	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Benzo(b)fluoranthene	152	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Benzo(g,h,i)perylene	80.0	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Benzo(k)fluoranthene	85.8	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Chrysene	256	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Fluoranthene	783	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Fluorene	5570	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	67.4	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	1-Methylnaphthalene	33200	ug/kg	281	10/09/18 21:41	N2
EPA 8270 by SIM	2-Methylnaphthalene	38100	ug/kg	281	10/09/18 21:41	
EPA 8270 by SIM	Naphthalene	3000	ug/kg	28.1	10/08/18 20:13	ED
EPA 8270 by SIM	Phenanthrene	8900	ug/kg	28.1	10/08/18 20:13	
EPA 8270 by SIM	Pyrene	929	ug/kg	28.1	10/08/18 20:13	
SM 2540G	Percent Moisture	11.9	%	0.10	10/03/18 10:06	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Indiana University Health
Pace Project No.: 50206666

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206817007	**SB-24-22-24**					
EPA 8270 by SIM	1-Methylnaphthalene	60.5	ug/kg	7.6	10/08/18 20:31	N2
EPA 8270 by SIM	2-Methylnaphthalene	75.2	ug/kg	7.6	10/08/18 20:31	
EPA 8270 by SIM	Naphthalene	58.1	ug/kg	7.6	10/08/18 20:31	
EPA 8270 by SIM	Phenanthrene	13.9	ug/kg	7.6	10/08/18 20:31	
SM 2540G	Percent Moisture	35.0	%	0.10	10/03/18 10:06	
50206817008	**SB-24-4-6**					
SM 2540G	Percent Moisture	20.2	%	0.10	10/03/18 10:06	
50206817009	**SB-18-6-8**					
SM 2540G	Percent Moisture	25.1	%	0.10	10/03/18 10:06	
50206817010	**SB-23-8-10**					
SM 2540G	Percent Moisture	28.9	%	0.10	10/03/18 10:06	
50206817011	**SB-22-GW-4-14**					
EPA 8270 by SIM LVE	1-Methylnaphthalene	13.9	ug/L	1.0	10/05/18 18:55	N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	4.5	ug/L	1.0	10/05/18 18:55	
EPA 8270 by SIM LVE	Naphthalene	2.1	ug/L	1.0	10/05/18 18:55	
50206817013	**SB-20-GW-0-10**					
EPA 8270 by SIM LVE	Acenaphthene	1.2	ug/L	1.0	10/05/18 19:14	
EPA 8270 by SIM LVE	Fluorene	1.4	ug/L	1.0	10/05/18 19:14	
EPA 8270 by SIM LVE	1-Methylnaphthalene	27.7	ug/L	1.0	10/05/18 19:14	N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	30.5	ug/L	1.0	10/05/18 19:14	
EPA 8270 by SIM LVE	Naphthalene	1.4	ug/L	1.0	10/05/18 19:14	
EPA 8270 by SIM LVE	Phenanthrene	1.3	ug/L	1.0	10/05/18 19:14	
EPA 8260	Benzene	105	ug/L	5.0	10/10/18 12:02	M5
EPA 8260	n-Butylbenzene	6.7	ug/L	5.0	10/10/18 12:02	M5
EPA 8260	sec-Butylbenzene	5.7	ug/L	5.0	10/10/18 12:02	M5
EPA 8260	Ethylbenzene	5.2	ug/L	5.0	10/10/18 12:02	M5
EPA 8260	n-Hexane	18.4	ug/L	5.0	10/10/18 12:02	M5
EPA 8260	Isopropylbenzene (Cumene)	22.6	ug/L	5.0	10/10/18 12:02	M5
EPA 8260	n-Propylbenzene	29.5	ug/L	5.0	10/10/18 12:02	M5
EPA 8260	Toluene	5.6	ug/L	5.0	10/10/18 12:02	M5

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-23-2-4 **Lab ID: 50206666001** Collected: 09/26/18 12:35 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	95.9	1		10/03/18 14:41	67-64-1	
Acrolein	ND	ug/kg	95.9	1		10/03/18 14:41	107-02-8	
Acrylonitrile	ND	ug/kg	95.9	1		10/03/18 14:41	107-13-1	
Benzene	ND	ug/kg	4.8	1		10/03/18 14:41	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/03/18 14:41	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/03/18 14:41	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/03/18 14:41	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/03/18 14:41	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		10/03/18 14:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.0	1		10/03/18 14:41	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/03/18 14:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/03/18 14:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/03/18 14:41	98-06-6	
Carbon disulfide	ND	ug/kg	9.6	1		10/03/18 14:41	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/03/18 14:41	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/03/18 14:41	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		10/03/18 14:41	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/03/18 14:41	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		10/03/18 14:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/03/18 14:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/03/18 14:41	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		10/03/18 14:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/03/18 14:41	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/03/18 14:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/03/18 14:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/03/18 14:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/03/18 14:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.9	1		10/03/18 14:41	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		10/03/18 14:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/03/18 14:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/03/18 14:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/03/18 14:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/03/18 14:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/03/18 14:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/03/18 14:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/03/18 14:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/03/18 14:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/03/18 14:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/03/18 14:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/03/18 14:41	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		10/03/18 14:41	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.9	1		10/03/18 14:41	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/03/18 14:41	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		10/03/18 14:41	110-54-3	
2-Hexanone	ND	ug/kg	95.9	1		10/03/18 14:41	591-78-6	
Iodomethane	ND	ug/kg	95.9	1		10/03/18 14:41	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-23-2-4 **Lab ID: 50206666001** Collected: 09/26/18 12:35 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/03/18 14:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/03/18 14:41	99-87-6	
Methylene Chloride	ND	ug/kg	19.2	1		10/03/18 14:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.0	1		10/03/18 14:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/03/18 14:41	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		10/03/18 14:41	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/03/18 14:41	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/03/18 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/03/18 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/03/18 14:41	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/03/18 14:41	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/03/18 14:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/03/18 14:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/03/18 14:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/03/18 14:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/03/18 14:41	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/03/18 14:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/03/18 14:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/03/18 14:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/03/18 14:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/03/18 14:41	108-67-8	
Vinyl acetate	ND	ug/kg	95.9	1		10/03/18 14:41	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		10/03/18 14:41	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		10/03/18 14:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	117	%.	80-127	1		10/03/18 14:41	1868-53-7	
Toluene-d8 (S)	86	%.	72-136	1		10/03/18 14:41	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	57-130	1		10/03/18 14:41	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.7**	%	0.10	1		10/01/18 11:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-23-8-10 **Lab ID: 50206666002** Collected: 09/26/18 12:40 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	127	1		10/03/18 15:15	67-64-1	
Acrolein	ND	ug/kg	127	1		10/03/18 15:15	107-02-8	
Acrylonitrile	ND	ug/kg	127	1		10/03/18 15:15	107-13-1	
Benzene	ND	ug/kg	6.4	1		10/03/18 15:15	71-43-2	
Bromobenzene	ND	ug/kg	6.4	1		10/03/18 15:15	108-86-1	
Bromochloromethane	ND	ug/kg	6.4	1		10/03/18 15:15	74-97-5	
Bromodichloromethane	ND	ug/kg	6.4	1		10/03/18 15:15	75-27-4	
Bromoform	ND	ug/kg	6.4	1		10/03/18 15:15	75-25-2	
Bromomethane	ND	ug/kg	6.4	1		10/03/18 15:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	31.8	1		10/03/18 15:15	78-93-3	
n-Butylbenzene	ND	ug/kg	6.4	1		10/03/18 15:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.4	1		10/03/18 15:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.4	1		10/03/18 15:15	98-06-6	
Carbon disulfide	ND	ug/kg	12.7	1		10/03/18 15:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.4	1		10/03/18 15:15	56-23-5	
Chlorobenzene	ND	ug/kg	6.4	1		10/03/18 15:15	108-90-7	
Chloroethane	ND	ug/kg	6.4	1		10/03/18 15:15	75-00-3	
Chloroform	ND	ug/kg	6.4	1		10/03/18 15:15	67-66-3	
Chloromethane	ND	ug/kg	6.4	1		10/03/18 15:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.4	1		10/03/18 15:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.4	1		10/03/18 15:15	106-43-4	
Dibromochloromethane	ND	ug/kg	6.4	1		10/03/18 15:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.4	1		10/03/18 15:15	106-93-4	
Dibromomethane	ND	ug/kg	6.4	1		10/03/18 15:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.4	1		10/03/18 15:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.4	1		10/03/18 15:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.4	1		10/03/18 15:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	127	1		10/03/18 15:15	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.4	1		10/03/18 15:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.4	1		10/03/18 15:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.4	1		10/03/18 15:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.4	1		10/03/18 15:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1		10/03/18 15:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.4	1		10/03/18 15:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.4	1		10/03/18 15:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.4	1		10/03/18 15:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.4	1		10/03/18 15:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.4	1		10/03/18 15:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.4	1		10/03/18 15:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.4	1		10/03/18 15:15	10061-02-6	
Ethylbenzene	ND	ug/kg	6.4	1		10/03/18 15:15	100-41-4	
Ethyl methacrylate	ND	ug/kg	127	1		10/03/18 15:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.4	1		10/03/18 15:15	87-68-3	
n-Hexane	ND	ug/kg	6.4	1		10/03/18 15:15	110-54-3	
2-Hexanone	ND	ug/kg	127	1		10/03/18 15:15	591-78-6	
Iodomethane	ND	ug/kg	127	1		10/03/18 15:15	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-23-8-10 **Lab ID: 50206666002** Collected: 09/26/18 12:40 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	6.4	1		10/03/18 15:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.4	1		10/03/18 15:15	99-87-6	
Methylene Chloride	ND	ug/kg	25.4	1		10/03/18 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	31.8	1		10/03/18 15:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.4	1		10/03/18 15:15	1634-04-4	
Naphthalene	ND	ug/kg	6.4	1		10/03/18 15:15	91-20-3	
n-Propylbenzene	ND	ug/kg	6.4	1		10/03/18 15:15	103-65-1	
Styrene	ND	ug/kg	6.4	1		10/03/18 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1		10/03/18 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1		10/03/18 15:15	79-34-5	
Tetrachloroethene	ND	ug/kg	6.4	1		10/03/18 15:15	127-18-4	
Toluene	ND	ug/kg	6.4	1		10/03/18 15:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.4	1		10/03/18 15:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.4	1		10/03/18 15:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1		10/03/18 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.4	1		10/03/18 15:15	79-00-5	
Trichloroethene	ND	ug/kg	6.4	1		10/03/18 15:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.4	1		10/03/18 15:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.4	1		10/03/18 15:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.4	1		10/03/18 15:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.4	1		10/03/18 15:15	108-67-8	
Vinyl acetate	ND	ug/kg	127	1		10/03/18 15:15	108-05-4	
Vinyl chloride	ND	ug/kg	6.4	1		10/03/18 15:15	75-01-4	
Xylene (Total)	ND	ug/kg	12.7	1		10/03/18 15:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	119	%.	80-127	1		10/03/18 15:15	1868-53-7	
Toluene-d8 (S)	87	%.	72-136	1		10/03/18 15:15	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	57-130	1		10/03/18 15:15	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**31.1**	%	0.10	1		10/01/18 11:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-24-4-6 **Lab ID: 50206666003** Collected: 09/26/18 11:30 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	95.6	1		10/03/18 15:50	67-64-1	
Acrolein	ND	ug/kg	95.6	1		10/03/18 15:50	107-02-8	
Acrylonitrile	ND	ug/kg	95.6	1		10/03/18 15:50	107-13-1	
Benzene	ND	ug/kg	4.8	1		10/03/18 15:50	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/03/18 15:50	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/03/18 15:50	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/03/18 15:50	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/03/18 15:50	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		10/03/18 15:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.9	1		10/03/18 15:50	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/03/18 15:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/03/18 15:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/03/18 15:50	98-06-6	
Carbon disulfide	ND	ug/kg	9.6	1		10/03/18 15:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/03/18 15:50	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/03/18 15:50	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		10/03/18 15:50	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/03/18 15:50	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		10/03/18 15:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/03/18 15:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/03/18 15:50	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		10/03/18 15:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/03/18 15:50	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/03/18 15:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/03/18 15:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/03/18 15:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/03/18 15:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.6	1		10/03/18 15:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		10/03/18 15:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/03/18 15:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/03/18 15:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/03/18 15:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/03/18 15:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/03/18 15:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/03/18 15:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/03/18 15:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/03/18 15:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/03/18 15:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/03/18 15:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/03/18 15:50	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		10/03/18 15:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.6	1		10/03/18 15:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/03/18 15:50	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		10/03/18 15:50	110-54-3	
2-Hexanone	ND	ug/kg	95.6	1		10/03/18 15:50	591-78-6	
Iodomethane	ND	ug/kg	95.6	1		10/03/18 15:50	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-24-4-6 **Lab ID: 50206666003** Collected: 09/26/18 11:30 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/03/18 15:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/03/18 15:50	99-87-6	
Methylene Chloride	ND	ug/kg	19.1	1		10/03/18 15:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.9	1		10/03/18 15:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/03/18 15:50	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		10/03/18 15:50	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/03/18 15:50	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/03/18 15:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/03/18 15:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/03/18 15:50	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/03/18 15:50	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/03/18 15:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/03/18 15:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/03/18 15:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/03/18 15:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/03/18 15:50	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/03/18 15:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/03/18 15:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/03/18 15:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/03/18 15:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/03/18 15:50	108-67-8	
Vinyl acetate	ND	ug/kg	95.6	1		10/03/18 15:50	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		10/03/18 15:50	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		10/03/18 15:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	115	%.	80-127	1		10/03/18 15:50	1868-53-7	
Toluene-d8 (S)	90	%.	72-136	1		10/03/18 15:50	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	57-130	1		10/03/18 15:50	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.5**	%	0.10	1		10/01/18 11:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-24-22-24 **Lab ID: 50206666004** Collected: 09/26/18 11:40 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	144	1		10/03/18 16:24	67-64-1	
Acrolein	ND	ug/kg	144	1		10/03/18 16:24	107-02-8	
Acrylonitrile	ND	ug/kg	144	1		10/03/18 16:24	107-13-1	
Benzene	ND	ug/kg	7.2	1		10/03/18 16:24	71-43-2	
Bromobenzene	ND	ug/kg	7.2	1		10/03/18 16:24	108-86-1	
Bromochloromethane	ND	ug/kg	7.2	1		10/03/18 16:24	74-97-5	
Bromodichloromethane	ND	ug/kg	7.2	1		10/03/18 16:24	75-27-4	
Bromoform	ND	ug/kg	7.2	1		10/03/18 16:24	75-25-2	
Bromomethane	ND	ug/kg	7.2	1		10/03/18 16:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	35.9	1		10/03/18 16:24	78-93-3	
n-Butylbenzene	ND	ug/kg	7.2	1		10/03/18 16:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.2	1		10/03/18 16:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.2	1		10/03/18 16:24	98-06-6	
Carbon disulfide	ND	ug/kg	14.4	1		10/03/18 16:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	7.2	1		10/03/18 16:24	56-23-5	
Chlorobenzene	ND	ug/kg	7.2	1		10/03/18 16:24	108-90-7	
Chloroethane	ND	ug/kg	7.2	1		10/03/18 16:24	75-00-3	
Chloroform	ND	ug/kg	7.2	1		10/03/18 16:24	67-66-3	
Chloromethane	ND	ug/kg	7.2	1		10/03/18 16:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.2	1		10/03/18 16:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.2	1		10/03/18 16:24	106-43-4	
Dibromochloromethane	ND	ug/kg	7.2	1		10/03/18 16:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.2	1		10/03/18 16:24	106-93-4	
Dibromomethane	ND	ug/kg	7.2	1		10/03/18 16:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.2	1		10/03/18 16:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.2	1		10/03/18 16:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.2	1		10/03/18 16:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	144	1		10/03/18 16:24	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	7.2	1		10/03/18 16:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.2	1		10/03/18 16:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.2	1		10/03/18 16:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.2	1		10/03/18 16:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.2	1		10/03/18 16:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.2	1		10/03/18 16:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.2	1		10/03/18 16:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.2	1		10/03/18 16:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.2	1		10/03/18 16:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.2	1		10/03/18 16:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.2	1		10/03/18 16:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.2	1		10/03/18 16:24	10061-02-6	
Ethylbenzene	ND	ug/kg	7.2	1		10/03/18 16:24	100-41-4	
Ethyl methacrylate	ND	ug/kg	144	1		10/03/18 16:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	7.2	1		10/03/18 16:24	87-68-3	
n-Hexane	ND	ug/kg	7.2	1		10/03/18 16:24	110-54-3	
2-Hexanone	ND	ug/kg	144	1		10/03/18 16:24	591-78-6	
Iodomethane	ND	ug/kg	144	1		10/03/18 16:24	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-24-22-24 **Lab ID: 50206666004** Collected: 09/26/18 11:40 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	7.2	1		10/03/18 16:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.2	1		10/03/18 16:24	99-87-6	
Methylene Chloride	ND	ug/kg	28.7	1		10/03/18 16:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	35.9	1		10/03/18 16:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.2	1		10/03/18 16:24	1634-04-4	
Naphthalene	ND	ug/kg	7.2	1		10/03/18 16:24	91-20-3	
n-Propylbenzene	ND	ug/kg	7.2	1		10/03/18 16:24	103-65-1	
Styrene	ND	ug/kg	7.2	1		10/03/18 16:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.2	1		10/03/18 16:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.2	1		10/03/18 16:24	79-34-5	
Tetrachloroethene	ND	ug/kg	7.2	1		10/03/18 16:24	127-18-4	
Toluene	ND	ug/kg	7.2	1		10/03/18 16:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.2	1		10/03/18 16:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.2	1		10/03/18 16:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.2	1		10/03/18 16:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.2	1		10/03/18 16:24	79-00-5	
Trichloroethene	ND	ug/kg	7.2	1		10/03/18 16:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.2	1		10/03/18 16:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.2	1		10/03/18 16:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.2	1		10/03/18 16:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.2	1		10/03/18 16:24	108-67-8	
Vinyl acetate	ND	ug/kg	144	1		10/03/18 16:24	108-05-4	
Vinyl chloride	ND	ug/kg	7.2	1		10/03/18 16:24	75-01-4	
Xylene (Total)	ND	ug/kg	14.4	1		10/03/18 16:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	116	%.	80-127	1		10/03/18 16:24	1868-53-7	
Toluene-d8 (S)	89	%.	72-136	1		10/03/18 16:24	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	57-130	1		10/03/18 16:24	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**33.7**	%	0.10	1		10/01/18 11:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-19-2-4 **Lab ID: 50206666005** Collected: 09/26/18 14:30 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	114	1		10/03/18 16:59	67-64-1	
Acrolein	ND	ug/kg	114	1		10/03/18 16:59	107-02-8	
Acrylonitrile	ND	ug/kg	114	1		10/03/18 16:59	107-13-1	
Benzene	ND	ug/kg	5.7	1		10/03/18 16:59	71-43-2	
Bromobenzene	ND	ug/kg	5.7	1		10/03/18 16:59	108-86-1	
Bromochloromethane	ND	ug/kg	5.7	1		10/03/18 16:59	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1		10/03/18 16:59	75-27-4	
Bromoform	ND	ug/kg	5.7	1		10/03/18 16:59	75-25-2	
Bromomethane	ND	ug/kg	5.7	1		10/03/18 16:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	28.6	1		10/03/18 16:59	78-93-3	
n-Butylbenzene	ND	ug/kg	5.7	1		10/03/18 16:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.7	1		10/03/18 16:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.7	1		10/03/18 16:59	98-06-6	
Carbon disulfide	ND	ug/kg	11.4	1		10/03/18 16:59	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.7	1		10/03/18 16:59	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	1		10/03/18 16:59	108-90-7	
Chloroethane	ND	ug/kg	5.7	1		10/03/18 16:59	75-00-3	
Chloroform	ND	ug/kg	5.7	1		10/03/18 16:59	67-66-3	
Chloromethane	ND	ug/kg	5.7	1		10/03/18 16:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.7	1		10/03/18 16:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.7	1		10/03/18 16:59	106-43-4	
Dibromochloromethane	ND	ug/kg	5.7	1		10/03/18 16:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1		10/03/18 16:59	106-93-4	
Dibromomethane	ND	ug/kg	5.7	1		10/03/18 16:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.7	1		10/03/18 16:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1		10/03/18 16:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	1		10/03/18 16:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	114	1		10/03/18 16:59	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.7	1		10/03/18 16:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.7	1		10/03/18 16:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1		10/03/18 16:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.7	1		10/03/18 16:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1		10/03/18 16:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1		10/03/18 16:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	1		10/03/18 16:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.7	1		10/03/18 16:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.7	1		10/03/18 16:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.7	1		10/03/18 16:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1		10/03/18 16:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1		10/03/18 16:59	10061-02-6	
Ethylbenzene	ND	ug/kg	5.7	1		10/03/18 16:59	100-41-4	
Ethyl methacrylate	ND	ug/kg	114	1		10/03/18 16:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1		10/03/18 16:59	87-68-3	
n-Hexane	ND	ug/kg	5.7	1		10/03/18 16:59	110-54-3	
2-Hexanone	ND	ug/kg	114	1		10/03/18 16:59	591-78-6	
Iodomethane	ND	ug/kg	114	1		10/03/18 16:59	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-19-2-4 **Lab ID: 50206666005** Collected: 09/26/18 14:30 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1		10/03/18 16:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.7	1		10/03/18 16:59	99-87-6	
Methylene Chloride	ND	ug/kg	22.9	1		10/03/18 16:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	28.6	1		10/03/18 16:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	1		10/03/18 16:59	1634-04-4	
Naphthalene	ND	ug/kg	5.7	1		10/03/18 16:59	91-20-3	
n-Propylbenzene	ND	ug/kg	5.7	1		10/03/18 16:59	103-65-1	
Styrene	ND	ug/kg	5.7	1		10/03/18 16:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1		10/03/18 16:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1		10/03/18 16:59	79-34-5	
Tetrachloroethene	ND	ug/kg	5.7	1		10/03/18 16:59	127-18-4	
Toluene	ND	ug/kg	5.7	1		10/03/18 16:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1		10/03/18 16:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1		10/03/18 16:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1		10/03/18 16:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1		10/03/18 16:59	79-00-5	
Trichloroethene	ND	ug/kg	5.7	1		10/03/18 16:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.7	1		10/03/18 16:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.7	1		10/03/18 16:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1		10/03/18 16:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1		10/03/18 16:59	108-67-8	
Vinyl acetate	ND	ug/kg	114	1		10/03/18 16:59	108-05-4	
Vinyl chloride	ND	ug/kg	5.7	1		10/03/18 16:59	75-01-4	
Xylene (Total)	ND	ug/kg	11.4	1		10/03/18 16:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	80-127	1		10/03/18 16:59	1868-53-7	
Toluene-d8 (S)	89	%.	72-136	1		10/03/18 16:59	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	57-130	1		10/03/18 16:59	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**5.1**	%	0.10	1		10/01/18 11:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-20-2-4 **Lab ID: 50206666007** Collected: 09/26/18 15:35 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	5600	50		10/05/18 00:28	67-64-1	M5
Acrolein	ND	ug/kg	5600	50		10/05/18 00:28	107-02-8	M5
Acrylonitrile	ND	ug/kg	5600	50		10/05/18 00:28	107-13-1	M5
Benzene	**859**	ug/kg	280	50		10/05/18 00:28	71-43-2	M5
Bromobenzene	ND	ug/kg	280	50		10/05/18 00:28	108-86-1	M5
Bromochloromethane	ND	ug/kg	280	50		10/05/18 00:28	74-97-5	M5
Bromodichloromethane	ND	ug/kg	280	50		10/05/18 00:28	75-27-4	M5
Bromoform	ND	ug/kg	280	50		10/05/18 00:28	75-25-2	M5
Bromomethane	ND	ug/kg	280	50		10/05/18 00:28	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	1400	50		10/05/18 00:28	78-93-3	M5
n-Butylbenzene	**6120**	ug/kg	280	50		10/05/18 00:28	104-51-8	M5
sec-Butylbenzene	**2260**	ug/kg	280	50		10/05/18 00:28	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	280	50		10/05/18 00:28	98-06-6	M5
Carbon disulfide	ND	ug/kg	560	50		10/05/18 00:28	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	280	50		10/05/18 00:28	56-23-5	M5
Chlorobenzene	ND	ug/kg	280	50		10/05/18 00:28	108-90-7	M5
Chloroethane	ND	ug/kg	280	50		10/05/18 00:28	75-00-3	M5
Chloroform	ND	ug/kg	280	50		10/05/18 00:28	67-66-3	M5
Chloromethane	ND	ug/kg	280	50		10/05/18 00:28	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	280	50		10/05/18 00:28	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	280	50		10/05/18 00:28	106-43-4	M5
Dibromochloromethane	ND	ug/kg	280	50		10/05/18 00:28	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	280	50		10/05/18 00:28	106-93-4	M5
Dibromomethane	ND	ug/kg	280	50		10/05/18 00:28	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	280	50		10/05/18 00:28	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	280	50		10/05/18 00:28	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	280	50		10/05/18 00:28	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	5600	50		10/05/18 00:28	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	280	50		10/05/18 00:28	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	280	50		10/05/18 00:28	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	280	50		10/05/18 00:28	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	280	50		10/05/18 00:28	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	280	50		10/05/18 00:28	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	280	50		10/05/18 00:28	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	280	50		10/05/18 00:28	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	280	50		10/05/18 00:28	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	280	50		10/05/18 00:28	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	280	50		10/05/18 00:28	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	280	50		10/05/18 00:28	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	280	50		10/05/18 00:28	10061-02-6	M5
Ethylbenzene	**2380**	ug/kg	280	50		10/05/18 00:28	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	5600	50		10/05/18 00:28	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	280	50		10/05/18 00:28	87-68-3	M5
n-Hexane	**3240**	ug/kg	280	50		10/05/18 00:28	110-54-3	M5
2-Hexanone	ND	ug/kg	5600	50		10/05/18 00:28	591-78-6	M5
Iodomethane	ND	ug/kg	5600	50		10/05/18 00:28	74-88-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-20-2-4 **Lab ID: 50206666007** Collected: 09/26/18 15:35 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	**2500**	ug/kg	280	50		10/05/18 00:28	98-82-8	M5
p-Isopropyltoluene	**1390**	ug/kg	280	50		10/05/18 00:28	99-87-6	M5
Methylene Chloride	ND	ug/kg	1120	50		10/05/18 00:28	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1400	50		10/05/18 00:28	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	280	50		10/05/18 00:28	1634-04-4	M5
Naphthalene	**5300**	ug/kg	280	50		10/05/18 00:28	91-20-3	M5
n-Propylbenzene	**6510**	ug/kg	280	50		10/05/18 00:28	103-65-1	M5
Styrene	ND	ug/kg	280	50		10/05/18 00:28	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	280	50		10/05/18 00:28	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	280	50		10/05/18 00:28	79-34-5	M5
Tetrachloroethene	ND	ug/kg	280	50		10/05/18 00:28	127-18-4	M5
Toluene	ND	ug/kg	280	50		10/05/18 00:28	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	280	50		10/05/18 00:28	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	280	50		10/05/18 00:28	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	280	50		10/05/18 00:28	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	280	50		10/05/18 00:28	79-00-5	M5
Trichloroethene	ND	ug/kg	280	50		10/05/18 00:28	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	280	50		10/05/18 00:28	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	280	50		10/05/18 00:28	96-18-4	M5
1,2,4-Trimethylbenzene	**6790**	ug/kg	280	50		10/05/18 00:28	95-63-6	M5
1,3,5-Trimethylbenzene	**7670**	ug/kg	280	50		10/05/18 00:28	108-67-8	M5
Vinyl acetate	ND	ug/kg	5600	50		10/05/18 00:28	108-05-4	M5
Vinyl chloride	ND	ug/kg	280	50		10/05/18 00:28	75-01-4	M5
Xylene (Total)	**1040**	ug/kg	560	50		10/05/18 00:28	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	85	%.	80-127	50		10/05/18 00:28	1868-53-7	D4,M5
Toluene-d8 (S)	106	%.	72-136	50		10/05/18 00:28	2037-26-5	M5
4-Bromofluorobenzene (S)	98	%.	57-130	50		10/05/18 00:28	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**18.5**	%	0.10	1		10/01/18 11:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-21-2-4 **Lab ID: 50206666008** Collected: 09/26/18 16:15 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	106	1		10/03/18 18:42	67-64-1	
Acrolein	ND	ug/kg	106	1		10/03/18 18:42	107-02-8	
Acrylonitrile	ND	ug/kg	106	1		10/03/18 18:42	107-13-1	
Benzene	ND	ug/kg	5.3	1		10/03/18 18:42	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		10/03/18 18:42	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		10/03/18 18:42	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		10/03/18 18:42	75-27-4	
Bromoform	ND	ug/kg	5.3	1		10/03/18 18:42	75-25-2	
Bromomethane	ND	ug/kg	5.3	1		10/03/18 18:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.6	1		10/03/18 18:42	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		10/03/18 18:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		10/03/18 18:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		10/03/18 18:42	98-06-6	
Carbon disulfide	ND	ug/kg	10.6	1		10/03/18 18:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1		10/03/18 18:42	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		10/03/18 18:42	108-90-7	
Chloroethane	ND	ug/kg	5.3	1		10/03/18 18:42	75-00-3	
Chloroform	ND	ug/kg	5.3	1		10/03/18 18:42	67-66-3	
Chloromethane	ND	ug/kg	5.3	1		10/03/18 18:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		10/03/18 18:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		10/03/18 18:42	106-43-4	
Dibromochloromethane	ND	ug/kg	5.3	1		10/03/18 18:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		10/03/18 18:42	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		10/03/18 18:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		10/03/18 18:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		10/03/18 18:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		10/03/18 18:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	106	1		10/03/18 18:42	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.3	1		10/03/18 18:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		10/03/18 18:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		10/03/18 18:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		10/03/18 18:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		10/03/18 18:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		10/03/18 18:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		10/03/18 18:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		10/03/18 18:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		10/03/18 18:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		10/03/18 18:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		10/03/18 18:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		10/03/18 18:42	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1		10/03/18 18:42	100-41-4	
Ethyl methacrylate	ND	ug/kg	106	1		10/03/18 18:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		10/03/18 18:42	87-68-3	
n-Hexane	ND	ug/kg	5.3	1		10/03/18 18:42	110-54-3	
2-Hexanone	ND	ug/kg	106	1		10/03/18 18:42	591-78-6	
Iodomethane	ND	ug/kg	106	1		10/03/18 18:42	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-21-2-4 **Lab ID: 50206666008** Collected: 09/26/18 16:15 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		10/03/18 18:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		10/03/18 18:42	99-87-6	
Methylene Chloride	ND	ug/kg	21.3	1		10/03/18 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.6	1		10/03/18 18:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		10/03/18 18:42	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		10/03/18 18:42	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		10/03/18 18:42	103-65-1	
Styrene	ND	ug/kg	5.3	1		10/03/18 18:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		10/03/18 18:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		10/03/18 18:42	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		10/03/18 18:42	127-18-4	
Toluene	ND	ug/kg	5.3	1		10/03/18 18:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		10/03/18 18:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		10/03/18 18:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		10/03/18 18:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		10/03/18 18:42	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		10/03/18 18:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		10/03/18 18:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		10/03/18 18:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		10/03/18 18:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		10/03/18 18:42	108-67-8	
Vinyl acetate	ND	ug/kg	106	1		10/03/18 18:42	108-05-4	
Vinyl chloride	ND	ug/kg	5.3	1		10/03/18 18:42	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		10/03/18 18:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	80-127	1		10/03/18 18:42	1868-53-7	
Toluene-d8 (S)	91	%.	72-136	1		10/03/18 18:42	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	57-130	1		10/03/18 18:42	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**21.2**	%	0.10	1		10/01/18 11:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-22-10-12 **Lab ID: 50206666010** Collected: 09/26/18 18:40 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	105	1		10/03/18 19:51	67-64-1	
Acrolein	ND	ug/kg	105	1		10/03/18 19:51	107-02-8	
Acrylonitrile	ND	ug/kg	105	1		10/03/18 19:51	107-13-1	
Benzene	ND	ug/kg	5.2	1		10/03/18 19:51	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		10/03/18 19:51	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		10/03/18 19:51	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		10/03/18 19:51	75-27-4	
Bromoform	ND	ug/kg	5.2	1		10/03/18 19:51	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		10/03/18 19:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.2	1		10/03/18 19:51	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		10/03/18 19:51	104-51-8	
sec-Butylbenzene	**75.7**	ug/kg	5.2	1		10/03/18 19:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		10/03/18 19:51	98-06-6	
Carbon disulfide	ND	ug/kg	10.5	1		10/03/18 19:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		10/03/18 19:51	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		10/03/18 19:51	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		10/03/18 19:51	75-00-3	
Chloroform	ND	ug/kg	5.2	1		10/03/18 19:51	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		10/03/18 19:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		10/03/18 19:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		10/03/18 19:51	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		10/03/18 19:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		10/03/18 19:51	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		10/03/18 19:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		10/03/18 19:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		10/03/18 19:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		10/03/18 19:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	105	1		10/03/18 19:51	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		10/03/18 19:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		10/03/18 19:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		10/03/18 19:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		10/03/18 19:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		10/03/18 19:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		10/03/18 19:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		10/03/18 19:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		10/03/18 19:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		10/03/18 19:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		10/03/18 19:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		10/03/18 19:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		10/03/18 19:51	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		10/03/18 19:51	100-41-4	
Ethyl methacrylate	ND	ug/kg	105	1		10/03/18 19:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		10/03/18 19:51	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		10/03/18 19:51	110-54-3	
2-Hexanone	ND	ug/kg	105	1		10/03/18 19:51	591-78-6	
Iodomethane	ND	ug/kg	105	1		10/03/18 19:51	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-22-10-12 **Lab ID: 50206666010** Collected: 09/26/18 18:40 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		10/03/18 19:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		10/03/18 19:51	99-87-6	
Methylene Chloride	ND	ug/kg	21.0	1		10/03/18 19:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.2	1		10/03/18 19:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		10/03/18 19:51	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		10/03/18 19:51	91-20-3	
n-Propylbenzene	**34.4**	ug/kg	5.2	1		10/03/18 19:51	103-65-1	
Styrene	ND	ug/kg	5.2	1		10/03/18 19:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		10/03/18 19:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		10/03/18 19:51	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		10/03/18 19:51	127-18-4	
Toluene	ND	ug/kg	5.2	1		10/03/18 19:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		10/03/18 19:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		10/03/18 19:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		10/03/18 19:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		10/03/18 19:51	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		10/03/18 19:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		10/03/18 19:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		10/03/18 19:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		10/03/18 19:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		10/03/18 19:51	108-67-8	
Vinyl acetate	ND	ug/kg	105	1		10/03/18 19:51	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		10/03/18 19:51	75-01-4	
Xylene (Total)	ND	ug/kg	10.5	1		10/03/18 19:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	80-127	1		10/03/18 19:51	1868-53-7	
Toluene-d8 (S)	113	%.	72-136	1		10/03/18 19:51	2037-26-5	
4-Bromofluorobenzene (S)	233	%.	57-130	1		10/03/18 19:51	460-00-4	S5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**23.0**	%	0.10	1		10/01/18 11:33		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-18-6-8 **Lab ID: 50206666011** Collected: 09/26/18 18:20 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	117	1		10/03/18 20:26	67-64-1	
Acrolein	ND	ug/kg	117	1		10/03/18 20:26	107-02-8	
Acrylonitrile	ND	ug/kg	117	1		10/03/18 20:26	107-13-1	
Benzene	ND	ug/kg	5.9	1		10/03/18 20:26	71-43-2	
Bromobenzene	ND	ug/kg	5.9	1		10/03/18 20:26	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	1		10/03/18 20:26	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	1		10/03/18 20:26	75-27-4	
Bromoform	ND	ug/kg	5.9	1		10/03/18 20:26	75-25-2	
Bromomethane	ND	ug/kg	5.9	1		10/03/18 20:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	29.3	1		10/03/18 20:26	78-93-3	
n-Butylbenzene	ND	ug/kg	5.9	1		10/03/18 20:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.9	1		10/03/18 20:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	1		10/03/18 20:26	98-06-6	
Carbon disulfide	ND	ug/kg	11.7	1		10/03/18 20:26	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.9	1		10/03/18 20:26	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	1		10/03/18 20:26	108-90-7	
Chloroethane	ND	ug/kg	5.9	1		10/03/18 20:26	75-00-3	
Chloroform	ND	ug/kg	5.9	1		10/03/18 20:26	67-66-3	
Chloromethane	ND	ug/kg	5.9	1		10/03/18 20:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	1		10/03/18 20:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.9	1		10/03/18 20:26	106-43-4	
Dibromochloromethane	ND	ug/kg	5.9	1		10/03/18 20:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	1		10/03/18 20:26	106-93-4	
Dibromomethane	ND	ug/kg	5.9	1		10/03/18 20:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	1		10/03/18 20:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	1		10/03/18 20:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	1		10/03/18 20:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	117	1		10/03/18 20:26	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.9	1		10/03/18 20:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1		10/03/18 20:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	1		10/03/18 20:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.9	1		10/03/18 20:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1		10/03/18 20:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1		10/03/18 20:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	1		10/03/18 20:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	1		10/03/18 20:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	1		10/03/18 20:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1		10/03/18 20:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	1		10/03/18 20:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1		10/03/18 20:26	10061-02-6	
Ethylbenzene	ND	ug/kg	5.9	1		10/03/18 20:26	100-41-4	
Ethyl methacrylate	ND	ug/kg	117	1		10/03/18 20:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	1		10/03/18 20:26	87-68-3	
n-Hexane	ND	ug/kg	5.9	1		10/03/18 20:26	110-54-3	
2-Hexanone	ND	ug/kg	117	1		10/03/18 20:26	591-78-6	
Iodomethane	ND	ug/kg	117	1		10/03/18 20:26	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-18-6-8 **Lab ID: 50206666011** Collected: 09/26/18 18:20 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1		10/03/18 20:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	1		10/03/18 20:26	99-87-6	
Methylene Chloride	ND	ug/kg	23.4	1		10/03/18 20:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.3	1		10/03/18 20:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	1		10/03/18 20:26	1634-04-4	
Naphthalene	ND	ug/kg	5.9	1		10/03/18 20:26	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	1		10/03/18 20:26	103-65-1	
Styrene	ND	ug/kg	5.9	1		10/03/18 20:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	1		10/03/18 20:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1		10/03/18 20:26	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	1		10/03/18 20:26	127-18-4	
Toluene	ND	ug/kg	5.9	1		10/03/18 20:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	1		10/03/18 20:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1		10/03/18 20:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	1		10/03/18 20:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1		10/03/18 20:26	79-00-5	
Trichloroethene	ND	ug/kg	5.9	1		10/03/18 20:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	1		10/03/18 20:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1		10/03/18 20:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1		10/03/18 20:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1		10/03/18 20:26	108-67-8	
Vinyl acetate	ND	ug/kg	117	1		10/03/18 20:26	108-05-4	
Vinyl chloride	ND	ug/kg	5.9	1		10/03/18 20:26	75-01-4	
Xylene (Total)	ND	ug/kg	11.7	1		10/03/18 20:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	80-127	1		10/03/18 20:26	1868-53-7	
Toluene-d8 (S)	94	%.	72-136	1		10/03/18 20:26	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	57-130	1		10/03/18 20:26	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**24.9**	%	0.10	1		10/01/18 11:33		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-22-10-12 **Lab ID: 50206817002** Collected: 09/26/18 18:40 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	83-32-9	
Acenaphthylene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	208-96-8	
Anthracene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	207-08-9	
Chrysene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	53-70-3	
Fluoranthene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	206-44-0	
Fluorene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	193-39-5	
1-Methylnaphthalene	**16.9**	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	90-12-0	N2
2-Methylnaphthalene	**10.2**	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	91-57-6	
Naphthalene	**11.3**	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	91-20-3	
Phenanthrene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	85-01-8	
Pyrene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 19:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	65	%.	40-107	1	10/08/18 10:40	10/08/18 19:03	321-60-8	
p-Terphenyl-d14 (S)	66	%.	35-115	1	10/08/18 10:40	10/08/18 19:03	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.7**	%	0.10	1		10/03/18 10:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-23-2-4 **Lab ID: 50206817003** Collected: 09/26/18 12:35 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	83-32-9	
Acenaphthylene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	208-96-8	
Anthracene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	207-08-9	
Chrysene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	53-70-3	
Fluoranthene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	206-44-0	
Fluorene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	91-57-6	
Naphthalene	**12.0**	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	91-20-3	
Phenanthrene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	85-01-8	
Pyrene	ND	ug/kg	6.3	1	10/08/18 10:40	10/08/18 19:21	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	40-107	1	10/08/18 10:40	10/08/18 19:21	321-60-8	
p-Terphenyl-d14 (S)	52	%.	35-115	1	10/08/18 10:40	10/08/18 19:21	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**22.3**	%	0.10	1		10/03/18 10:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-19-2-4 **Lab ID: 50206817004** Collected: 09/26/18 14:30 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**8.8**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	83-32-9	
Acenaphthylene	ND	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	208-96-8	
Anthracene	**9.1**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	120-12-7	
Benzo(a)anthracene	**5.8**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	56-55-3	
Benzo(a)pyrene	**9.4**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	50-32-8	
Benzo(b)fluoranthene	**11.8**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	205-99-2	
Benzo(g,h,i)perylene	**10.7**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	191-24-2	
Benzo(k)fluoranthene	**9.5**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	207-08-9	
Chrysene	**9.7**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	53-70-3	
Fluoranthene	**12.2**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	206-44-0	
Fluorene	**14.1**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**8.6**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	193-39-5	
1-Methylnaphthalene	**19.7**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	90-12-0	N2
2-Methylnaphthalene	**18.5**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	91-57-6	
Naphthalene	**11.8**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	91-20-3	
Phenanthrene	**28.3**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	85-01-8	
Pyrene	**12.5**	ug/kg	5.2	1	10/08/18 10:40	10/08/18 19:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	69	%.	40-107	1	10/08/18 10:40	10/08/18 19:38	321-60-8	
p-Terphenyl-d14 (S)	75	%.	35-115	1	10/08/18 10:40	10/08/18 19:38	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**4.9**	%	0.10	1		10/03/18 10:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-21-2-4 **Lab ID: 50206817005** Collected: 09/26/18 16:15 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**8.5**	mg/kg	1.3	1	10/05/18 06:20	10/06/18 10:50	7440-38-2	
Barium	**95.7**	mg/kg	1.3	1	10/05/18 06:20	10/06/18 10:50	7440-39-3	
Cadmium	ND	mg/kg	0.64	1	10/05/18 06:20	10/06/18 10:50	7440-43-9	
Chromium	**46.3**	mg/kg	1.3	1	10/05/18 06:20	10/06/18 10:50	7440-47-3	P8
Lead	**16.3**	mg/kg	1.3	1	10/05/18 06:20	10/06/18 10:50	7439-92-1	
Selenium	ND	mg/kg	1.3	1	10/05/18 06:20	10/06/18 10:50	7782-49-2	
Silver	ND	mg/kg	0.64	1	10/05/18 06:20	10/06/18 10:50	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.26	1	10/05/18 00:20	10/05/18 13:07	7439-97-6	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	83-32-9	
Acenaphthylene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	208-96-8	
Anthracene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	207-08-9	
Chrysene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	53-70-3	
Fluoranthene	**6.8**	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	206-44-0	
Fluorene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	193-39-5	
1-Methylnaphthalene	**8.5**	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	90-12-0	N2
2-Methylnaphthalene	**9.1**	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	91-57-6	
Naphthalene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	91-20-3	
Phenanthrene	**8.5**	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	85-01-8	
Pyrene	ND	ug/kg	6.5	1	10/08/18 10:40	10/08/18 19:55	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%.	40-107	1	10/08/18 10:40	10/08/18 19:55	321-60-8	
p-Terphenyl-d14 (S)	57	%.	35-115	1	10/08/18 10:40	10/08/18 19:55	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**23.3**	%	0.10	1		10/03/18 10:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-20-2-4 **Lab ID: 50206817006** Collected: 09/26/18 15:35 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**3060**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	83-32-9	
Acenaphthylene	**1020**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	208-96-8	
Anthracene	ND	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	120-12-7	
Benzo(a)anthracene	**84.8**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	56-55-3	
Benzo(a)pyrene	**79.9**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	50-32-8	
Benzo(b)fluoranthene	**152**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	205-99-2	
Benzo(g,h,i)perylene	**80.0**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	191-24-2	
Benzo(k)fluoranthene	**85.8**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	207-08-9	
Chrysene	**256**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	53-70-3	
Fluoranthene	**783**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	206-44-0	
Fluorene	**5570**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**67.4**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	193-39-5	
1-Methylnaphthalene	**33200**	ug/kg	281	50	10/08/18 10:40	10/09/18 21:41	90-12-0	N2
2-Methylnaphthalene	**38100**	ug/kg	281	50	10/08/18 10:40	10/09/18 21:41	91-57-6	
Naphthalene	**3000**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	91-20-3	ED
Phenanthrene	**8900**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	85-01-8	
Pyrene	**929**	ug/kg	28.1	5	10/08/18 10:40	10/08/18 20:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	98	%.	40-107	5	10/08/18 10:40	10/08/18 20:13	321-60-8	
p-Terphenyl-d14 (S)	87	%.	35-115	5	10/08/18 10:40	10/08/18 20:13	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**11.9**	%	0.10	1		10/03/18 10:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-24-22-24 **Lab ID: 50206817007** Collected: 09/26/18 11:40 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	83-32-9	
Acenaphthylene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	208-96-8	
Anthracene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	207-08-9	
Chrysene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	53-70-3	
Fluoranthene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	206-44-0	
Fluorene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	193-39-5	
1-Methylnaphthalene	**60.5**	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	90-12-0	N2
2-Methylnaphthalene	**75.2**	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	91-57-6	
Naphthalene	**58.1**	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	91-20-3	
Phenanthrene	**13.9**	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	85-01-8	
Pyrene	ND	ug/kg	7.6	1	10/08/18 10:40	10/08/18 20:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	40-107	1	10/08/18 10:40	10/08/18 20:31	321-60-8	
p-Terphenyl-d14 (S)	45	%.	35-115	1	10/08/18 10:40	10/08/18 20:31	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**35.0**	%	0.10	1		10/03/18 10:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-24-4-6 **Lab ID: 50206817008** Collected: 09/26/18 11:30 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	83-32-9	
Acenaphthylene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	208-96-8	
Anthracene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	207-08-9	
Chrysene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	53-70-3	
Fluoranthene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	206-44-0	
Fluorene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	91-57-6	
Naphthalene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	91-20-3	
Phenanthrene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	85-01-8	
Pyrene	ND	ug/kg	6.2	1	10/08/18 10:40	10/08/18 20:48	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%.	40-107	1	10/08/18 10:40	10/08/18 20:48	321-60-8	
p-Terphenyl-d14 (S)	77	%.	35-115	1	10/08/18 10:40	10/08/18 20:48	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.2**	%	0.10	1		10/03/18 10:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-18-6-8 **Lab ID: 50206817009** Collected: 09/26/18 18:20 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	83-32-9	
Acenaphthylene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	208-96-8	
Anthracene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	207-08-9	
Chrysene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	53-70-3	
Fluoranthene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	206-44-0	
Fluorene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	91-57-6	
Naphthalene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	91-20-3	
Phenanthrene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	85-01-8	
Pyrene	ND	ug/kg	6.6	1	10/08/18 10:40	10/08/18 21:06	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	56	%.	40-107	1	10/08/18 10:40	10/08/18 21:06	321-60-8	
p-Terphenyl-d14 (S)	55	%.	35-115	1	10/08/18 10:40	10/08/18 21:06	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**25.1**	%	0.10	1		10/03/18 10:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-23-8-10 **Lab ID: 50206817010** Collected: 09/26/18 12:40 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	83-32-9	
Acenaphthylene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	208-96-8	
Anthracene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	207-08-9	
Chrysene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	53-70-3	
Fluoranthene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	206-44-0	
Fluorene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	193-39-5	
1-Methylnaphthalene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	91-57-6	
Naphthalene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	91-20-3	
Phenanthrene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	85-01-8	
Pyrene	ND	ug/kg	7.0	1	10/08/18 10:40	10/08/18 21:23	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	56	%.	40-107	1	10/08/18 10:40	10/08/18 21:23	321-60-8	
p-Terphenyl-d14 (S)	46	%.	35-115	1	10/08/18 10:40	10/08/18 21:23	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**28.9**	%	0.10	1		10/03/18 10:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-22-GW-4-14 **Lab ID: 50206817011** Collected: 09/26/18 17:25 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 18:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 18:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 18:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 18:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 18:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 18:55	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/05/18 18:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 18:55	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 18:55	193-39-5	
1-Methylnaphthalene	**13.9**	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	90-12-0	N2
2-Methylnaphthalene	**4.5**	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	91-57-6	
Naphthalene	**2.1**	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 18:55	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	50	%.	10-108	1	10/02/18 18:00	10/05/18 18:55	321-60-8	
p-Terphenyl-d14 (S)	50	%.	10-167	1	10/02/18 18:00	10/05/18 18:55	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2000	20		10/10/18 10:58	67-64-1	M5
Acrolein	ND	ug/L	1000	20		10/10/18 10:58	107-02-8	M5
Acrylonitrile	ND	ug/L	2000	20		10/10/18 10:58	107-13-1	M5
Benzene	ND	ug/L	100	20		10/10/18 10:58	71-43-2	M5
Bromobenzene	ND	ug/L	100	20		10/10/18 10:58	108-86-1	M5
Bromochloromethane	ND	ug/L	100	20		10/10/18 10:58	74-97-5	M5
Bromodichloromethane	ND	ug/L	100	20		10/10/18 10:58	75-27-4	M5
Bromoform	ND	ug/L	100	20		10/10/18 10:58	75-25-2	M5
Bromomethane	ND	ug/L	100	20		10/10/18 10:58	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	500	20		10/10/18 10:58	78-93-3	M5
n-Butylbenzene	ND	ug/L	100	20		10/10/18 10:58	104-51-8	M5
sec-Butylbenzene	ND	ug/L	100	20		10/10/18 10:58	135-98-8	M5
tert-Butylbenzene	ND	ug/L	100	20		10/10/18 10:58	98-06-6	M5
Carbon disulfide	ND	ug/L	200	20		10/10/18 10:58	75-15-0	M5
Carbon tetrachloride	ND	ug/L	100	20		10/10/18 10:58	56-23-5	M5
Chlorobenzene	ND	ug/L	100	20		10/10/18 10:58	108-90-7	M5
Chloroethane	ND	ug/L	100	20		10/10/18 10:58	75-00-3	M5
Chloroform	ND	ug/L	100	20		10/10/18 10:58	67-66-3	M5
Chloromethane	ND	ug/L	100	20		10/10/18 10:58	74-87-3	M5
2-Chlorotoluene	ND	ug/L	100	20		10/10/18 10:58	95-49-8	M5
4-Chlorotoluene	ND	ug/L	100	20		10/10/18 10:58	106-43-4	M5
Dibromochloromethane	ND	ug/L	100	20		10/10/18 10:58	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	100	20		10/10/18 10:58	106-93-4	M5
Dibromomethane	ND	ug/L	100	20		10/10/18 10:58	74-95-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-22-GW-4-14 **Lab ID: 50206817011** Collected: 09/26/18 17:25 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	100	20		10/10/18 10:58	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	100	20		10/10/18 10:58	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	100	20		10/10/18 10:58	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	2000	20		10/10/18 10:58	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	100	20		10/10/18 10:58	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	100	20		10/10/18 10:58	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	100	20		10/10/18 10:58	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	100	20		10/10/18 10:58	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	100	20		10/10/18 10:58	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	100	20		10/10/18 10:58	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	100	20		10/10/18 10:58	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	100	20		10/10/18 10:58	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	100	20		10/10/18 10:58	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	100	20		10/10/18 10:58	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	100	20		10/10/18 10:58	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	100	20		10/10/18 10:58	10061-02-6	M5
Ethylbenzene	ND	ug/L	100	20		10/10/18 10:58	100-41-4	M5
Ethyl methacrylate	ND	ug/L	2000	20		10/10/18 10:58	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	100	20		10/10/18 10:58	87-68-3	M5
n-Hexane	ND	ug/L	100	20		10/10/18 10:58	110-54-3	M5
2-Hexanone	ND	ug/L	500	20		10/10/18 10:58	591-78-6	M5
Iodomethane	ND	ug/L	200	20		10/10/18 10:58	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/L	100	20		10/10/18 10:58	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	100	20		10/10/18 10:58	99-87-6	M5
Methylene Chloride	ND	ug/L	100	20		10/10/18 10:58	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	20		10/10/18 10:58	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/L	80.0	20		10/10/18 10:58	1634-04-4	M5
Naphthalene	ND	ug/L	100	20		10/10/18 10:58	91-20-3	M5
n-Propylbenzene	ND	ug/L	100	20		10/10/18 10:58	103-65-1	M5
Styrene	ND	ug/L	100	20		10/10/18 10:58	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	100	20		10/10/18 10:58	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	100	20		10/10/18 10:58	79-34-5	M5
Tetrachloroethene	ND	ug/L	100	20		10/10/18 10:58	127-18-4	M5
Toluene	ND	ug/L	100	20		10/10/18 10:58	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	100	20		10/10/18 10:58	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	100	20		10/10/18 10:58	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	100	20		10/10/18 10:58	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	100	20		10/10/18 10:58	79-00-5	M5
Trichloroethene	ND	ug/L	100	20		10/10/18 10:58	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	100	20		10/10/18 10:58	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	100	20		10/10/18 10:58	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	100	20		10/10/18 10:58	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	100	20		10/10/18 10:58	108-67-8	M5
Vinyl acetate	ND	ug/L	1000	20		10/10/18 10:58	108-05-4	M5
Vinyl chloride	ND	ug/L	40.0	20		10/10/18 10:58	75-01-4	M5
Xylene (Total)	ND	ug/L	200	20		10/10/18 10:58	1330-20-7	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-22-GW-4-14 **Lab ID: 50206817011** Collected: 09/26/18 17:25 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	105	%.	89-116	20		10/10/18 10:58	1868-53-7	F1,M5
4-Bromofluorobenzene (S)	99	%.	85-111	20		10/10/18 10:58	460-00-4	M5
Toluene-d8 (S)	100	%.	87-110	20		10/10/18 10:58	2037-26-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-18-GW-1-11 **Lab ID: 50206817012** Collected: 09/26/18 18:10 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:05	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/05/18 19:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:05	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:05	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	20	%.	10-108	1	10/02/18 18:00	10/05/18 19:05	321-60-8	
p-Terphenyl-d14 (S)	36	%.	10-167	1	10/02/18 18:00	10/05/18 19:05	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/10/18 11:30	67-64-1	M5
Acrolein	ND	ug/L	50.0	1		10/10/18 11:30	107-02-8	M5
Acrylonitrile	ND	ug/L	100	1		10/10/18 11:30	107-13-1	M5
Benzene	ND	ug/L	5.0	1		10/10/18 11:30	71-43-2	M5
Bromobenzene	ND	ug/L	5.0	1		10/10/18 11:30	108-86-1	M5
Bromochloromethane	ND	ug/L	5.0	1		10/10/18 11:30	74-97-5	M5
Bromodichloromethane	ND	ug/L	5.0	1		10/10/18 11:30	75-27-4	M5
Bromoform	ND	ug/L	5.0	1		10/10/18 11:30	75-25-2	M5
Bromomethane	ND	ug/L	5.0	1		10/10/18 11:30	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	25.0	1		10/10/18 11:30	78-93-3	M5
n-Butylbenzene	ND	ug/L	5.0	1		10/10/18 11:30	104-51-8	M5
sec-Butylbenzene	ND	ug/L	5.0	1		10/10/18 11:30	135-98-8	M5
tert-Butylbenzene	ND	ug/L	5.0	1		10/10/18 11:30	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		10/10/18 11:30	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		10/10/18 11:30	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		10/10/18 11:30	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		10/10/18 11:30	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		10/10/18 11:30	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		10/10/18 11:30	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		10/10/18 11:30	95-49-8	M5
4-Chlorotoluene	ND	ug/L	5.0	1		10/10/18 11:30	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		10/10/18 11:30	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/10/18 11:30	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		10/10/18 11:30	74-95-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-18-GW-1-11 **Lab ID: 50206817012** Collected: 09/26/18 18:10 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/10/18 11:30	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/10/18 11:30	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/10/18 11:30	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/10/18 11:30	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/10/18 11:30	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		10/10/18 11:30	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		10/10/18 11:30	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		10/10/18 11:30	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/10/18 11:30	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/10/18 11:30	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		10/10/18 11:30	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		10/10/18 11:30	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		10/10/18 11:30	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		10/10/18 11:30	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/10/18 11:30	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/10/18 11:30	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1		10/10/18 11:30	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		10/10/18 11:30	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/10/18 11:30	87-68-3	M5
n-Hexane	ND	ug/L	5.0	1		10/10/18 11:30	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		10/10/18 11:30	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		10/10/18 11:30	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/10/18 11:30	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	5.0	1		10/10/18 11:30	99-87-6	M5
Methylene Chloride	ND	ug/L	5.0	1		10/10/18 11:30	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/10/18 11:30	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/10/18 11:30	1634-04-4	M5
Naphthalene	ND	ug/L	5.0	1		10/10/18 11:30	91-20-3	M5
n-Propylbenzene	ND	ug/L	5.0	1		10/10/18 11:30	103-65-1	M5
Styrene	ND	ug/L	5.0	1		10/10/18 11:30	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/10/18 11:30	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/10/18 11:30	79-34-5	M5
Tetrachloroethene	ND	ug/L	5.0	1		10/10/18 11:30	127-18-4	M5
Toluene	ND	ug/L	5.0	1		10/10/18 11:30	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/10/18 11:30	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/10/18 11:30	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/10/18 11:30	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/10/18 11:30	79-00-5	M5
Trichloroethene	ND	ug/L	5.0	1		10/10/18 11:30	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	5.0	1		10/10/18 11:30	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/10/18 11:30	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/10/18 11:30	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/10/18 11:30	108-67-8	M5
Vinyl acetate	ND	ug/L	50.0	1		10/10/18 11:30	108-05-4	M5
Vinyl chloride	ND	ug/L	2.0	1		10/10/18 11:30	75-01-4	M5
Xylene (Total)	ND	ug/L	10.0	1		10/10/18 11:30	1330-20-7	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-18-GW-1-11 **Lab ID: 50206817012** Collected: 09/26/18 18:10 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	109	%.	89-116	1		10/10/18 11:30	1868-53-7	M5
4-Bromofluorobenzene (S)	97	%.	85-111	1		10/10/18 11:30	460-00-4	M5
Toluene-d8 (S)	98	%.	87-110	1		10/10/18 11:30	2037-26-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-20-GW-0-10 **Lab ID: 50206817013** Collected: 09/26/18 18:30 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	**1.2**	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:14	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:14	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/05/18 19:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:14	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	206-44-0	
Fluorene	**1.4**	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/05/18 19:14	193-39-5	
1-Methylnaphthalene	**27.7**	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	90-12-0	N2
2-Methylnaphthalene	**30.5**	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	91-57-6	
Naphthalene	**1.4**	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	91-20-3	
Phenanthrene	**1.3**	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/05/18 19:14	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	34	%.	10-108	1	10/02/18 18:00	10/05/18 19:14	321-60-8	
p-Terphenyl-d14 (S)	42	%.	10-167	1	10/02/18 18:00	10/05/18 19:14	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/10/18 12:02	67-64-1	M5
Acrolein	ND	ug/L	50.0	1		10/10/18 12:02	107-02-8	M5
Acrylonitrile	ND	ug/L	100	1		10/10/18 12:02	107-13-1	M5
Benzene	**105**	ug/L	5.0	1		10/10/18 12:02	71-43-2	M5
Bromobenzene	ND	ug/L	5.0	1		10/10/18 12:02	108-86-1	M5
Bromochloromethane	ND	ug/L	5.0	1		10/10/18 12:02	74-97-5	M5
Bromodichloromethane	ND	ug/L	5.0	1		10/10/18 12:02	75-27-4	M5
Bromoform	ND	ug/L	5.0	1		10/10/18 12:02	75-25-2	M5
Bromomethane	ND	ug/L	5.0	1		10/10/18 12:02	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	25.0	1		10/10/18 12:02	78-93-3	M5
n-Butylbenzene	**6.7**	ug/L	5.0	1		10/10/18 12:02	104-51-8	M5
sec-Butylbenzene	**5.7**	ug/L	5.0	1		10/10/18 12:02	135-98-8	M5
tert-Butylbenzene	ND	ug/L	5.0	1		10/10/18 12:02	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		10/10/18 12:02	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		10/10/18 12:02	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		10/10/18 12:02	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		10/10/18 12:02	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		10/10/18 12:02	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		10/10/18 12:02	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		10/10/18 12:02	95-49-8	M5
4-Chlorotoluene	ND	ug/L	5.0	1		10/10/18 12:02	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		10/10/18 12:02	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/10/18 12:02	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		10/10/18 12:02	74-95-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-20-GW-0-10 **Lab ID: 50206817013** Collected: 09/26/18 18:30 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/10/18 12:02	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/10/18 12:02	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/10/18 12:02	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/10/18 12:02	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/10/18 12:02	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		10/10/18 12:02	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		10/10/18 12:02	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		10/10/18 12:02	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/10/18 12:02	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/10/18 12:02	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		10/10/18 12:02	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		10/10/18 12:02	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		10/10/18 12:02	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		10/10/18 12:02	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/10/18 12:02	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/10/18 12:02	10061-02-6	M5
Ethylbenzene	**5.2**	ug/L	5.0	1		10/10/18 12:02	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		10/10/18 12:02	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/10/18 12:02	87-68-3	M5
n-Hexane	**18.4**	ug/L	5.0	1		10/10/18 12:02	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		10/10/18 12:02	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		10/10/18 12:02	74-88-4	M5
Isopropylbenzene (Cumene)	**22.6**	ug/L	5.0	1		10/10/18 12:02	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	5.0	1		10/10/18 12:02	99-87-6	M5
Methylene Chloride	ND	ug/L	5.0	1		10/10/18 12:02	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/10/18 12:02	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/10/18 12:02	1634-04-4	M5
Naphthalene	ND	ug/L	5.0	1		10/10/18 12:02	91-20-3	M5
n-Propylbenzene	**29.5**	ug/L	5.0	1		10/10/18 12:02	103-65-1	M5
Styrene	ND	ug/L	5.0	1		10/10/18 12:02	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/10/18 12:02	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/10/18 12:02	79-34-5	M5
Tetrachloroethene	ND	ug/L	5.0	1		10/10/18 12:02	127-18-4	M5
Toluene	**5.6**	ug/L	5.0	1		10/10/18 12:02	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/10/18 12:02	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/10/18 12:02	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/10/18 12:02	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/10/18 12:02	79-00-5	M5
Trichloroethene	ND	ug/L	5.0	1		10/10/18 12:02	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	5.0	1		10/10/18 12:02	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/10/18 12:02	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/10/18 12:02	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/10/18 12:02	108-67-8	M5
Vinyl acetate	ND	ug/L	50.0	1		10/10/18 12:02	108-05-4	M5
Vinyl chloride	ND	ug/L	2.0	1		10/10/18 12:02	75-01-4	M5
Xylene (Total)	ND	ug/L	10.0	1		10/10/18 12:02	1330-20-7	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206666

Sample: SB-20-GW-0-10 **Lab ID: 50206817013** Collected: 09/26/18 18:30 Received: 10/02/18 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	109	%.	89-116	1		10/10/18 12:02	1868-53-7	M5
4-Bromofluorobenzene (S)	102	%.	85-111	1		10/10/18 12:02	460-00-4	M5
Toluene-d8 (S)	101	%.	87-110	1		10/10/18 12:02	2037-26-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 464720 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 50206817005

METHOD BLANK: 2145045 Matrix: Solid
Associated Lab Samples: 50206817005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	10/05/18 12:50	

LABORATORY CONTROL SAMPLE: 2145046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.49	0.46	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2145047 2145048

Parameter	Units	50206896008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.58	.62	0.59	0.63	97	97	75-125	6	20	

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

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 464724
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 50206817005

METHOD BLANK: 2145057 Matrix: Solid
Associated Lab Samples: 50206817005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	10/06/18 09:51	
Barium	mg/kg	ND	1.0	10/06/18 09:51	
Cadmium	mg/kg	ND	0.50	10/06/18 09:51	
Chromium	mg/kg	3.5	1.0	10/06/18 09:51	B
Lead	mg/kg	ND	1.0	10/06/18 09:51	
Selenium	mg/kg	ND	1.0	10/06/18 09:51	
Silver	mg/kg	ND	0.50	10/06/18 09:51	

LABORATORY CONTROL SAMPLE: 2145058

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.3	97	80-120	
Barium	mg/kg	50	50.0	100	80-120	
Cadmium	mg/kg	50	48.4	97	80-120	
Chromium	mg/kg	50	55.0	110	80-120	
Lead	mg/kg	50	46.2	92	80-120	
Selenium	mg/kg	50	48.6	97	80-120	
Silver	mg/kg	25	23.6	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2145059 2145060

Parameter	Units	50206863001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	ND	47.6	49.7	29.3J	29.2J	62	59	75-125		20	M3
Barium	mg/kg	3250	47.6	49.7	3540	3550	615	606	75-125	0	20	P6
Cadmium	mg/kg	ND	47.6	49.7	50.9	52.1	107	104	75-125	2	20	
Chromium	mg/kg	79000	47.6	49.7	79700	79600	1420	1070	75-125	0	20	P6
Lead	mg/kg	ND	47.6	49.7	60.9	65.2	97	102	75-125	7	20	
Selenium	mg/kg	ND	47.6	49.7	34J	37.8J	56	61	75-125		20	M3
Silver	mg/kg	ND	23.8	24.9	22.4J	21.5J	94	86	75-125		20	

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 465774 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50206817011, 50206817012, 50206817013

METHOD BLANK: 2149702 Matrix: Water
Associated Lab Samples: 50206817011, 50206817012, 50206817013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/10/18 03:27	M5
1,1,1-Trichloroethane	ug/L	ND	5.0	10/10/18 03:27	M5
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/10/18 03:27	M5
1,1,2-Trichloroethane	ug/L	ND	5.0	10/10/18 03:27	M5
1,1-Dichloroethane	ug/L	ND	5.0	10/10/18 03:27	M5
1,1-Dichloroethene	ug/L	ND	5.0	10/10/18 03:27	M5
1,1-Dichloropropene	ug/L	ND	5.0	10/10/18 03:27	M5
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/10/18 03:27	M5
1,2,3-Trichloropropane	ug/L	ND	5.0	10/10/18 03:27	M5
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/10/18 03:27	M5
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/10/18 03:27	M5
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/10/18 03:27	M5
1,2-Dichlorobenzene	ug/L	ND	5.0	10/10/18 03:27	M5
1,2-Dichloroethane	ug/L	ND	5.0	10/10/18 03:27	M5
1,2-Dichloropropane	ug/L	ND	5.0	10/10/18 03:27	M5
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/10/18 03:27	M5
1,3-Dichlorobenzene	ug/L	ND	5.0	10/10/18 03:27	M5
1,3-Dichloropropane	ug/L	ND	5.0	10/10/18 03:27	M5
1,4-Dichlorobenzene	ug/L	ND	5.0	10/10/18 03:27	M5
2,2-Dichloropropane	ug/L	ND	5.0	10/10/18 03:27	M5
2-Butanone (MEK)	ug/L	ND	25.0	10/10/18 03:27	M5
2-Chlorotoluene	ug/L	ND	5.0	10/10/18 03:27	M5
2-Hexanone	ug/L	ND	25.0	10/10/18 03:27	M5
4-Chlorotoluene	ug/L	ND	5.0	10/10/18 03:27	M5
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/10/18 03:27	M5
Acetone	ug/L	ND	100	10/10/18 03:27	M5
Acrolein	ug/L	ND	50.0	10/10/18 03:27	M5
Acrylonitrile	ug/L	ND	100	10/10/18 03:27	M5
Benzene	ug/L	ND	5.0	10/10/18 03:27	M5
Bromobenzene	ug/L	ND	5.0	10/10/18 03:27	M5
Bromochloromethane	ug/L	ND	5.0	10/10/18 03:27	M5
Bromodichloromethane	ug/L	ND	5.0	10/10/18 03:27	M5
Bromoform	ug/L	ND	5.0	10/10/18 03:27	M5
Bromomethane	ug/L	ND	5.0	10/10/18 03:27	M5
Carbon disulfide	ug/L	ND	10.0	10/10/18 03:27	M5
Carbon tetrachloride	ug/L	ND	5.0	10/10/18 03:27	M5
Chlorobenzene	ug/L	ND	5.0	10/10/18 03:27	M5
Chloroethane	ug/L	ND	5.0	10/10/18 03:27	M5
Chloroform	ug/L	ND	5.0	10/10/18 03:27	M5
Chloromethane	ug/L	ND	5.0	10/10/18 03:27	M5
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/10/18 03:27	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

METHOD BLANK: 2149702 Matrix: Water
Associated Lab Samples: 50206817011, 50206817012, 50206817013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/10/18 03:27	M5
Dibromochloromethane	ug/L	ND	5.0	10/10/18 03:27	M5
Dibromomethane	ug/L	ND	5.0	10/10/18 03:27	M5
Dichlorodifluoromethane	ug/L	ND	5.0	10/10/18 03:27	M5
Ethyl methacrylate	ug/L	ND	100	10/10/18 03:27	M5
Ethylbenzene	ug/L	ND	5.0	10/10/18 03:27	M5
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/10/18 03:27	M5
Iodomethane	ug/L	ND	10.0	10/10/18 03:27	M5
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/10/18 03:27	M5
Methyl-tert-butyl ether	ug/L	ND	4.0	10/10/18 03:27	M5
Methylene Chloride	ug/L	ND	5.0	10/10/18 03:27	M5
n-Butylbenzene	ug/L	ND	5.0	10/10/18 03:27	M5
n-Hexane	ug/L	ND	5.0	10/10/18 03:27	M5
n-Propylbenzene	ug/L	ND	5.0	10/10/18 03:27	M5
Naphthalene	ug/L	ND	5.0	10/10/18 03:27	M5
p-Isopropyltoluene	ug/L	ND	5.0	10/10/18 03:27	M5
sec-Butylbenzene	ug/L	ND	5.0	10/10/18 03:27	M5
Styrene	ug/L	ND	5.0	10/10/18 03:27	M5
tert-Butylbenzene	ug/L	ND	5.0	10/10/18 03:27	M5
Tetrachloroethene	ug/L	ND	5.0	10/10/18 03:27	M5
Toluene	ug/L	ND	5.0	10/10/18 03:27	M5
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/10/18 03:27	M5
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/10/18 03:27	M5
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/10/18 03:27	M5
Trichloroethene	ug/L	ND	5.0	10/10/18 03:27	M5
Trichlorofluoromethane	ug/L	ND	5.0	10/10/18 03:27	M5
Vinyl acetate	ug/L	ND	50.0	10/10/18 03:27	M5
Vinyl chloride	ug/L	ND	2.0	10/10/18 03:27	M5
Xylene (Total)	ug/L	ND	10.0	10/10/18 03:27	M5
4-Bromofluorobenzene (S)	%.	99	85-111	10/10/18 03:27	M5
Dibromofluoromethane (S)	%.	107	89-116	10/10/18 03:27	M5
Toluene-d8 (S)	%.	101	87-110	10/10/18 03:27	M5

LABORATORY CONTROL SAMPLE: 2149703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	80-120	M5
1,1,1-Trichloroethane	ug/L	50	52.8	106	74-126	M5
1,1,2,2-Tetrachloroethane	ug/L	50	46.4	93	73-117	M5
1,1,2-Trichloroethane	ug/L	50	47.0	94	74-119	M5
1,1-Dichloroethane	ug/L	50	48.4	97	72-119	M5
1,1-Dichloroethene	ug/L	50	51.0	102	72-123	M5
1,1-Dichloropropene	ug/L	50	51.6	103	77-125	M5
1,2,3-Trichlorobenzene	ug/L	50	49.8	100	74-125	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

LABORATORY CONTROL SAMPLE: 2149703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	46.1	92	82-121	M5
1,2,4-Trichlorobenzene	ug/L	50	49.5	99	70-125	M5
1,2,4-Trimethylbenzene	ug/L	50	48.3	97	76-118	M5
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	80-120	M5
1,2-Dichlorobenzene	ug/L	50	51.6	103	77-117	M5
1,2-Dichloroethane	ug/L	50	55.2	110	69-122	M5
1,2-Dichloropropane	ug/L	50	48.6	97	75-124	M5
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	75-117	M5
1,3-Dichlorobenzene	ug/L	50	50.9	102	76-116	M5
1,3-Dichloropropane	ug/L	50	53.0	106	82-118	M5
1,4-Dichlorobenzene	ug/L	50	50.6	101	74-115	M5
2,2-Dichloropropane	ug/L	50	43.4	87	51-133	M5
2-Butanone (MEK)	ug/L	250	233	93	72-147	M5
2-Chlorotoluene	ug/L	50	47.5	95	73-113	M5
2-Hexanone	ug/L	250	234	94	71-132	M5
4-Chlorotoluene	ug/L	50	48.0	96	78-118	M5
4-Methyl-2-pentanone (MIBK)	ug/L	250	236	95	89-128	M5
Acetone	ug/L	250	240	96	46-170	M5
Acrolein	ug/L	1000	1080	108	13-200	M5
Acrylonitrile	ug/L	200	198	99	65-130	M5
Benzene	ug/L	50	49.0	98	78-117	M5
Bromobenzene	ug/L	50	51.4	103	66-126	M5
Bromochloromethane	ug/L	50	47.0	94	76-120	M5
Bromodichloromethane	ug/L	50	55.2	110	76-120	M5
Bromoform	ug/L	50	47.4	95	70-124	M5
Bromomethane	ug/L	50	66.1	132	29-181	M5
Carbon disulfide	ug/L	50	50.2	100	66-123	M5
Carbon tetrachloride	ug/L	50	51.3	103	73-132	M5
Chlorobenzene	ug/L	50	53.0	106	79-112	M5
Chloroethane	ug/L	50	48.5	97	59-156	M5
Chloroform	ug/L	50	52.3	105	76-118	M5
Chloromethane	ug/L	50	32.0	64	45-142	M5
cis-1,2-Dichloroethene	ug/L	50	54.2	108	75-117	M5
cis-1,3-Dichloropropene	ug/L	50	47.8	96	77-120	M5
Dibromochloromethane	ug/L	50	51.1	102	78-123	M5
Dibromomethane	ug/L	50	48.8	98	78-122	M5
Dichlorodifluoromethane	ug/L	50	39.9	80	41-168	M5
Ethyl methacrylate	ug/L	200	202	101	75-128	M5
Ethylbenzene	ug/L	50	51.1	102	80-118	M5
Hexachloro-1,3-butadiene	ug/L	50	46.5	93	73-125	M5
Iodomethane	ug/L	100	55.4	55	35-174	M5
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	81-117	M5
Methyl-tert-butyl ether	ug/L	50	56.7	113	71-124	M5
Methylene Chloride	ug/L	50	48.6	97	59-136	M5
n-Butylbenzene	ug/L	50	46.9	94	72-118	M5
n-Hexane	ug/L	50	40.8	82	60-128	M5
n-Propylbenzene	ug/L	50	48.4	97	75-120	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

LABORATORY CONTROL SAMPLE: 2149703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	47.0	94	67-126	M5
p-Isopropyltoluene	ug/L	50	49.8	100	75-115	M5
sec-Butylbenzene	ug/L	50	49.2	98	76-120	M5
Styrene	ug/L	50	52.7	105	74-121	M5
tert-Butylbenzene	ug/L	50	38.8	78	55-109	M5
Tetrachloroethene	ug/L	50	50.5	101	76-116	M5
Toluene	ug/L	50	47.5	95	77-115	M5
trans-1,2-Dichloroethene	ug/L	50	51.4	103	75-121	M5
trans-1,3-Dichloropropene	ug/L	50	46.8	94	77-121	M5
trans-1,4-Dichloro-2-butene	ug/L	200	173	87	42-128	M5
Trichloroethene	ug/L	50	52.4	105	76-120	M5
Trichlorofluoromethane	ug/L	50	53.8	108	81-141	M5
Vinyl acetate	ug/L	200	222	111	67-131	M5
Vinyl chloride	ug/L	50	43.0	86	64-155	M5
Xylene (Total)	ug/L	150	154	103	78-118	M5
4-Bromofluorobenzene (S)	%.			103	85-111	M5
Dibromofluoromethane (S)	%.			108	89-116	M5
Toluene-d8 (S)	%.			98	87-110	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 464877 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206666001, 50206666002, 50206666003, 50206666004, 50206666005, 50206666008, 50206666010, 50206666011

METHOD BLANK: 2145713 Matrix: Solid
Associated Lab Samples: 50206666001, 50206666002, 50206666003, 50206666004, 50206666005, 50206666008, 50206666010, 50206666011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/03/18 14:06	
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/03/18 14:06	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/03/18 14:06	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/03/18 14:06	
1,1-Dichloroethane	ug/kg	ND	5.0	10/03/18 14:06	
1,1-Dichloroethene	ug/kg	ND	5.0	10/03/18 14:06	
1,1-Dichloropropene	ug/kg	ND	5.0	10/03/18 14:06	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/03/18 14:06	
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/03/18 14:06	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/03/18 14:06	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/03/18 14:06	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/03/18 14:06	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/03/18 14:06	
1,2-Dichloroethane	ug/kg	ND	5.0	10/03/18 14:06	
1,2-Dichloropropane	ug/kg	ND	5.0	10/03/18 14:06	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/03/18 14:06	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/03/18 14:06	
1,3-Dichloropropane	ug/kg	ND	5.0	10/03/18 14:06	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/03/18 14:06	
2,2-Dichloropropane	ug/kg	ND	5.0	10/03/18 14:06	
2-Butanone (MEK)	ug/kg	ND	25.0	10/03/18 14:06	
2-Chlorotoluene	ug/kg	ND	5.0	10/03/18 14:06	
2-Hexanone	ug/kg	ND	100	10/03/18 14:06	
4-Chlorotoluene	ug/kg	ND	5.0	10/03/18 14:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/03/18 14:06	
Acetone	ug/kg	ND	100	10/03/18 14:06	
Acrolein	ug/kg	ND	100	10/03/18 14:06	
Acrylonitrile	ug/kg	ND	100	10/03/18 14:06	
Benzene	ug/kg	ND	5.0	10/03/18 14:06	
Bromobenzene	ug/kg	ND	5.0	10/03/18 14:06	
Bromochloromethane	ug/kg	ND	5.0	10/03/18 14:06	
Bromodichloromethane	ug/kg	ND	5.0	10/03/18 14:06	
Bromoform	ug/kg	ND	5.0	10/03/18 14:06	
Bromomethane	ug/kg	ND	5.0	10/03/18 14:06	
Carbon disulfide	ug/kg	ND	10.0	10/03/18 14:06	
Carbon tetrachloride	ug/kg	ND	5.0	10/03/18 14:06	
Chlorobenzene	ug/kg	ND	5.0	10/03/18 14:06	
Chloroethane	ug/kg	ND	5.0	10/03/18 14:06	
Chloroform	ug/kg	ND	5.0	10/03/18 14:06	
Chloromethane	ug/kg	ND	5.0	10/03/18 14:06	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

METHOD BLANK: 2145713 Matrix: Solid
Associated Lab Samples: 50206666001, 50206666002, 50206666003, 50206666004, 50206666005, 50206666008, 50206666010, 50206666011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/03/18 14:06	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/03/18 14:06	
Dibromochloromethane	ug/kg	ND	5.0	10/03/18 14:06	
Dibromomethane	ug/kg	ND	5.0	10/03/18 14:06	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/03/18 14:06	
Ethyl methacrylate	ug/kg	ND	100	10/03/18 14:06	
Ethylbenzene	ug/kg	ND	5.0	10/03/18 14:06	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/03/18 14:06	
Iodomethane	ug/kg	ND	100	10/03/18 14:06	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/03/18 14:06	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/03/18 14:06	
Methylene Chloride	ug/kg	ND	20.0	10/03/18 14:06	
n-Butylbenzene	ug/kg	ND	5.0	10/03/18 14:06	
n-Hexane	ug/kg	ND	5.0	10/03/18 14:06	
n-Propylbenzene	ug/kg	ND	5.0	10/03/18 14:06	
Naphthalene	ug/kg	ND	5.0	10/03/18 14:06	
p-Isopropyltoluene	ug/kg	ND	5.0	10/03/18 14:06	
sec-Butylbenzene	ug/kg	ND	5.0	10/03/18 14:06	
Styrene	ug/kg	ND	5.0	10/03/18 14:06	
tert-Butylbenzene	ug/kg	ND	5.0	10/03/18 14:06	
Tetrachloroethene	ug/kg	ND	5.0	10/03/18 14:06	
Toluene	ug/kg	ND	5.0	10/03/18 14:06	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/03/18 14:06	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/03/18 14:06	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/03/18 14:06	
Trichloroethene	ug/kg	ND	5.0	10/03/18 14:06	
Trichlorofluoromethane	ug/kg	ND	5.0	10/03/18 14:06	
Vinyl acetate	ug/kg	ND	100	10/03/18 14:06	
Vinyl chloride	ug/kg	ND	5.0	10/03/18 14:06	
Xylene (Total)	ug/kg	ND	10.0	10/03/18 14:06	
4-Bromofluorobenzene (S)	%.	95	57-130	10/03/18 14:06	
Dibromofluoromethane (S)	%.	122	80-127	10/03/18 14:06	
Toluene-d8 (S)	%.	86	72-136	10/03/18 14:06	

LABORATORY CONTROL SAMPLE: 2145714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	56.4	113	71-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.2	92	74-121	
1,1-Dichloroethene	ug/kg	50	49.9	100	71-125	
1,2,4-Trimethylbenzene	ug/kg	50	44.7	89	73-111	
1,2-Dichloropropane	ug/kg	50	47.1	94	76-120	
Benzene	ug/kg	50	49.5	99	77-117	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

LABORATORY CONTROL SAMPLE: 2145714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/kg	50	47.8	96	77-111	
Chloroform	ug/kg	50	49.6	99	74-114	
cis-1,2-Dichloroethene	ug/kg	50	50.0	100	74-118	
Ethylbenzene	ug/kg	50	45.8	92	73-114	
Isopropylbenzene (Cumene)	ug/kg	50	51.3	103	78-113	
Methyl-tert-butyl ether	ug/kg	50	52.8	106	75-119	
Naphthalene	ug/kg	50	54.4	109	70-115	
Tetrachloroethene	ug/kg	50	48.7	97	72-117	
Toluene	ug/kg	50	42.6	85	77-111	
trans-1,2-Dichloroethene	ug/kg	50	48.0	96	73-121	
Trichloroethene	ug/kg	50	51.4	103	73-119	
Vinyl chloride	ug/kg	50	53.1	106	57-160	
Xylene (Total)	ug/kg	150	142	95	74-111	
4-Bromofluorobenzene (S)	%.			99	57-130	
Dibromofluoromethane (S)	%.			104	80-127	
Toluene-d8 (S)	%.			90	72-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2145715 2145716

Parameter	Units	50206655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	61.1	61.1	60.5	56.5	99	92	51-139	7	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	61.1	61.1	59.5	52.4	97	86	22-173	13	20	
1,1-Dichloroethene	ug/kg	ND	61.1	61.1	59.4	55.0	97	90	52-144	8	20	
1,2,4-Trimethylbenzene	ug/kg	ND	61.1	61.1	44.9	40.3	73	66	10-163	11	20	
1,2-Dichloropropane	ug/kg	ND	61.1	61.1	57.2	52.9	94	87	47-136	8	20	
Benzene	ug/kg	ND	61.1	61.1	59.4	54.7	97	90	46-136	8	20	
Chlorobenzene	ug/kg	ND	61.1	61.1	51.8	47.4	85	78	22-138	9	20	
Chloroform	ug/kg	ND	61.1	61.1	55.4	49.9	91	82	53-129	10	20	
cis-1,2-Dichloroethene	ug/kg	ND	61.1	61.1	58.4	53.2	96	87	52-131	9	20	
Ethylbenzene	ug/kg	ND	61.1	61.1	49.9	45.7	82	75	20-142	9	20	
Isopropylbenzene (Cumene)	ug/kg	ND	61.1	61.1	53.3	49.9	87	82	14-149	7	20	
Methyl-tert-butyl ether	ug/kg	ND	61.1	61.1	65.0	59.1	106	97	64-135	9	20	
Naphthalene	ug/kg	ND	61.1	61.1	59.4	52.6	97	86	10-128	12	20	
Tetrachloroethene	ug/kg	ND	61.1	61.1	57.3	53.3	94	87	24-151	7	20	
Toluene	ug/kg	ND	61.1	61.1	51.0	47.0	83	77	36-140	8	20	
trans-1,2-Dichloroethene	ug/kg	ND	61.1	61.1	55.6	50.9	91	83	53-135	9	20	
Trichloroethene	ug/kg	ND	61.1	61.1	57.6	53.5	94	88	31-149	7	20	
Vinyl chloride	ug/kg	ND	61.1	61.1	59.5	56.1	97	92	46-171	6	20	
Xylene (Total)	ug/kg	ND	183	183	153	142	84	78	16-142	7	20	
4-Bromofluorobenzene (S)	%.						102	105	57-130			
Dibromofluoromethane (S)	%.						95	98	80-127			
Toluene-d8 (S)	%.						94	93	72-136			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 464997
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206666007

METHOD BLANK: 2146307
Matrix: Solid
Associated Lab Samples: 50206666007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,1-Dichloroethane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,1-Dichloroethene	ug/kg	ND	5.0	10/04/18 23:53	M5
1,1-Dichloropropene	ug/kg	ND	5.0	10/04/18 23:53	M5
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/04/18 23:53	M5
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
1,2-Dichloroethane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,2-Dichloropropane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
1,3-Dichloropropane	ug/kg	ND	5.0	10/04/18 23:53	M5
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
2,2-Dichloropropane	ug/kg	ND	5.0	10/04/18 23:53	M5
2-Butanone (MEK)	ug/kg	ND	25.0	10/04/18 23:53	M5
2-Chlorotoluene	ug/kg	ND	5.0	10/04/18 23:53	M5
2-Hexanone	ug/kg	ND	100	10/04/18 23:53	M5
4-Chlorotoluene	ug/kg	ND	5.0	10/04/18 23:53	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/04/18 23:53	M5
Acetone	ug/kg	ND	100	10/04/18 23:53	M5
Acrolein	ug/kg	ND	100	10/04/18 23:53	M5
Acrylonitrile	ug/kg	ND	100	10/04/18 23:53	M5
Benzene	ug/kg	ND	5.0	10/04/18 23:53	M5
Bromobenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
Bromochloromethane	ug/kg	ND	5.0	10/04/18 23:53	M5
Bromodichloromethane	ug/kg	ND	5.0	10/04/18 23:53	M5
Bromoform	ug/kg	ND	5.0	10/04/18 23:53	M5
Bromomethane	ug/kg	ND	5.0	10/04/18 23:53	M5
Carbon disulfide	ug/kg	ND	10.0	10/04/18 23:53	M5
Carbon tetrachloride	ug/kg	ND	5.0	10/04/18 23:53	M5
Chlorobenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
Chloroethane	ug/kg	ND	5.0	10/04/18 23:53	M5
Chloroform	ug/kg	ND	5.0	10/04/18 23:53	M5
Chloromethane	ug/kg	ND	5.0	10/04/18 23:53	M5
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/04/18 23:53	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

METHOD BLANK: 2146307 Matrix: Solid
Associated Lab Samples: 50206666007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/04/18 23:53	M5
Dibromochloromethane	ug/kg	ND	5.0	10/04/18 23:53	M5
Dibromomethane	ug/kg	ND	5.0	10/04/18 23:53	M5
Dichlorodifluoromethane	ug/kg	ND	5.0	10/04/18 23:53	M5
Ethyl methacrylate	ug/kg	ND	100	10/04/18 23:53	M5
Ethylbenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/04/18 23:53	M5
Iodomethane	ug/kg	ND	100	10/04/18 23:53	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/04/18 23:53	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/04/18 23:53	M5
Methylene Chloride	ug/kg	ND	20.0	10/04/18 23:53	M5
n-Butylbenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
n-Hexane	ug/kg	ND	5.0	10/04/18 23:53	M5
n-Propylbenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
Naphthalene	ug/kg	ND	5.0	10/04/18 23:53	M5
p-Isopropyltoluene	ug/kg	ND	5.0	10/04/18 23:53	M5
sec-Butylbenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
Styrene	ug/kg	ND	5.0	10/04/18 23:53	M5
tert-Butylbenzene	ug/kg	ND	5.0	10/04/18 23:53	M5
Tetrachloroethene	ug/kg	ND	5.0	10/04/18 23:53	M5
Toluene	ug/kg	ND	5.0	10/04/18 23:53	M5
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/04/18 23:53	M5
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/04/18 23:53	M5
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/04/18 23:53	M5
Trichloroethene	ug/kg	ND	5.0	10/04/18 23:53	M5
Trichlorofluoromethane	ug/kg	ND	5.0	10/04/18 23:53	M5
Vinyl acetate	ug/kg	ND	100	10/04/18 23:53	M5
Vinyl chloride	ug/kg	ND	5.0	10/04/18 23:53	M5
Xylene (Total)	ug/kg	ND	10.0	10/04/18 23:53	M5
4-Bromofluorobenzene (S)	%.	97	57-130	10/04/18 23:53	M5
Dibromofluoromethane (S)	%.	103	80-127	10/04/18 23:53	M5
Toluene-d8 (S)	%.	99	72-136	10/04/18 23:53	M5

LABORATORY CONTROL SAMPLE: 2146308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	46.2	92	71-123	M5
1,1,2,2-Tetrachloroethane	ug/kg	50	54.6	109	74-121	M5
1,1-Dichloroethene	ug/kg	50	48.3	97	71-125	M5
1,2,4-Trimethylbenzene	ug/kg	50	49.7	99	73-111	M5
1,2-Dichloropropane	ug/kg	50	53.0	106	76-120	M5
Benzene	ug/kg	50	48.3	97	77-117	M5
Chlorobenzene	ug/kg	50	47.8	96	77-111	M5
Chloroform	ug/kg	50	46.6	93	74-114	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

LABORATORY CONTROL SAMPLE: 2146308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/kg	50	49.1	98	74-118	M5
Ethylbenzene	ug/kg	50	49.1	98	73-114	M5
Isopropylbenzene (Cumene)	ug/kg	50	49.8	100	78-113	M5
Methyl-tert-butyl ether	ug/kg	50	54.9	110	75-119	M5
Naphthalene	ug/kg	50	51.4	103	70-115	M5
Tetrachloroethene	ug/kg	50	47.1	94	72-117	M5
Toluene	ug/kg	50	46.8	94	77-111	M5
trans-1,2-Dichloroethene	ug/kg	50	47.5	95	73-121	M5
Trichloroethene	ug/kg	50	49.0	98	73-119	M5
Vinyl chloride	ug/kg	50	43.3	87	57-160	M5
Xylene (Total)	ug/kg	150	151	101	74-111	M5
4-Bromofluorobenzene (S)	%.			99	57-130	M5
Dibromofluoromethane (S)	%.			94	80-127	M5
Toluene-d8 (S)	%.			104	72-136	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 464486 Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50206817011, 50206817012, 50206817013

METHOD BLANK: 2144017 Matrix: Water
Associated Lab Samples: 50206817011, 50206817012, 50206817013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	10/08/18 02:28	N2
2-Methylnaphthalene	ug/L	ND	1.0	10/08/18 02:28	
Acenaphthene	ug/L	ND	1.0	10/08/18 02:28	
Acenaphthylene	ug/L	ND	1.0	10/08/18 02:28	
Anthracene	ug/L	ND	0.10	10/08/18 02:28	
Benzo(a)anthracene	ug/L	ND	0.10	10/08/18 02:28	
Benzo(a)pyrene	ug/L	ND	0.10	10/08/18 02:28	
Benzo(b)fluoranthene	ug/L	ND	0.10	10/08/18 02:28	
Benzo(g,h,i)perylene	ug/L	ND	0.10	10/08/18 02:28	
Benzo(k)fluoranthene	ug/L	ND	0.10	10/08/18 02:28	
Chrysene	ug/L	ND	0.50	10/08/18 02:28	
Dibenz(a,h)anthracene	ug/L	ND	0.10	10/08/18 02:28	
Fluoranthene	ug/L	ND	1.0	10/08/18 02:28	
Fluorene	ug/L	ND	1.0	10/08/18 02:28	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	10/08/18 02:28	
Naphthalene	ug/L	ND	1.0	10/08/18 02:28	
Phenanthrene	ug/L	ND	1.0	10/08/18 02:28	
Pyrene	ug/L	ND	1.0	10/08/18 02:28	
2-Fluorobiphenyl (S)	%.	79	10-108	10/08/18 02:28	
p-Terphenyl-d14 (S)	%.	123	10-167	10/08/18 02:28	

LABORATORY CONTROL SAMPLE: 2144018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	5.4	54	23-93	N2
2-Methylnaphthalene	ug/L	10	5.0	50	23-102	
Acenaphthene	ug/L	10	6.1	61	33-106	
Acenaphthylene	ug/L	10	7.8	78	35-119	
Anthracene	ug/L	10	6.2	62	28-124	
Benzo(a)anthracene	ug/L	10	8.8	88	58-140	
Benzo(a)pyrene	ug/L	10	9.4	94	53-118	
Benzo(b)fluoranthene	ug/L	10	9.9	99	55-133	
Benzo(g,h,i)perylene	ug/L	10	9.7	97	46-105	
Benzo(k)fluoranthene	ug/L	10	9.3	93	49-115	
Chrysene	ug/L	10	8.1	81	50-125	
Dibenz(a,h)anthracene	ug/L	10	10	100	48-112	
Fluoranthene	ug/L	10	8.7	87	53-128	
Fluorene	ug/L	10	6.7	67	39-123	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.7	97	49-109	
Naphthalene	ug/L	10	5.6	56	26-95	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

LABORATORY CONTROL SAMPLE: 2144018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	7.4	74	48-124	
Pyrene	ug/L	10	7.9	79	54-131	
2-Fluorobiphenyl (S)	%.			57	10-108	
p-Terphenyl-d14 (S)	%.			81	10-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144019 2144020

Parameter	Units	50206632001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	10	10	3.3	3.8	33	38	10-99	15	20	N2
2-Methylnaphthalene	ug/L	ND	10	10	3.1	3.6	31	36	10-104	15	20	
Acenaphthene	ug/L	ND	10	10	3.7	4.4	37	44	10-131	17	20	
Acenaphthylene	ug/L	ND	10	10	4.8	6.0	48	60	10-123	22	20	R1
Anthracene	ug/L	ND	10	10	3.9	5.2	39	52	10-147	28	20	R1
Benzo(a)anthracene	ug/L	ND	10	10	5.5	7.8	55	78	12-140	34	20	R1
Benzo(a)pyrene	ug/L	ND	10	10	4.9	7.2	49	72	10-111	38	20	R1
Benzo(b)fluoranthene	ug/L	ND	10	10	5.1	7.6	51	76	10-118	39	20	R1
Benzo(g,h,i)perylene	ug/L	ND	10	10	4.9	6.8	49	68	10-91	32	20	R1
Benzo(k)fluoranthene	ug/L	ND	10	10	4.9	7.0	49	70	10-110	36	20	R1
Chrysene	ug/L	ND	10	10	5.0	7.1	50	71	14-119	36	20	R1
Dibenz(a,h)anthracene	ug/L	ND	10	10	5.1	7.1	51	71	10-96	34	20	R1
Fluoranthene	ug/L	ND	10	10	5.4	7.6	54	76	15-136	34	20	R1
Fluorene	ug/L	ND	10	10	4.2	5.4	42	54	11-123	25	20	R1
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	4.9	6.8	49	68	10-95	32	20	R1
Naphthalene	ug/L	ND	10	10	3.6	4.3	36	43	10-97	17	20	
Phenanthrene	ug/L	ND	10	10	4.8	6.3	48	63	11-128	28	20	R1
Pyrene	ug/L	ND	10	10	5.2	6.9	52	69	17-137	28	20	R1
2-Fluorobiphenyl (S)	%.						62	45	10-108			
p-Terphenyl-d14 (S)	%.						81	58	10-167			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 465302 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206817002, 50206817003, 50206817004, 50206817005, 50206817006, 50206817007, 50206817008, 50206817009, 50206817010

METHOD BLANK: 2147925 Matrix: Solid
Associated Lab Samples: 50206817002, 50206817003, 50206817004, 50206817005, 50206817006, 50206817007, 50206817008, 50206817009, 50206817010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/08/18 18:10	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/08/18 18:10	
Acenaphthene	ug/kg	ND	5.0	10/08/18 18:10	
Acenaphthylene	ug/kg	ND	5.0	10/08/18 18:10	
Anthracene	ug/kg	ND	5.0	10/08/18 18:10	
Benzo(a)anthracene	ug/kg	ND	5.0	10/08/18 18:10	
Benzo(a)pyrene	ug/kg	ND	5.0	10/08/18 18:10	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/08/18 18:10	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/08/18 18:10	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/08/18 18:10	
Chrysene	ug/kg	ND	5.0	10/08/18 18:10	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/08/18 18:10	
Fluoranthene	ug/kg	ND	5.0	10/08/18 18:10	
Fluorene	ug/kg	ND	5.0	10/08/18 18:10	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/08/18 18:10	
Naphthalene	ug/kg	ND	5.0	10/08/18 18:10	
Phenanthrene	ug/kg	ND	5.0	10/08/18 18:10	
Pyrene	ug/kg	ND	5.0	10/08/18 18:10	
2-Fluorobiphenyl (S)	%.	88	40-107	10/08/18 18:10	
p-Terphenyl-d14 (S)	%.	100	35-115	10/08/18 18:10	

LABORATORY CONTROL SAMPLE: 2147926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	330	242	73	49-102	N2
2-Methylnaphthalene	ug/kg	330	250	76	50-104	
Acenaphthene	ug/kg	330	254	77	59-119	
Acenaphthylene	ug/kg	330	252	76	61-122	
Anthracene	ug/kg	330	251	76	57-111	
Benzo(a)anthracene	ug/kg	330	277	84	57-121	
Benzo(a)pyrene	ug/kg	330	293	89	55-130	
Benzo(b)fluoranthene	ug/kg	330	291	88	53-125	
Benzo(g,h,i)perylene	ug/kg	330	284	86	56-124	
Benzo(k)fluoranthene	ug/kg	330	284	86	55-137	
Chrysene	ug/kg	330	269	81	60-134	
Dibenz(a,h)anthracene	ug/kg	330	289	88	60-122	
Fluoranthene	ug/kg	330	265	80	60-117	
Fluorene	ug/kg	330	264	80	55-114	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

LABORATORY CONTROL SAMPLE: 2147926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	330	280	85	57-124	
Naphthalene	ug/kg	330	243	74	54-107	
Phenanthrene	ug/kg	330	262	79	60-115	
Pyrene	ug/kg	330	263	80	61-135	
2-Fluorobiphenyl (S)	%.			80	40-107	
p-Terphenyl-d14 (S)	%.			87	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147927 2147928

Parameter	Units	50206774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	398	400	294	309	73	76	20-119	5	20	N2
2-Methylnaphthalene	ug/kg	ND	398	400	295	307	73	76	25-114	4	20	
Acenaphthene	ug/kg	ND	398	400	305	304	77	76	34-124	0	20	
Acenaphthylene	ug/kg	ND	398	400	310	298	78	75	37-128	4	20	
Anthracene	ug/kg	ND	398	400	318	300	80	75	25-118	6	20	
Benzo(a)anthracene	ug/kg	ND	398	400	292	268	73	67	16-129	9	20	
Benzo(a)pyrene	ug/kg	ND	398	400	298	286	75	71	19-131	4	20	
Benzo(b)fluoranthene	ug/kg	ND	398	400	280	257	70	64	15-127	9	20	
Benzo(g,h,i)perylene	ug/kg	ND	398	400	281	259	71	65	15-128	8	20	
Benzo(k)fluoranthene	ug/kg	ND	398	400	317	301	80	75	14-142	5	20	
Chrysene	ug/kg	ND	398	400	307	287	77	72	19-141	7	20	
Dibenz(a,h)anthracene	ug/kg	ND	398	400	314	293	79	73	18-133	7	20	
Fluoranthene	ug/kg	ND	398	400	309	292	78	73	25-125	6	20	
Fluorene	ug/kg	ND	398	400	328	318	82	79	32-118	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	398	400	279	256	70	64	11-134	8	20	
Naphthalene	ug/kg	ND	398	400	278	287	69	71	13-137	3	20	
Phenanthrene	ug/kg	ND	398	400	312	299	78	74	21-130	4	20	
Pyrene	ug/kg	ND	398	400	295	273	74	68	20-143	8	20	
2-Fluorobiphenyl (S)	%.						82	83	40-107			
p-Terphenyl-d14 (S)	%.						80	73	35-115			

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 464203 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206666001, 50206666002, 50206666003, 50206666004, 50206666005, 50206666007, 50206666008, 50206666010, 50206666011

SAMPLE DUPLICATE: 2142849

Parameter	Units	50206683001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.5	11.0	4	5	

SAMPLE DUPLICATE: 2142850

Parameter	Units	50206683006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.5	15.5	0	5	

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206666

QC Batch: 464558 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206817002, 50206817003, 50206817004, 50206817005, 50206817006, 50206817007, 50206817008, 50206817009, 50206817010

SAMPLE DUPLICATE: 2144271

Parameter	Units	50206817001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.9	21.0	1	5	

SAMPLE DUPLICATE: 2144272

Parameter	Units	50206817010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	28.9	29.4	2	5	

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Indiana University Health
Pace Project No.: 50206666

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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-I	Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 464997

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 465774

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D4	Sample was diluted due to the presence of high levels of target analytes.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
F1	The sample was analyzed at a dilution due to foaming of the sample in the purge vessel.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Indiana University Health
Pace Project No.: 50206666

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Indiana University Health
Pace Project No.: 50206666

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50206817005	**SB-21-2-4**	EPA 3050	464724	EPA 6010	465222
50206817005	**SB-21-2-4**	EPA 7471	464720	EPA 7471	465056
50206817011	**SB-22-GW-4-14**	EPA 3510	464486	EPA 8270 by SIM LVE	464705
50206817012	**SB-18-GW-1-11**	EPA 3510	464486	EPA 8270 by SIM LVE	464705
50206817013	**SB-20-GW-0-10**	EPA 3510	464486	EPA 8270 by SIM LVE	464705
50206817002	**SB-22-10-12**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817003	**SB-23-2-4**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817004	**SB-19-2-4**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817005	**SB-21-2-4**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817006	**SB-20-2-4**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817007	**SB-24-22-24**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817008	**SB-24-4-6**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817009	**SB-18-6-8**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817010	**SB-23-8-10**	EPA 3546	465302	EPA 8270 by SIM	465436
50206817011	**SB-22-GW-4-14**	EPA 8260	465774		
50206817012	**SB-18-GW-1-11**	EPA 8260	465774		
50206817013	**SB-20-GW-0-10**	EPA 8260	465774		
50206666001	**SB-23-2-4**	EPA 8260	464877		
50206666002	**SB-23-8-10**	EPA 8260	464877		
50206666003	**SB-24-4-6**	EPA 8260	464877		
50206666004	**SB-24-22-24**	EPA 8260	464877		
50206666005	**SB-19-2-4**	EPA 8260	464877		
50206666007	**SB-20-2-4**	EPA 8260	464997		
50206666008	**SB-21-2-4**	EPA 8260	464877		
50206666010	**SB-22-10-12**	EPA 8260	464877		
50206666011	**SB-18-6-8**	EPA 8260	464877		
50206666001	**SB-23-2-4**	SM 2540G	464203		
50206666002	**SB-23-8-10**	SM 2540G	464203		
50206666003	**SB-24-4-6**	SM 2540G	464203		
50206666004	**SB-24-22-24**	SM 2540G	464203		
50206666005	**SB-19-2-4**	SM 2540G	464203		
50206666007	**SB-20-2-4**	SM 2540G	464203		
50206666008	**SB-21-2-4**	SM 2540G	464203		
50206666010	**SB-22-10-12**	SM 2540G	464203		
50206666011	**SB-18-6-8**	SM 2540G	464203		
50206817002	**SB-22-10-12**	SM 2540G	464558		
50206817003	**SB-23-2-4**	SM 2540G	464558		
50206817004	**SB-19-2-4**	SM 2540G	464558		
50206817005	**SB-21-2-4**	SM 2540G	464558		
50206817006	**SB-20-2-4**	SM 2540G	464558		
50206817007	**SB-24-22-24**	SM 2540G	464558		
50206817008	**SB-24-4-6**	SM 2540G	464558		
50206817009	**SB-18-6-8**	SM 2540G	464558		
50206817010	**SB-23-8-10**	SM 2540G	464558		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: August Mack Environmental, Inc.	Report To: Kara Seymour KSeymour@augustmack.com	Attention:
Address: 1302 N. Meridian St., Suite 300, Indianapolis, IN 46202	Copy To: Tyler Eschiedrich TEschiedrich@augustmack.com	Company Name:
Email To: Kara Seymour KSeymour@augustmack.com	Purchase Order No.:	Address: Pace Quote Reference:
Phone: (317)916-8000 Fax: (317)916-8001	Project Name: Indiana University Health Bloomington Hospital Campus	Pace Project Manager: Kelly Jones
Requested Due Date/TAT:	Project Number: JS1901.740	Pace Profile #:

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

Site Location STATE: IN

Requested Analysis Filtered (Y/N)

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs	PAHs	RCRA8 Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																							B026666
1	SB-23-2-4	SL	G			9.26.18	1235		5	2						1	2	X	X				001
2	SB-23-8-10	SL	G			9.26.18	1240		5	2						1	2	X	X				002
3	SB-24-4-6	SL	G			9.26.18	1130		5	2						1	2	X	X				003
4	SB-24-22-24	SL	G			9.26.18	1140		5	2						1	2	X	X				004
5	SB-19-2-4	SL	G			9.26.18	1430		5	2						1	2	X	X				005
6	SB-19-8-9	SL	G			9.26.18	1510		5	2						1	2	X	X				006
7	SB-20-2-4	SL	G			9.26.18	1535		5	2						1	2	X	X				007
8	SB-20-GW-0-10	WT	G			9.26.18	1830		5	2			3					X	X				
9	SB-21-2-4	SL	G			9.26.18	1615		6	3						1	2	X	X	X			008
10	SB-21-8-9	SL	G			9.26.18	1625		5	2						1	2	X	X	X			009
11	SB-22-10-12	SL	G			9.26.18	1840		5	2						1	2	X	X				010
12	SB-22-GW-4-14	WT	G			9.26.18	1725		5	2			3					X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PAH & RCRA8 Metals in 1 4oz glass jar for SB-21-8-9		9-27-18	0950		9/28	915				
		9/28/18	1255	Jason Hunt	9-28	1255	1.8	X	N	Y
On Hold (for now, pending tomorrows Sampling - 9.27.18) SB-21-8-9, SB-19-8-9, SB-23-8-10, and SB-24-22-24										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kara Seymour

SIGNATURE of SAMPLER: Kara Seymour DATE Signed (MM/DD/YY): 09/26/18

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

[13]

F-ALL-Q-020rev.08, 12-Oct-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: August Mack Environmental, Inc.	Report To: Kara Seymour KSeymour@augustmack.com	Attention:
Address: 1302 N. Meridian St., Suite 300, Indianapolis, IN 46202	Copy To: Tyler Eschiedrich TEschiedrich@augustmack.com	Company Name:
Email To: Kara Seymour KSeymour@augustmack.com	Purchase Order No.:	Address:
Phone: (317)916-8000 Fax: (317)916-8001	Project Name: Indiana University Health Bloomington Hospital Campus	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: JS1901.740	Pace Project Manager: Kelly Jones
		Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: IN

Requested Analysis Filtered (Y/N)

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC	PAH	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 50266666
1	SB-18-6-8	SL	G			9.26.18	1820		5	2						1	2		X	X		01
2	SB-18-GW-1-11	WT	G			9.26.18	1810		5	2			3						X	X		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Lab Page #1 of 2	[signature]	9-28-18	0950	[signature] Pace	9/28	950	
	[signature] Pace	9/28	1255				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kara Seymour

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 09/26/18

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

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

113

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical

SAMPLE CONDITION UPON RECEIPT FORM

Project #: 36266666 **Date/Time and Initials of person examining contents:** JH 9-28 1417

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals Intact:** ☐ Yes ☒ No

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 18/14 13/13 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

All discrepancies will be written out in the comments section below.

	Yes	No
Are samples from West Virginia? Document any containers out of temp.		X
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X
Chain of Custody Present:	X	
Chain of Custody Filled Out:	X	
Short Hold Time Analysis (<72hr)?: TC **Analysis:**	X	
Time 5035A TC placed in Freezer or Short Holds To Lab: 1430		
Rush TAT Requested:		X
Containers Intact?:	X	
Sample Labels Match COC?: Except TCs, which only require sample ID	X	

	Yes	No	N/A
All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted. Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			X
Dissolved Metals field filtered?:			X
Headspace Wisconsin Sulfide			X
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Headspace in VOA Vials (>6mm):		X	X JH 9-28
Trip Blank Present?:		X	
Trip Blank Custody Seals?:		X	

Comments: Samples were prefrozen JH 9-28 DID not recieve soil jars or waters for Project JH 9-28

Sample Container Count

CLIENT: August Mack

COC PAGE 1 of 2

COC ID#

Project # 50266666

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R (SBS Bulk / Kit)				Matrix SI/WT/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1																	4							
2																	4							
3																	4							
4																	4							
5																	4							
6																	4							
7																	4							
8																								
9																	4							
10																	4							
11																	4							
12																								

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Sample Container Count

WO# : 50206666

CLIENT: August Mack

COC PAGE 2 of 2

COC ID# _____ Project # 50206666

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	SBS Bulk DI Kit R	Matrix S (Soil/Wa Aqueou	pH <2	pH >9	pH>12
1																	4				
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: of 2

2230419

Section A Required Client Information:

Company: Aways Mack Environmental
Address: 1302 N. Meridian St. #300
Email To: kseymour@awsmackenv.com
Phone: 317.916.9000 Fax: 317.916.8001
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kara Seymour
Copy To: Tyler Z (Copy)
Purchase Order No.:
Project Name: IU Health Bloomington Hospital Campus
Project Number: JS1901.7

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IN

Section D Required Client Information

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PAH	Lead	VOC	RCRA 8 Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-2-4-6	SL	G			9.24.18	1715		1	1									X	X				001
2	SB-22-GW-4-14	WT	G			9.26.18	1725		5	2			3						X		X			011
3	SB-18-GW-1-11	WT	G			9.26.18	1810		5	2			3						X		X			012
4	SB-20-GW-0-10	WT	G			9.26.18	1930		5	2			3						X		X			013
5	SB-22-10-12	SL	G			9.26.18	1840		1	1									X					002
6	SB-23-2-4	SL	G			9.26.18	1235		1	1									X					003
7	SB-19-2-4	SL	G			9.26.18	1430		1	1									X					004
8	SB-21-2-4	SL	G			9.26.18	1615		2	2									X			X		005
9	SB-20-2-4	SL	G			9.26.18	1535		1	1									X					006
10	~~SB-19-GW-4-14~~	~~SL~~	~~G~~			~~9.26.18~~	~~1510~~		~~1~~	~~1~~									~~X~~					
11	SB-24-22-24	SL	G			9.26.18	1140		1	1									X					007
12	SB-24-4-6	SL	G			9.26.18	1130		1	1									X					008

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SB2-4-6 has 1 4oz glass jar for non PAH+Lead Analysis.		10/2/18	941		10/2	941				
		10/2/18	1210		10/2/18	1210	1.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kara Seymour
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 10/01/18

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

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

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

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

2230420

Section A Required Client Information:

Company:	
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IN

Section D Required Client Information

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-10-6-8	SL	G			9-26-18	1320		1	1								X		009
2	SB-23-8-10	SL	G			9-26-18	1240		1	1								X		010
3	~~SB-21-8-9~~	~~SL~~	~~G~~			~~9-26-18~~	~~1405~~		~~1~~	~~1~~								~~X~~		
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

5026817

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		10.2.18	941		10/2	949				
		10/2/18	1210		10/2/18	1210	1.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kara Seyman

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10/2/18

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

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

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

SAMPLE CONDITION UPON RECEIPT FORM

Pace Analytical

Project #: 50256807

Date/Time and Initials of person examining contents: 10/2118 1303 NW

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C (D) E F Ice Type: ☑ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☑ N/A

Cooler Temperature: 1.2/1.0 °C Ice Visible in Sample Containers?: ☐ Yes ☑ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☑ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		✓	All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			✓
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓				
Chain of Custody Present:	✓		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			
Chain of Custody Filled Out:	✓		Dissolved Metals field filtered?:			✓
Short Hold Time Analysis (<72hr)?: **Analysis:** WATER PAH out of Hold 10/3	✓		Headspace Wisconsin Sulfide			✓
Time 5035A TC placed in Freezer or Short Holds To Lab:				Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Rush TAT Requested:		✓	Headspace in VOA Vials (>6mm):		✓	
Containers Intact?:	✓		Trip Blank Present?:		✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Custody Seals?:		✓	

Comments:

Sample Container Count

CLIENT: August Mack

COC PAGE 1 of 2
COC ID# 2230419

Project # 5026487

Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	SBS Bulk Kit R				Matrix Sl/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1								1														SL			
2	3		2																			~~SL~~ WT ~~WT~~ MW 10/2/18			
3	1		1																			WT			
4	1		1																			WT			
5								1														SL			
6								1																	
7								1																	
8								2																	
9								1																	
10																									
11								1																	
12								1																	

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Sample Container Count

WO# : 50206817

CLIENT: August Mack

COC PAGE 2 of 2

COC ID# 2230420

Project # 50256817

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bul Kit R			Mat (So Aq	pH <2	pH >9	pH>12
1							1													S			
2							1													L			
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Collform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 15, 2018

Tyler Zschiedrich
August Mack Environmental Consultants
1302 N Meridian Street
Suite 300
Indianapolis, IN 46202

RE: Project: Indiana University Health
Pace Project No.: 50206664

Dear Tyler Zschiedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 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.

Revised Reprt: Revision replaces original dated, 10/9/18. Revised to remove duplicate SB-21 voc results./101518kj

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

Sincerely,

Kelly Jones
kelly.jones@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Andy Tennyson, August Mack Environmental Consultants

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Indiana University Health
Pace Project No.: 50206664

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355-18-12
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Indiana University Health
Pace Project No.: 50206664

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50206664001	**SB-19-GW-0-9**	Water	09/27/18 09:35	09/28/18 12:55
50206664002	**SB-21-GW-0-9**	Water	09/27/18 09:40	09/28/18 12:55
50206664004	**SB-9-GW-2-12**	Water	09/27/18 10:50	09/28/18 12:55
50206664005	**SB-13-GW-5-15**	Water	09/27/18 12:15	09/28/18 12:55
50206664006	**SB-14-GW-6-16**	Water	09/27/18 13:30	09/28/18 12:55
50206664007	**SB-8-GW-6-11**	Water	09/27/18 18:15	09/28/18 12:55
50206664008	**SB-6-GW-4-14**	Water	09/27/18 16:40	09/28/18 12:55
50206664009	**SB-9-4-6**	Solid	09/27/18 11:00	09/28/18 12:55
50206664010	**SB-13-2-4**	Solid	09/27/18 12:45	09/28/18 12:55
50206664011	**SB-14-4-6**	Solid	09/27/18 13:50	09/28/18 12:55
50206664012	**SB-8-2-4**	Solid	09/27/18 14:50	09/28/18 12:55
50206664013	**SB-7-8-10**	Solid	09/27/18 16:00	09/28/18 12:55
50206664014	**SB-7-12-14**	Solid	09/27/18 16:05	09/28/18 12:55
50206664015	**SB-6-4-6**	Solid	09/27/18 16:50	09/28/18 12:55
50206664016	**SB-5-2-4**	Solid	09/27/18 18:00	09/28/18 12:55
50206664017	**SB-5-8-10**	Solid	09/27/18 18:10	09/28/18 12:55

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Indiana University Health
Pace Project No.: 50206664

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50206664001	**SB-19-GW-0-9**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206664002	**SB-21-GW-0-9**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206664004	**SB-9-GW-2-12**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206664005	**SB-13-GW-5-15**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206664006	**SB-14-GW-6-16**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206664007	**SB-8-GW-6-11**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206664008	**SB-6-GW-4-14**	EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206664009	**SB-9-4-6**	EPA 6010	MJC	7	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206664010	**SB-13-2-4**	EPA 6010	MJC	7	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206664011	**SB-14-4-6**	EPA 6010	MJC	7	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206664012	**SB-8-2-4**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206664013	**SB-7-8-10**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206664014	**SB-7-12-14**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Indiana University Health
Pace Project No.: 50206664

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540G	CDR	1	PASI-I
50206664015	**SB-6-4-6**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206664016	**SB-5-2-4**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206664017	**SB-5-8-10**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	73	PASI-I
		SM 2540G	CDR	1	PASI-I

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Indiana University Health
Pace Project No.: 50206664

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206664001	**SB-19-GW-0-9**					
EPA 8270 by SIM LVE	1-Methylnaphthalene	4.6	ug/L	1.0	10/03/18 17:11	N2
50206664005	**SB-13-GW-5-15**					
EPA 8270 by SIM LVE	Benzo(a)anthracene	0.37	ug/L	0.10	10/03/18 17:39	
EPA 8270 by SIM LVE	Chrysene	0.50	ug/L	0.50	10/03/18 17:39	
EPA 8270 by SIM LVE	Phenanthrene	1.2	ug/L	1.0	10/03/18 17:39	
50206664006	**SB-14-GW-6-16**					
EPA 8270 by SIM LVE	Acenaphthene	1.0	ug/L	1.0	10/03/18 17:49	
EPA 8270 by SIM LVE	Fluorene	1.1	ug/L	1.0	10/03/18 17:49	
EPA 8270 by SIM LVE	Naphthalene	1.2	ug/L	1.0	10/03/18 17:49	
50206664009	**SB-9-4-6**					
EPA 6010	Arsenic	1.8	mg/kg	1.0	10/04/18 12:15	
EPA 6010	Barium	98.0	mg/kg	1.0	10/04/18 12:15	
EPA 6010	Cadmium	0.60	mg/kg	0.52	10/04/18 12:15	
EPA 6010	Chromium	8.4	mg/kg	1.0	10/04/18 12:15	
EPA 6010	Lead	35.4	mg/kg	1.0	10/04/18 12:15	
EPA 8270 by SIM	Benzo(a)pyrene	5.6	ug/kg	5.3	10/05/18 22:01	
EPA 8270 by SIM	Benzo(b)fluoranthene	6.4	ug/kg	5.3	10/05/18 22:01	
EPA 8270 by SIM	Fluoranthene	7.0	ug/kg	5.3	10/05/18 22:01	
EPA 8270 by SIM	Pyrene	6.8	ug/kg	5.3	10/05/18 22:01	
SM 2540G	Percent Moisture	5.9	%	0.10	10/01/18 15:04	
50206664010	**SB-13-2-4**					
EPA 6010	Arsenic	4.2	mg/kg	1.1	10/04/18 12:17	
EPA 6010	Barium	11.1	mg/kg	1.1	10/04/18 12:17	
EPA 6010	Chromium	6.4	mg/kg	1.1	10/04/18 12:17	
EPA 6010	Lead	10.4	mg/kg	1.1	10/04/18 12:17	
EPA 8270 by SIM	Acenaphthylene	37.7	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Anthracene	61.1	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Benzo(a)anthracene	179	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Benzo(a)pyrene	163	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Benzo(b)fluoranthene	183	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Benzo(g,h,i)perylene	108	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Benzo(k)fluoranthene	183	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Chrysene	192	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Dibenz(a,h)anthracene	49.3	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Fluoranthene	354	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	105	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Phenanthrene	198	ug/kg	27.1	10/09/18 13:13	
EPA 8270 by SIM	Pyrene	272	ug/kg	27.1	10/09/18 13:13	
SM 2540G	Percent Moisture	8.8	%	0.10	10/01/18 15:04	
50206664011	**SB-14-4-6**					
EPA 6010	Arsenic	8.0	mg/kg	1.2	10/04/18 12:19	
EPA 6010	Barium	106	mg/kg	1.2	10/04/18 12:19	
EPA 6010	Chromium	24.4	mg/kg	1.2	10/04/18 12:19	
EPA 6010	Lead	35.6	mg/kg	1.2	10/04/18 12:19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Indiana University Health
Pace Project No.: 50206664

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206664011	**SB-14-4-6**					
EPA 8270 by SIM	Acenaphthylene	51.6	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Anthracene	45.6	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Benzo(a)anthracene	101	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Benzo(a)pyrene	146	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Benzo(b)fluoranthene	130	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Benzo(g,h,i)perylene	141	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Benzo(k)fluoranthene	135	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Chrysene	125	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Fluoranthene	218	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	104	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	2-Methylnaphthalene	33.2	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Naphthalene	56.1	ug/kg	31.1	10/09/18 13:31	ED
EPA 8270 by SIM	Phenanthrene	161	ug/kg	31.1	10/09/18 13:31	
EPA 8270 by SIM	Pyrene	202	ug/kg	31.1	10/09/18 13:31	
SM 2540G	Percent Moisture	19.7	%	0.10	10/01/18 15:04	
50206664012	**SB-8-2-4**					
EPA 8270 by SIM	Benzo(a)anthracene	122	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Benzo(a)pyrene	104	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Benzo(b)fluoranthene	148	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Benzo(g,h,i)perylene	65.9	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Benzo(k)fluoranthene	113	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Chrysene	148	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Dibenz(a,h)anthracene	30.9	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Fluoranthene	223	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	72.4	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	1-Methylnaphthalene	60.9	ug/kg	28.7	10/08/18 19:32	N2
EPA 8270 by SIM	2-Methylnaphthalene	73.7	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Naphthalene	68.4	ug/kg	28.7	10/08/18 19:32	B,ED,P2
EPA 8270 by SIM	Phenanthrene	199	ug/kg	28.7	10/08/18 19:32	
EPA 8270 by SIM	Pyrene	180	ug/kg	28.7	10/08/18 19:32	
SM 2540G	Percent Moisture	12.8	%	0.10	10/01/18 15:04	
50206664013	**SB-7-8-10**					
EPA 8270 by SIM	Anthracene	14.4	ug/kg	6.3	10/08/18 19:49	
EPA 8270 by SIM	Fluoranthene	10.3	ug/kg	6.3	10/08/18 19:49	
EPA 8270 by SIM	1-Methylnaphthalene	7.9	ug/kg	6.3	10/08/18 19:49	N2
EPA 8270 by SIM	2-Methylnaphthalene	6.5	ug/kg	6.3	10/08/18 19:49	
EPA 8270 by SIM	Naphthalene	17.2	ug/kg	6.3	10/08/18 19:49	B,P2
EPA 8270 by SIM	Pyrene	19.0	ug/kg	6.3	10/08/18 19:49	
SM 2540G	Percent Moisture	21.7	%	0.10	10/01/18 15:04	
50206664014	**SB-7-12-14**					
EPA 8270 by SIM	Acenaphthene	27.6	ug/kg	7.1	10/05/18 16:11	
EPA 8270 by SIM	Acenaphthylene	15.2	ug/kg	7.1	10/05/18 16:11	
EPA 8270 by SIM	Anthracene	21.8	ug/kg	7.1	10/05/18 16:11	
EPA 8270 by SIM	Fluoranthene	7.4	ug/kg	7.1	10/05/18 16:11	
EPA 8270 by SIM	Fluorene	58.4	ug/kg	7.1	10/05/18 16:11	
EPA 8270 by SIM	1-Methylnaphthalene	107	ug/kg	7.1	10/05/18 16:11	N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Indiana University Health
Pace Project No.: 50206664

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206664014	**SB-7-12-14**					
EPA 8270 by SIM	Phenanthrene	64.3	ug/kg	7.1	10/05/18 16:11	
EPA 8270 by SIM	Pyrene	12.4	ug/kg	7.1	10/05/18 16:11	
EPA 8260	sec-Butylbenzene	422	ug/kg	301	10/08/18 15:54	M5
SM 2540G	Percent Moisture	30.6	%	0.10	10/01/18 15:04	
50206664015	**SB-6-4-6**					
EPA 8270 by SIM	Acenaphthylene	33.4	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Anthracene	26.5	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Benzo(a)anthracene	95.3	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Benzo(a)pyrene	83.0	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Benzo(b)fluoranthene	90.4	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Benzo(g,h,i)perylene	73.7	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Benzo(k)fluoranthene	75.9	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Chrysene	126	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Fluoranthene	157	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	48.8	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	1-Methylnaphthalene	157	ug/kg	26.2	10/04/18 10:43	N2
EPA 8270 by SIM	2-Methylnaphthalene	190	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Naphthalene	84.6	ug/kg	26.2	10/04/18 10:43	ED
EPA 8270 by SIM	Phenanthrene	268	ug/kg	26.2	10/04/18 10:43	
EPA 8270 by SIM	Pyrene	159	ug/kg	26.2	10/04/18 10:43	
EPA 8260	Acetone	139	ug/kg	119	10/08/18 16:32	M5
SM 2540G	Percent Moisture	4.9	%	0.10	10/01/18 15:05	
50206664016	**SB-5-2-4**					
EPA 8270 by SIM	Acenaphthylene	166	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Anthracene	156	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Benzo(a)anthracene	608	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Benzo(a)pyrene	593	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Benzo(b)fluoranthene	637	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Benzo(g,h,i)perylene	481	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Benzo(k)fluoranthene	514	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Chrysene	673	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Dibenz(a,h)anthracene	171	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Fluoranthene	1190	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	429	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	1-Methylnaphthalene	276	ug/kg	29.0	10/04/18 10:59	N2
EPA 8270 by SIM	2-Methylnaphthalene	351	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Naphthalene	638	ug/kg	29.0	10/04/18 10:59	ED
EPA 8270 by SIM	Phenanthrene	872	ug/kg	29.0	10/04/18 10:59	
EPA 8270 by SIM	Pyrene	1060	ug/kg	29.0	10/04/18 10:59	
SM 2540G	Percent Moisture	14.7	%	0.10	10/01/18 15:51	
50206664017	**SB-5-8-10**					
SM 2540G	Percent Moisture	20.0	%	0.10	10/01/18 15:51	

Pace Analytical Services, LLC
7726 Moller Road
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ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-19-GW-0-9 **Lab ID: 50206664001** Collected: 09/27/18 09:35 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:11	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:11	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:11	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/03/18 17:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:11	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:11	193-39-5	
1-Methylnaphthalene	**4.6**	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:11	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	5	%.	10-108	1	10/02/18 18:00	10/03/18 17:11	321-60-8	S5
p-Terphenyl-d14 (S)	6	%.	10-167	1	10/02/18 18:00	10/03/18 17:11	1718-51-0	S5
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/06/18 03:01	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/06/18 03:01	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/06/18 03:01	107-13-1	
Benzene	ND	ug/L	5.0	1		10/06/18 03:01	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/06/18 03:01	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/06/18 03:01	74-97-5	L2
Bromodichloromethane	ND	ug/L	5.0	1		10/06/18 03:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/06/18 03:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/06/18 03:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/06/18 03:01	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/06/18 03:01	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/06/18 03:01	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/06/18 03:01	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/06/18 03:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/18 03:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/06/18 03:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/06/18 03:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/06/18 03:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/06/18 03:01	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 03:01	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 03:01	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/06/18 03:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/06/18 03:01	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/06/18 03:01	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-19-GW-0-9 **Lab ID: 50206664001** Collected: 09/27/18 09:35 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/06/18 03:01	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/06/18 03:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/18 03:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/18 03:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/18 03:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 03:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 03:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 03:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/06/18 03:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 03:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/06/18 03:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 03:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 03:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/06/18 03:01	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/06/18 03:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/06/18 03:01	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/06/18 03:01	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/06/18 03:01	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/06/18 03:01	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/06/18 03:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/06/18 03:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/06/18 03:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/06/18 03:01	108-10-1	L2
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/06/18 03:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/18 03:01	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/06/18 03:01	103-65-1	
Styrene	ND	ug/L	5.0	1		10/06/18 03:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 03:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 03:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/06/18 03:01	127-18-4	
Toluene	ND	ug/L	5.0	1		10/06/18 03:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/18 03:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/18 03:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/06/18 03:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/18 03:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/06/18 03:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 03:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 03:01	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/06/18 03:01	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/06/18 03:01	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/06/18 03:01	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-19-GW-0-9 **Lab ID: 50206664001** Collected: 09/27/18 09:35 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	108	%.	89-116	1		10/06/18 03:01	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	85-111	1		10/06/18 03:01	460-00-4	
Toluene-d8 (S)	89	%.	87-110	1		10/06/18 03:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-21-GW-0-9 **Lab ID: 50206664002** Collected: 09/27/18 09:40 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:20	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:20	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:20	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:20	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:20	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:20	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/03/18 17:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:20	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:20	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:20	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	16	%.	10-108	1	10/02/18 18:00	10/03/18 17:20	321-60-8	
p-Terphenyl-d14 (S)	16	%.	10-167	1	10/02/18 18:00	10/03/18 17:20	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/06/18 03:40	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/06/18 03:40	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/06/18 03:40	107-13-1	
Benzene	ND	ug/L	5.0	1		10/06/18 03:40	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/06/18 03:40	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/06/18 03:40	74-97-5	L2
Bromodichloromethane	ND	ug/L	5.0	1		10/06/18 03:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/06/18 03:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/06/18 03:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/06/18 03:40	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/06/18 03:40	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/06/18 03:40	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/06/18 03:40	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/06/18 03:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/18 03:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/06/18 03:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/06/18 03:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/06/18 03:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/06/18 03:40	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 03:40	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 03:40	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/06/18 03:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/06/18 03:40	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/06/18 03:40	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-21-GW-0-9 **Lab ID: 50206664002** Collected: 09/27/18 09:40 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/06/18 03:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/06/18 03:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/18 03:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/18 03:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/18 03:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 03:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 03:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 03:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/06/18 03:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 03:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/06/18 03:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 03:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 03:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/06/18 03:40	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/06/18 03:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/06/18 03:40	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/06/18 03:40	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/06/18 03:40	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/06/18 03:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/06/18 03:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/06/18 03:40	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/06/18 03:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/06/18 03:40	108-10-1	L2
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/06/18 03:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/18 03:40	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/06/18 03:40	103-65-1	
Styrene	ND	ug/L	5.0	1		10/06/18 03:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 03:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 03:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/06/18 03:40	127-18-4	
Toluene	ND	ug/L	5.0	1		10/06/18 03:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 03:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/18 03:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/18 03:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/06/18 03:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/18 03:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/06/18 03:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 03:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 03:40	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/06/18 03:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/06/18 03:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/06/18 03:40	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-21-GW-0-9 **Lab ID: 50206664002** Collected: 09/27/18 09:40 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	103	%.	89-116	1		10/06/18 03:40	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	85-111	1		10/06/18 03:40	460-00-4	
Toluene-d8 (S)	91	%.	87-110	1		10/06/18 03:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-9-GW-2-12 **Lab ID: 50206664004** Collected: 09/27/18 10:50 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:30	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/03/18 17:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:30	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:30	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:30	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	7	%.	10-108	1	10/02/18 18:00	10/03/18 17:30	321-60-8	S5
p-Terphenyl-d14 (S)	8	%.	10-167	1	10/02/18 18:00	10/03/18 17:30	1718-51-0	S5
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/06/18 04:56	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/06/18 04:56	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/06/18 04:56	107-13-1	
Benzene	ND	ug/L	5.0	1		10/06/18 04:56	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/06/18 04:56	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/06/18 04:56	74-97-5	L2
Bromodichloromethane	ND	ug/L	5.0	1		10/06/18 04:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/06/18 04:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/06/18 04:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/06/18 04:56	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/06/18 04:56	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/06/18 04:56	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/06/18 04:56	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/06/18 04:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/18 04:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/06/18 04:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/06/18 04:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/06/18 04:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/06/18 04:56	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 04:56	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 04:56	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/06/18 04:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/06/18 04:56	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/06/18 04:56	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-9-GW-2-12 **Lab ID: 50206664004** Collected: 09/27/18 10:50 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 04:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 04:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 04:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/06/18 04:56	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/06/18 04:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/18 04:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/18 04:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/18 04:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 04:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 04:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 04:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/06/18 04:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 04:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/06/18 04:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 04:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 04:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/06/18 04:56	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/06/18 04:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/06/18 04:56	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/06/18 04:56	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/06/18 04:56	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/06/18 04:56	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/06/18 04:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/06/18 04:56	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/06/18 04:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/06/18 04:56	108-10-1	L2
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/06/18 04:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/18 04:56	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/06/18 04:56	103-65-1	
Styrene	ND	ug/L	5.0	1		10/06/18 04:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 04:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 04:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/06/18 04:56	127-18-4	
Toluene	ND	ug/L	5.0	1		10/06/18 04:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 04:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 04:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/18 04:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/18 04:56	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/06/18 04:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/18 04:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/06/18 04:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 04:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 04:56	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/06/18 04:56	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/06/18 04:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/06/18 04:56	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-9-GW-2-12 **Lab ID: 50206664004** Collected: 09/27/18 10:50 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	107	%.	89-116	1		10/06/18 04:56	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	85-111	1		10/06/18 04:56	460-00-4	
Toluene-d8 (S)	90	%.	87-110	1		10/06/18 04:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-13-GW-5-15 **Lab ID: 50206664005** Collected: 09/27/18 12:15 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:39	120-12-7	
Benzo(a)anthracene	**0.37**	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:39	207-08-9	
Chrysene	**0.50**	ug/L	0.50	1	10/02/18 18:00	10/03/18 17:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:39	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:39	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	91-20-3	
Phenanthrene	**1.2**	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:39	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	38	%.	10-108	1	10/02/18 18:00	10/03/18 17:39	321-60-8	
p-Terphenyl-d14 (S)	41	%.	10-167	1	10/02/18 18:00	10/03/18 17:39	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/06/18 05:35	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/06/18 05:35	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/06/18 05:35	107-13-1	
Benzene	ND	ug/L	5.0	1		10/06/18 05:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/06/18 05:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/06/18 05:35	74-97-5	L2
Bromodichloromethane	ND	ug/L	5.0	1		10/06/18 05:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/06/18 05:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/06/18 05:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/06/18 05:35	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/06/18 05:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/06/18 05:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/06/18 05:35	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/06/18 05:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/18 05:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/06/18 05:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/06/18 05:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/06/18 05:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/06/18 05:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 05:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 05:35	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/06/18 05:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/06/18 05:35	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/06/18 05:35	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-13-GW-5-15 **Lab ID: 50206664005** Collected: 09/27/18 12:15 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 05:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 05:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 05:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/06/18 05:35	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/06/18 05:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/18 05:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/18 05:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/18 05:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 05:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 05:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 05:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/06/18 05:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 05:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/06/18 05:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 05:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 05:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/06/18 05:35	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/06/18 05:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/06/18 05:35	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/06/18 05:35	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/06/18 05:35	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/06/18 05:35	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/06/18 05:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/06/18 05:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/06/18 05:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/06/18 05:35	108-10-1	L2
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/06/18 05:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/18 05:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/06/18 05:35	103-65-1	
Styrene	ND	ug/L	5.0	1		10/06/18 05:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 05:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 05:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/06/18 05:35	127-18-4	
Toluene	ND	ug/L	5.0	1		10/06/18 05:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 05:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 05:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/18 05:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/18 05:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/06/18 05:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/18 05:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/06/18 05:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 05:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 05:35	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/06/18 05:35	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/06/18 05:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/06/18 05:35	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-13-GW-5-15 **Lab ID: 50206664005** Collected: 09/27/18 12:15 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	108	%.	89-116	1		10/06/18 05:35	1868-53-7	
4-Bromofluorobenzene (S)	109	%.	85-111	1		10/06/18 05:35	460-00-4	
Toluene-d8 (S)	88	%.	87-110	1		10/06/18 05:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-14-GW-6-16 **Lab ID: 50206664006** Collected: 09/27/18 13:30 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	**1.0**	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:49	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:49	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:49	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/03/18 17:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:49	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	206-44-0	
Fluorene	**1.1**	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:49	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	91-57-6	
Naphthalene	**1.2**	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	39	%.	10-108	1	10/02/18 18:00	10/03/18 17:49	321-60-8	
p-Terphenyl-d14 (S)	36	%.	10-167	1	10/02/18 18:00	10/03/18 17:49	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/06/18 06:51	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/06/18 06:51	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/06/18 06:51	107-13-1	
Benzene	ND	ug/L	5.0	1		10/06/18 06:51	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/06/18 06:51	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/06/18 06:51	74-97-5	L2
Bromodichloromethane	ND	ug/L	5.0	1		10/06/18 06:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/06/18 06:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/06/18 06:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/06/18 06:51	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/06/18 06:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/06/18 06:51	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/06/18 06:51	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/06/18 06:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/18 06:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/06/18 06:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/06/18 06:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/06/18 06:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/06/18 06:51	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 06:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 06:51	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/06/18 06:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/06/18 06:51	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/06/18 06:51	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-14-GW-6-16 **Lab ID: 50206664006** Collected: 09/27/18 13:30 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 06:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 06:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 06:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/06/18 06:51	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/06/18 06:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/18 06:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/18 06:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/18 06:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 06:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 06:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 06:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/06/18 06:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 06:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/06/18 06:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 06:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 06:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/06/18 06:51	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/06/18 06:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/06/18 06:51	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/06/18 06:51	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/06/18 06:51	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/06/18 06:51	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/06/18 06:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/06/18 06:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/06/18 06:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/06/18 06:51	108-10-1	L2
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/06/18 06:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/18 06:51	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/06/18 06:51	103-65-1	
Styrene	ND	ug/L	5.0	1		10/06/18 06:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 06:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 06:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/06/18 06:51	127-18-4	
Toluene	ND	ug/L	5.0	1		10/06/18 06:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 06:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 06:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/18 06:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/18 06:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/06/18 06:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/18 06:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/06/18 06:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 06:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 06:51	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/06/18 06:51	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/06/18 06:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/06/18 06:51	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-14-GW-6-16 **Lab ID: 50206664006** Collected: 09/27/18 13:30 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	98	%.	89-116	1		10/06/18 06:51	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	85-111	1		10/06/18 06:51	460-00-4	
Toluene-d8 (S)	95	%.	87-110	1		10/06/18 06:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-8-GW-6-11 **Lab ID: 50206664007** Collected: 09/27/18 18:15 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:58	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/03/18 17:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:58	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 17:58	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 17:58	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	31	%.	10-108	1	10/02/18 18:00	10/03/18 17:58	321-60-8	
p-Terphenyl-d14 (S)	39	%.	10-167	1	10/02/18 18:00	10/03/18 17:58	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/06/18 08:08	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/06/18 08:08	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/06/18 08:08	107-13-1	
Benzene	ND	ug/L	5.0	1		10/06/18 08:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/06/18 08:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/06/18 08:08	74-97-5	L2
Bromodichloromethane	ND	ug/L	5.0	1		10/06/18 08:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/06/18 08:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/06/18 08:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/06/18 08:08	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/06/18 08:08	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/06/18 08:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/06/18 08:08	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/06/18 08:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/18 08:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/06/18 08:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/06/18 08:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/06/18 08:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/06/18 08:08	74-87-3	R1
2-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 08:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 08:08	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/06/18 08:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/06/18 08:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/06/18 08:08	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-8-GW-6-11 **Lab ID: 50206664007** Collected: 09/27/18 18:15 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 08:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 08:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 08:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/06/18 08:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/06/18 08:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/18 08:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/18 08:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/18 08:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 08:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 08:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 08:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/06/18 08:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 08:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/06/18 08:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 08:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 08:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/06/18 08:08	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/06/18 08:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/06/18 08:08	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/06/18 08:08	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/06/18 08:08	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/06/18 08:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/06/18 08:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/06/18 08:08	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/06/18 08:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/06/18 08:08	108-10-1	L2
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/06/18 08:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/18 08:08	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/06/18 08:08	103-65-1	
Styrene	ND	ug/L	5.0	1		10/06/18 08:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 08:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 08:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/06/18 08:08	127-18-4	
Toluene	ND	ug/L	5.0	1		10/06/18 08:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 08:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 08:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/18 08:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/18 08:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/06/18 08:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/18 08:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/06/18 08:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 08:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 08:08	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/06/18 08:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/06/18 08:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/06/18 08:08	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-8-GW-6-11 **Lab ID: 50206664007** Collected: 09/27/18 18:15 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	102	%.	89-116	1		10/06/18 08:08	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	85-111	1		10/06/18 08:08	460-00-4	
Toluene-d8 (S)	94	%.	87-110	1		10/06/18 08:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-6-GW-4-14 **Lab ID: 50206664008** Collected: 09/27/18 16:40 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 18:08	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 18:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 18:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 18:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 18:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 18:08	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 18:00	10/03/18 18:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 18:08	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 18:00	10/03/18 18:08	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 18:00	10/03/18 18:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	25	%.	10-108	1	10/02/18 18:00	10/03/18 18:08	321-60-8	
p-Terphenyl-d14 (S)	29	%.	10-167	1	10/02/18 18:00	10/03/18 18:08	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/06/18 10:03	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/06/18 10:03	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/06/18 10:03	107-13-1	
Benzene	ND	ug/L	5.0	1		10/06/18 10:03	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/06/18 10:03	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/06/18 10:03	74-97-5	L2
Bromodichloromethane	ND	ug/L	5.0	1		10/06/18 10:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/06/18 10:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/06/18 10:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/06/18 10:03	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/06/18 10:03	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/06/18 10:03	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/06/18 10:03	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/06/18 10:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/18 10:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/06/18 10:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/06/18 10:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/06/18 10:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/06/18 10:03	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 10:03	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/06/18 10:03	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/06/18 10:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/06/18 10:03	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/06/18 10:03	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-6-GW-4-14 **Lab ID: 50206664008** Collected: 09/27/18 16:40 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 10:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 10:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/18 10:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/06/18 10:03	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/06/18 10:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/18 10:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/18 10:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/18 10:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 10:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/18 10:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 10:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/06/18 10:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/06/18 10:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/06/18 10:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 10:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/18 10:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/06/18 10:03	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/06/18 10:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/06/18 10:03	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/06/18 10:03	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/06/18 10:03	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/06/18 10:03	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/06/18 10:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/06/18 10:03	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/06/18 10:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/06/18 10:03	108-10-1	L2
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/06/18 10:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/18 10:03	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/06/18 10:03	103-65-1	
Styrene	ND	ug/L	5.0	1		10/06/18 10:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 10:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/18 10:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/06/18 10:03	127-18-4	
Toluene	ND	ug/L	5.0	1		10/06/18 10:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 10:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/06/18 10:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/18 10:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/18 10:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/06/18 10:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/18 10:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/06/18 10:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 10:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/06/18 10:03	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/06/18 10:03	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/06/18 10:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/06/18 10:03	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-6-GW-4-14 **Lab ID: 50206664008** Collected: 09/27/18 16:40 Received: 09/28/18 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	103	%.	89-116	1		10/06/18 10:03	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	85-111	1		10/06/18 10:03	460-00-4	
Toluene-d8 (S)	93	%.	87-110	1		10/06/18 10:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-9-4-6 **Lab ID: 50206664009** Collected: 09/27/18 11:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.8**	mg/kg	1.0	1	10/03/18 13:05	10/04/18 12:15	7440-38-2	
Barium	**98.0**	mg/kg	1.0	1	10/03/18 13:05	10/04/18 12:15	7440-39-3	
Cadmium	**0.60**	mg/kg	0.52	1	10/03/18 13:05	10/04/18 12:15	7440-43-9	
Chromium	**8.4**	mg/kg	1.0	1	10/03/18 13:05	10/04/18 12:15	7440-47-3	
Lead	**35.4**	mg/kg	1.0	1	10/03/18 13:05	10/04/18 12:15	7439-92-1	
Selenium	ND	mg/kg	1.0	1	10/03/18 13:05	10/04/18 12:15	7782-49-2	
Silver	ND	mg/kg	0.52	1	10/03/18 13:05	10/04/18 12:15	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.20	1	10/05/18 00:20	10/05/18 10:47	7439-97-6	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	83-32-9	
Acenaphthylene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	208-96-8	
Anthracene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	56-55-3	
Benzo(a)pyrene	**5.6**	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	50-32-8	
Benzo(b)fluoranthene	**6.4**	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	207-08-9	
Chrysene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	53-70-3	
Fluoranthene	**7.0**	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	206-44-0	
Fluorene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	91-57-6	
Naphthalene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	91-20-3	
Phenanthrene	ND	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	85-01-8	
Pyrene	**6.8**	ug/kg	5.3	1	10/05/18 10:50	10/05/18 22:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%.	40-107	1	10/05/18 10:50	10/05/18 22:01	321-60-8	
p-Terphenyl-d14 (S)	78	%.	35-115	1	10/05/18 10:50	10/05/18 22:01	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	105	1		10/09/18 01:27	67-64-1	
Acrolein	ND	ug/kg	105	1		10/09/18 01:27	107-02-8	
Acrylonitrile	ND	ug/kg	105	1		10/09/18 01:27	107-13-1	
Benzene	ND	ug/kg	5.2	1		10/09/18 01:27	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		10/09/18 01:27	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		10/09/18 01:27	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		10/09/18 01:27	75-27-4	
Bromoform	ND	ug/kg	5.2	1		10/09/18 01:27	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		10/09/18 01:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.2	1		10/09/18 01:27	78-93-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-9-4-6 **Lab ID: 50206664009** Collected: 09/27/18 11:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Butylbenzene	ND	ug/kg	5.2	1		10/09/18 01:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		10/09/18 01:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		10/09/18 01:27	98-06-6	
Carbon disulfide	ND	ug/kg	10.5	1		10/09/18 01:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		10/09/18 01:27	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		10/09/18 01:27	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		10/09/18 01:27	75-00-3	
Chloroform	ND	ug/kg	5.2	1		10/09/18 01:27	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		10/09/18 01:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		10/09/18 01:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		10/09/18 01:27	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		10/09/18 01:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		10/09/18 01:27	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		10/09/18 01:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		10/09/18 01:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		10/09/18 01:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		10/09/18 01:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	105	1		10/09/18 01:27	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		10/09/18 01:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		10/09/18 01:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		10/09/18 01:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		10/09/18 01:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		10/09/18 01:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		10/09/18 01:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		10/09/18 01:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		10/09/18 01:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		10/09/18 01:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		10/09/18 01:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		10/09/18 01:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		10/09/18 01:27	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		10/09/18 01:27	100-41-4	
Ethyl methacrylate	ND	ug/kg	105	1		10/09/18 01:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		10/09/18 01:27	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		10/09/18 01:27	110-54-3	
2-Hexanone	ND	ug/kg	105	1		10/09/18 01:27	591-78-6	
Iodomethane	ND	ug/kg	105	1		10/09/18 01:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		10/09/18 01:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		10/09/18 01:27	99-87-6	
Methylene Chloride	ND	ug/kg	21.0	1		10/09/18 01:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.2	1		10/09/18 01:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		10/09/18 01:27	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		10/09/18 01:27	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		10/09/18 01:27	103-65-1	
Styrene	ND	ug/kg	5.2	1		10/09/18 01:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		10/09/18 01:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		10/09/18 01:27	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-9-4-6 **Lab ID: 50206664009** Collected: 09/27/18 11:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/kg	5.2	1		10/09/18 01:27	127-18-4	
Toluene	ND	ug/kg	5.2	1		10/09/18 01:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		10/09/18 01:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		10/09/18 01:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		10/09/18 01:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		10/09/18 01:27	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		10/09/18 01:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		10/09/18 01:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		10/09/18 01:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		10/09/18 01:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		10/09/18 01:27	108-67-8	
Vinyl acetate	ND	ug/kg	105	1		10/09/18 01:27	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		10/09/18 01:27	75-01-4	
Xylene (Total)	ND	ug/kg	10.5	1		10/09/18 01:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	80-127	1		10/09/18 01:27	1868-53-7	
Toluene-d8 (S)	97	%.	72-136	1		10/09/18 01:27	2037-26-5	
4-Bromofluorobenzene (S)	77	%.	57-130	1		10/09/18 01:27	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**5.9**	%	0.10	1		10/01/18 15:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-13-2-4 **Lab ID: 50206664010** Collected: 09/27/18 12:45 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**4.2**	mg/kg	1.1	1	10/03/18 13:05	10/04/18 12:17	7440-38-2	
Barium	**11.1**	mg/kg	1.1	1	10/03/18 13:05	10/04/18 12:17	7440-39-3	
Cadmium	ND	mg/kg	0.54	1	10/03/18 13:05	10/04/18 12:17	7440-43-9	
Chromium	**6.4**	mg/kg	1.1	1	10/03/18 13:05	10/04/18 12:17	7440-47-3	
Lead	**10.4**	mg/kg	1.1	1	10/03/18 13:05	10/04/18 12:17	7439-92-1	
Selenium	ND	mg/kg	1.1	1	10/03/18 13:05	10/04/18 12:17	7782-49-2	
Silver	ND	mg/kg	0.54	1	10/03/18 13:05	10/04/18 12:17	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.21	1	10/05/18 00:20	10/05/18 10:50	7439-97-6	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	83-32-9	
Acenaphthylene	**37.7**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	208-96-8	
Anthracene	**61.1**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	120-12-7	
Benzo(a)anthracene	**179**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	56-55-3	
Benzo(a)pyrene	**163**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	50-32-8	
Benzo(b)fluoranthene	**183**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	205-99-2	
Benzo(g,h,i)perylene	**108**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	191-24-2	
Benzo(k)fluoranthene	**183**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	207-08-9	
Chrysene	**192**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	218-01-9	
Dibenz(a,h)anthracene	**49.3**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	53-70-3	
Fluoranthene	**354**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	206-44-0	
Fluorene	ND	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**105**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	193-39-5	
1-Methylnaphthalene	ND	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	91-57-6	
Naphthalene	ND	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	91-20-3	ED
Phenanthrene	**198**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	85-01-8	
Pyrene	**272**	ug/kg	27.1	5	10/09/18 10:42	10/09/18 13:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75	%.	40-107	5	10/09/18 10:42	10/09/18 13:13	321-60-8	
p-Terphenyl-d14 (S)	79	%.	35-115	5	10/09/18 10:42	10/09/18 13:13	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	108	1		10/06/18 09:43	67-64-1	M5
Acrolein	ND	ug/kg	108	1		10/06/18 09:43	107-02-8	M5
Acrylonitrile	ND	ug/kg	108	1		10/06/18 09:43	107-13-1	M5
Benzene	ND	ug/kg	5.4	1		10/06/18 09:43	71-43-2	M5
Bromobenzene	ND	ug/kg	5.4	1		10/06/18 09:43	108-86-1	M5
Bromochloromethane	ND	ug/kg	5.4	1		10/06/18 09:43	74-97-5	M5
Bromodichloromethane	ND	ug/kg	5.4	1		10/06/18 09:43	75-27-4	M5
Bromoform	ND	ug/kg	5.4	1		10/06/18 09:43	75-25-2	M5
Bromomethane	ND	ug/kg	5.4	1		10/06/18 09:43	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	26.9	1		10/06/18 09:43	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-13-2-4 **Lab ID: 50206664010** Collected: 09/27/18 12:45 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Butylbenzene	ND	ug/kg	5.4	1		10/06/18 09:43	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	5.4	1		10/06/18 09:43	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	5.4	1		10/06/18 09:43	98-06-6	M5
Carbon disulfide	ND	ug/kg	10.8	1		10/06/18 09:43	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	5.4	1		10/06/18 09:43	56-23-5	M5
Chlorobenzene	ND	ug/kg	5.4	1		10/06/18 09:43	108-90-7	M5
Chloroethane	ND	ug/kg	5.4	1		10/06/18 09:43	75-00-3	M5
Chloroform	ND	ug/kg	5.4	1		10/06/18 09:43	67-66-3	M5
Chloromethane	ND	ug/kg	5.4	1		10/06/18 09:43	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	5.4	1		10/06/18 09:43	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	5.4	1		10/06/18 09:43	106-43-4	M5
Dibromochloromethane	ND	ug/kg	5.4	1		10/06/18 09:43	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		10/06/18 09:43	106-93-4	M5
Dibromomethane	ND	ug/kg	5.4	1		10/06/18 09:43	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		10/06/18 09:43	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		10/06/18 09:43	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		10/06/18 09:43	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	108	1		10/06/18 09:43	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	5.4	1		10/06/18 09:43	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	5.4	1		10/06/18 09:43	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	5.4	1		10/06/18 09:43	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	5.4	1		10/06/18 09:43	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		10/06/18 09:43	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		10/06/18 09:43	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	5.4	1		10/06/18 09:43	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	5.4	1		10/06/18 09:43	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	5.4	1		10/06/18 09:43	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	5.4	1		10/06/18 09:43	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		10/06/18 09:43	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		10/06/18 09:43	10061-02-6	M5
Ethylbenzene	ND	ug/kg	5.4	1		10/06/18 09:43	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	108	1		10/06/18 09:43	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		10/06/18 09:43	87-68-3	M5
n-Hexane	ND	ug/kg	5.4	1		10/06/18 09:43	110-54-3	M5
2-Hexanone	ND	ug/kg	108	1		10/06/18 09:43	591-78-6	M5
Iodomethane	ND	ug/kg	108	1		10/06/18 09:43	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		10/06/18 09:43	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	5.4	1		10/06/18 09:43	99-87-6	M5
Methylene Chloride	ND	ug/kg	21.5	1		10/06/18 09:43	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.9	1		10/06/18 09:43	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		10/06/18 09:43	1634-04-4	M5
Naphthalene	ND	ug/kg	5.4	1		10/06/18 09:43	91-20-3	M5
n-Propylbenzene	ND	ug/kg	5.4	1		10/06/18 09:43	103-65-1	M5
Styrene	ND	ug/kg	5.4	1		10/06/18 09:43	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		10/06/18 09:43	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		10/06/18 09:43	79-34-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-13-2-4 **Lab ID: 50206664010** Collected: 09/27/18 12:45 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/kg	5.4	1		10/06/18 09:43	127-18-4	M5
Toluene	ND	ug/kg	5.4	1		10/06/18 09:43	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		10/06/18 09:43	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		10/06/18 09:43	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		10/06/18 09:43	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		10/06/18 09:43	79-00-5	M5
Trichloroethene	ND	ug/kg	5.4	1		10/06/18 09:43	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	5.4	1		10/06/18 09:43	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		10/06/18 09:43	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		10/06/18 09:43	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		10/06/18 09:43	108-67-8	M5
Vinyl acetate	ND	ug/kg	108	1		10/06/18 09:43	108-05-4	M5
Vinyl chloride	ND	ug/kg	5.4	1		10/06/18 09:43	75-01-4	M5
Xylene (Total)	ND	ug/kg	10.8	1		10/06/18 09:43	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	102	%.	80-127	1		10/06/18 09:43	1868-53-7	M5
Toluene-d8 (S)	99	%.	72-136	1		10/06/18 09:43	2037-26-5	M5
4-Bromofluorobenzene (S)	89	%.	57-130	1		10/06/18 09:43	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**8.8**	%	0.10	1		10/01/18 15:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-14-4-6 **Lab ID: 50206664011** Collected: 09/27/18 13:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**8.0**	mg/kg	1.2	1	10/03/18 13:05	10/04/18 12:19	7440-38-2	
Barium	**106**	mg/kg	1.2	1	10/03/18 13:05	10/04/18 12:19	7440-39-3	
Cadmium	ND	mg/kg	0.58	1	10/03/18 13:05	10/04/18 12:19	7440-43-9	
Chromium	**24.4**	mg/kg	1.2	1	10/03/18 13:05	10/04/18 12:19	7440-47-3	
Lead	**35.6**	mg/kg	1.2	1	10/03/18 13:05	10/04/18 12:19	7439-92-1	
Selenium	ND	mg/kg	1.2	1	10/03/18 13:05	10/04/18 12:19	7782-49-2	
Silver	ND	mg/kg	0.58	1	10/03/18 13:05	10/04/18 12:19	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	10/05/18 00:20	10/05/18 10:57	7439-97-6	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	83-32-9	
Acenaphthylene	**51.6**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	208-96-8	
Anthracene	**45.6**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	120-12-7	
Benzo(a)anthracene	**101**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	56-55-3	
Benzo(a)pyrene	**146**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	50-32-8	
Benzo(b)fluoranthene	**130**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	205-99-2	
Benzo(g,h,i)perylene	**141**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	191-24-2	
Benzo(k)fluoranthene	**135**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	207-08-9	
Chrysene	**125**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	53-70-3	
Fluoranthene	**218**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	206-44-0	
Fluorene	ND	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**104**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	193-39-5	
1-Methylnaphthalene	ND	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	90-12-0	N2
2-Methylnaphthalene	**33.2**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	91-57-6	
Naphthalene	**56.1**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	91-20-3	ED
Phenanthrene	**161**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	85-01-8	
Pyrene	**202**	ug/kg	31.1	5	10/09/18 10:42	10/09/18 13:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77	%.	40-107	5	10/09/18 10:42	10/09/18 13:31	321-60-8	
p-Terphenyl-d14 (S)	74	%.	35-115	5	10/09/18 10:42	10/09/18 13:31	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	93.5	1		10/06/18 10:21	67-64-1	M5
Acrolein	ND	ug/kg	93.5	1		10/06/18 10:21	107-02-8	M5
Acrylonitrile	ND	ug/kg	93.5	1		10/06/18 10:21	107-13-1	M5
Benzene	ND	ug/kg	4.7	1		10/06/18 10:21	71-43-2	M5
Bromobenzene	ND	ug/kg	4.7	1		10/06/18 10:21	108-86-1	M5
Bromochloromethane	ND	ug/kg	4.7	1		10/06/18 10:21	74-97-5	M5
Bromodichloromethane	ND	ug/kg	4.7	1		10/06/18 10:21	75-27-4	M5
Bromoform	ND	ug/kg	4.7	1		10/06/18 10:21	75-25-2	M5
Bromomethane	ND	ug/kg	4.7	1		10/06/18 10:21	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	23.4	1		10/06/18 10:21	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-14-4-6 **Lab ID: 50206664011** Collected: 09/27/18 13:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Butylbenzene	ND	ug/kg	4.7	1		10/06/18 10:21	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	4.7	1		10/06/18 10:21	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	4.7	1		10/06/18 10:21	98-06-6	M5
Carbon disulfide	ND	ug/kg	9.4	1		10/06/18 10:21	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	4.7	1		10/06/18 10:21	56-23-5	M5
Chlorobenzene	ND	ug/kg	4.7	1		10/06/18 10:21	108-90-7	M5
Chloroethane	ND	ug/kg	4.7	1		10/06/18 10:21	75-00-3	M5
Chloroform	ND	ug/kg	4.7	1		10/06/18 10:21	67-66-3	M5
Chloromethane	ND	ug/kg	4.7	1		10/06/18 10:21	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	4.7	1		10/06/18 10:21	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	4.7	1		10/06/18 10:21	106-43-4	M5
Dibromochloromethane	ND	ug/kg	4.7	1		10/06/18 10:21	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/06/18 10:21	106-93-4	M5
Dibromomethane	ND	ug/kg	4.7	1		10/06/18 10:21	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/06/18 10:21	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/06/18 10:21	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/06/18 10:21	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	93.5	1		10/06/18 10:21	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	4.7	1		10/06/18 10:21	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/06/18 10:21	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/06/18 10:21	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/06/18 10:21	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/06/18 10:21	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/06/18 10:21	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/06/18 10:21	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/06/18 10:21	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/06/18 10:21	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/06/18 10:21	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/06/18 10:21	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/06/18 10:21	10061-02-6	M5
Ethylbenzene	ND	ug/kg	4.7	1		10/06/18 10:21	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	93.5	1		10/06/18 10:21	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/06/18 10:21	87-68-3	M5
n-Hexane	ND	ug/kg	4.7	1		10/06/18 10:21	110-54-3	M5
2-Hexanone	ND	ug/kg	93.5	1		10/06/18 10:21	591-78-6	M5
Iodomethane	ND	ug/kg	93.5	1		10/06/18 10:21	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/06/18 10:21	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/06/18 10:21	99-87-6	M5
Methylene Chloride	ND	ug/kg	18.7	1		10/06/18 10:21	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.4	1		10/06/18 10:21	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/06/18 10:21	1634-04-4	M5
Naphthalene	ND	ug/kg	4.7	1		10/06/18 10:21	91-20-3	M5
n-Propylbenzene	ND	ug/kg	4.7	1		10/06/18 10:21	103-65-1	M5
Styrene	ND	ug/kg	4.7	1		10/06/18 10:21	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/06/18 10:21	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/06/18 10:21	79-34-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-14-4-6 **Lab ID: 50206664011** Collected: 09/27/18 13:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/kg	4.7	1		10/06/18 10:21	127-18-4	M5
Toluene	ND	ug/kg	4.7	1		10/06/18 10:21	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/06/18 10:21	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/06/18 10:21	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/06/18 10:21	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/06/18 10:21	79-00-5	M5
Trichloroethene	ND	ug/kg	4.7	1		10/06/18 10:21	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/06/18 10:21	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/06/18 10:21	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/06/18 10:21	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/06/18 10:21	108-67-8	M5
Vinyl acetate	ND	ug/kg	93.5	1		10/06/18 10:21	108-05-4	M5
Vinyl chloride	ND	ug/kg	4.7	1		10/06/18 10:21	75-01-4	M5
Xylene (Total)	ND	ug/kg	9.4	1		10/06/18 10:21	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	95	%.	80-127	1		10/06/18 10:21	1868-53-7	M5
Toluene-d8 (S)	98	%.	72-136	1		10/06/18 10:21	2037-26-5	M5
4-Bromofluorobenzene (S)	95	%.	57-130	1		10/06/18 10:21	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.7**	%	0.10	1		10/01/18 15:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-8-2-4 **Lab ID: 50206664012** Collected: 09/27/18 14:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	83-32-9	
Acenaphthylene	ND	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	208-96-8	
Anthracene	ND	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	120-12-7	
Benzo(a)anthracene	**122**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	56-55-3	
Benzo(a)pyrene	**104**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	50-32-8	
Benzo(b)fluoranthene	**148**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	205-99-2	
Benzo(g,h,i)perylene	**65.9**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	191-24-2	
Benzo(k)fluoranthene	**113**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	207-08-9	
Chrysene	**148**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	218-01-9	
Dibenz(a,h)anthracene	**30.9**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	53-70-3	
Fluoranthene	**223**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	206-44-0	
Fluorene	ND	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**72.4**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	193-39-5	
1-Methylnaphthalene	**60.9**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	90-12-0	N2
2-Methylnaphthalene	**73.7**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	91-57-6	
Naphthalene	**68.4**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	91-20-3	B,ED,P2
Phenanthrene	**199**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	85-01-8	
Pyrene	**180**	ug/kg	28.7	5	10/08/18 09:57	10/08/18 19:32	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	49	%.	40-107	5	10/08/18 09:57	10/08/18 19:32	321-60-8	
p-Terphenyl-d14 (S)	45	%.	35-115	5	10/08/18 09:57	10/08/18 19:32	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	87.7	1		10/06/18 10:41	67-64-1	M5
Acrolein	ND	ug/kg	87.7	1		10/06/18 10:41	107-02-8	M5
Acrylonitrile	ND	ug/kg	87.7	1		10/06/18 10:41	107-13-1	M5
Benzene	ND	ug/kg	4.4	1		10/06/18 10:41	71-43-2	M5
Bromobenzene	ND	ug/kg	4.4	1		10/06/18 10:41	108-86-1	M5
Bromochloromethane	ND	ug/kg	4.4	1		10/06/18 10:41	74-97-5	M5
Bromodichloromethane	ND	ug/kg	4.4	1		10/06/18 10:41	75-27-4	M5
Bromoform	ND	ug/kg	4.4	1		10/06/18 10:41	75-25-2	M5
Bromomethane	ND	ug/kg	4.4	1		10/06/18 10:41	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	21.9	1		10/06/18 10:41	78-93-3	M5
n-Butylbenzene	ND	ug/kg	4.4	1		10/06/18 10:41	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	4.4	1		10/06/18 10:41	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	4.4	1		10/06/18 10:41	98-06-6	M5
Carbon disulfide	ND	ug/kg	8.8	1		10/06/18 10:41	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	4.4	1		10/06/18 10:41	56-23-5	M5
Chlorobenzene	ND	ug/kg	4.4	1		10/06/18 10:41	108-90-7	M5
Chloroethane	ND	ug/kg	4.4	1		10/06/18 10:41	75-00-3	M5
Chloroform	ND	ug/kg	4.4	1		10/06/18 10:41	67-66-3	M5
Chloromethane	ND	ug/kg	4.4	1		10/06/18 10:41	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	4.4	1		10/06/18 10:41	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	4.4	1		10/06/18 10:41	106-43-4	M5
Dibromochloromethane	ND	ug/kg	4.4	1		10/06/18 10:41	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/06/18 10:41	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-8-2-4 **Lab ID: 50206664012** Collected: 09/27/18 14:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	4.4	1		10/06/18 10:41	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/06/18 10:41	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/06/18 10:41	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/06/18 10:41	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	87.7	1		10/06/18 10:41	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	4.4	1		10/06/18 10:41	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/06/18 10:41	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/06/18 10:41	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/06/18 10:41	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/06/18 10:41	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/06/18 10:41	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/06/18 10:41	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/06/18 10:41	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/06/18 10:41	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/06/18 10:41	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/06/18 10:41	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/06/18 10:41	10061-02-6	M5
Ethylbenzene	ND	ug/kg	4.4	1		10/06/18 10:41	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	87.7	1		10/06/18 10:41	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/06/18 10:41	87-68-3	M5
n-Hexane	ND	ug/kg	4.4	1		10/06/18 10:41	110-54-3	M5
2-Hexanone	ND	ug/kg	87.7	1		10/06/18 10:41	591-78-6	M5
Iodomethane	ND	ug/kg	87.7	1		10/06/18 10:41	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/06/18 10:41	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/06/18 10:41	99-87-6	M5
Methylene Chloride	ND	ug/kg	17.5	1		10/06/18 10:41	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.9	1		10/06/18 10:41	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/06/18 10:41	1634-04-4	M5
Naphthalene	ND	ug/kg	4.4	1		10/06/18 10:41	91-20-3	M5
n-Propylbenzene	ND	ug/kg	4.4	1		10/06/18 10:41	103-65-1	M5
Styrene	ND	ug/kg	4.4	1		10/06/18 10:41	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/06/18 10:41	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/06/18 10:41	79-34-5	M5
Tetrachloroethene	ND	ug/kg	4.4	1		10/06/18 10:41	127-18-4	M5
Toluene	ND	ug/kg	4.4	1		10/06/18 10:41	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/06/18 10:41	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/06/18 10:41	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/06/18 10:41	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/06/18 10:41	79-00-5	M5
Trichloroethene	ND	ug/kg	4.4	1		10/06/18 10:41	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/06/18 10:41	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/06/18 10:41	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/06/18 10:41	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/06/18 10:41	108-67-8	M5
Vinyl acetate	ND	ug/kg	87.7	1		10/06/18 10:41	108-05-4	M5
Vinyl chloride	ND	ug/kg	4.4	1		10/06/18 10:41	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-8-2-4 **Lab ID: 50206664012** Collected: 09/27/18 14:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	8.8	1		10/06/18 10:41	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	102	%.	80-127	1		10/06/18 10:41	1868-53-7	M5
Toluene-d8 (S)	97	%.	72-136	1		10/06/18 10:41	2037-26-5	M5
4-Bromofluorobenzene (S)	92	%.	57-130	1		10/06/18 10:41	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**12.8**	%	0.10	1		10/01/18 15:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-7-8-10 **Lab ID: 50206664013** Collected: 09/27/18 16:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	83-32-9	
Acenaphthylene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	208-96-8	
Anthracene	**14.4**	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	207-08-9	
Chrysene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	53-70-3	
Fluoranthene	**10.3**	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	206-44-0	
Fluorene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	193-39-5	
1-Methylnaphthalene	**7.9**	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	90-12-0	N2
2-Methylnaphthalene	**6.5**	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	91-57-6	
Naphthalene	**17.2**	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	91-20-3	B,P2
Phenanthrene	ND	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	85-01-8	
Pyrene	**19.0**	ug/kg	6.3	1	10/08/18 09:57	10/08/18 19:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	40-107	1	10/08/18 09:57	10/08/18 19:49	321-60-8	
p-Terphenyl-d14 (S)	73	%.	35-115	1	10/08/18 09:57	10/08/18 19:49	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	5130	50		10/08/18 15:16	67-64-1	M5
Acrolein	ND	ug/kg	5130	50		10/08/18 15:16	107-02-8	M5
Acrylonitrile	ND	ug/kg	5130	50		10/08/18 15:16	107-13-1	M5
Benzene	ND	ug/kg	256	50		10/08/18 15:16	71-43-2	1d,M5
Bromobenzene	ND	ug/kg	256	50		10/08/18 15:16	108-86-1	M5
Bromochloromethane	ND	ug/kg	256	50		10/08/18 15:16	74-97-5	M5
Bromodichloromethane	ND	ug/kg	256	50		10/08/18 15:16	75-27-4	M5
Bromoform	ND	ug/kg	256	50		10/08/18 15:16	75-25-2	M5
Bromomethane	ND	ug/kg	256	50		10/08/18 15:16	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	1280	50		10/08/18 15:16	78-93-3	M5
n-Butylbenzene	ND	ug/kg	256	50		10/08/18 15:16	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	256	50		10/08/18 15:16	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	256	50		10/08/18 15:16	98-06-6	M5
Carbon disulfide	ND	ug/kg	513	50		10/08/18 15:16	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	256	50		10/08/18 15:16	56-23-5	M5
Chlorobenzene	ND	ug/kg	256	50		10/08/18 15:16	108-90-7	M5
Chloroethane	ND	ug/kg	256	50		10/08/18 15:16	75-00-3	M5
Chloroform	ND	ug/kg	256	50		10/08/18 15:16	67-66-3	M5
Chloromethane	ND	ug/kg	256	50		10/08/18 15:16	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	256	50		10/08/18 15:16	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	256	50		10/08/18 15:16	106-43-4	M5
Dibromochloromethane	ND	ug/kg	256	50		10/08/18 15:16	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	256	50		10/08/18 15:16	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-7-8-10 **Lab ID: 50206664013** Collected: 09/27/18 16:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	256	50		10/08/18 15:16	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	256	50		10/08/18 15:16	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	256	50		10/08/18 15:16	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	256	50		10/08/18 15:16	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	5130	50		10/08/18 15:16	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	256	50		10/08/18 15:16	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	256	50		10/08/18 15:16	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	256	50		10/08/18 15:16	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	256	50		10/08/18 15:16	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	256	50		10/08/18 15:16	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	256	50		10/08/18 15:16	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	256	50		10/08/18 15:16	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	256	50		10/08/18 15:16	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	256	50		10/08/18 15:16	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	256	50		10/08/18 15:16	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	256	50		10/08/18 15:16	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	256	50		10/08/18 15:16	10061-02-6	M5
Ethylbenzene	ND	ug/kg	256	50		10/08/18 15:16	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	5130	50		10/08/18 15:16	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	256	50		10/08/18 15:16	87-68-3	M5
n-Hexane	ND	ug/kg	256	50		10/08/18 15:16	110-54-3	M5
2-Hexanone	ND	ug/kg	5130	50		10/08/18 15:16	591-78-6	M5
Iodomethane	ND	ug/kg	5130	50		10/08/18 15:16	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	256	50		10/08/18 15:16	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	256	50		10/08/18 15:16	99-87-6	M5
Methylene Chloride	ND	ug/kg	1030	50		10/08/18 15:16	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1280	50		10/08/18 15:16	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	256	50		10/08/18 15:16	1634-04-4	M5
Naphthalene	ND	ug/kg	256	50		10/08/18 15:16	91-20-3	M5
n-Propylbenzene	ND	ug/kg	256	50		10/08/18 15:16	103-65-1	M5
Styrene	ND	ug/kg	256	50		10/08/18 15:16	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	256	50		10/08/18 15:16	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	256	50		10/08/18 15:16	79-34-5	M5
Tetrachloroethene	ND	ug/kg	256	50		10/08/18 15:16	127-18-4	M5
Toluene	ND	ug/kg	256	50		10/08/18 15:16	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	256	50		10/08/18 15:16	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	256	50		10/08/18 15:16	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	256	50		10/08/18 15:16	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	256	50		10/08/18 15:16	79-00-5	M5
Trichloroethene	ND	ug/kg	256	50		10/08/18 15:16	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	256	50		10/08/18 15:16	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	256	50		10/08/18 15:16	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	256	50		10/08/18 15:16	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	256	50		10/08/18 15:16	108-67-8	M5
Vinyl acetate	ND	ug/kg	5130	50		10/08/18 15:16	108-05-4	M5
Vinyl chloride	ND	ug/kg	256	50		10/08/18 15:16	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-7-8-10 **Lab ID: 50206664013** Collected: 09/27/18 16:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	513	50		10/08/18 15:16	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	106	%.	80-127	50		10/08/18 15:16	1868-53-7	D3,M5
Toluene-d8 (S)	87	%.	72-136	50		10/08/18 15:16	2037-26-5	M5
4-Bromofluorobenzene (S)	98	%.	57-130	50		10/08/18 15:16	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**21.7**	%	0.10	1		10/01/18 15:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-7-12-14 **Lab ID: 50206664014** Collected: 09/27/18 16:05 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**27.6**	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	83-32-9	
Acenaphthylene	**15.2**	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	208-96-8	
Anthracene	**21.8**	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	207-08-9	
Chrysene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	53-70-3	
Fluoranthene	**7.4**	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	206-44-0	
Fluorene	**58.4**	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	193-39-5	
1-Methylnaphthalene	**107**	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	91-57-6	
Naphthalene	ND	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	91-20-3	
Phenanthrene	**64.3**	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	85-01-8	
Pyrene	**12.4**	ug/kg	7.1	1	10/05/18 10:50	10/05/18 16:11	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	40	%.	40-107	1	10/05/18 10:50	10/05/18 16:11	321-60-8	
p-Terphenyl-d14 (S)	29	%.	35-115	1	10/05/18 10:50	10/05/18 16:11	1718-51-0	S8
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	6010	50		10/08/18 15:54	67-64-1	M5
Acrolein	ND	ug/kg	6010	50		10/08/18 15:54	107-02-8	M5
Acrylonitrile	ND	ug/kg	6010	50		10/08/18 15:54	107-13-1	M5
Benzene	ND	ug/kg	301	50		10/08/18 15:54	71-43-2	1d,M5
Bromobenzene	ND	ug/kg	301	50		10/08/18 15:54	108-86-1	M5
Bromochloromethane	ND	ug/kg	301	50		10/08/18 15:54	74-97-5	M5
Bromodichloromethane	ND	ug/kg	301	50		10/08/18 15:54	75-27-4	M5
Bromoform	ND	ug/kg	301	50		10/08/18 15:54	75-25-2	M5
Bromomethane	ND	ug/kg	301	50		10/08/18 15:54	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	1500	50		10/08/18 15:54	78-93-3	M5
n-Butylbenzene	ND	ug/kg	301	50		10/08/18 15:54	104-51-8	M5
sec-Butylbenzene	**422**	ug/kg	301	50		10/08/18 15:54	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	301	50		10/08/18 15:54	98-06-6	M5
Carbon disulfide	ND	ug/kg	601	50		10/08/18 15:54	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	301	50		10/08/18 15:54	56-23-5	M5
Chlorobenzene	ND	ug/kg	301	50		10/08/18 15:54	108-90-7	M5
Chloroethane	ND	ug/kg	301	50		10/08/18 15:54	75-00-3	M5
Chloroform	ND	ug/kg	301	50		10/08/18 15:54	67-66-3	M5
Chloromethane	ND	ug/kg	301	50		10/08/18 15:54	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	301	50		10/08/18 15:54	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	301	50		10/08/18 15:54	106-43-4	M5
Dibromochloromethane	ND	ug/kg	301	50		10/08/18 15:54	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	301	50		10/08/18 15:54	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-7-12-14 **Lab ID: 50206664014** Collected: 09/27/18 16:05 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	301	50		10/08/18 15:54	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	301	50		10/08/18 15:54	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	301	50		10/08/18 15:54	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	301	50		10/08/18 15:54	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	6010	50		10/08/18 15:54	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	301	50		10/08/18 15:54	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	301	50		10/08/18 15:54	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	301	50		10/08/18 15:54	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	301	50		10/08/18 15:54	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	301	50		10/08/18 15:54	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	301	50		10/08/18 15:54	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	301	50		10/08/18 15:54	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	301	50		10/08/18 15:54	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	301	50		10/08/18 15:54	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	301	50		10/08/18 15:54	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	301	50		10/08/18 15:54	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	301	50		10/08/18 15:54	10061-02-6	M5
Ethylbenzene	ND	ug/kg	301	50		10/08/18 15:54	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	6010	50		10/08/18 15:54	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	301	50		10/08/18 15:54	87-68-3	M5
n-Hexane	ND	ug/kg	301	50		10/08/18 15:54	110-54-3	M5
2-Hexanone	ND	ug/kg	6010	50		10/08/18 15:54	591-78-6	M5
Iodomethane	ND	ug/kg	6010	50		10/08/18 15:54	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	301	50		10/08/18 15:54	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	301	50		10/08/18 15:54	99-87-6	M5
Methylene Chloride	ND	ug/kg	1200	50		10/08/18 15:54	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1500	50		10/08/18 15:54	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	301	50		10/08/18 15:54	1634-04-4	M5
Naphthalene	ND	ug/kg	301	50		10/08/18 15:54	91-20-3	M5
n-Propylbenzene	ND	ug/kg	301	50		10/08/18 15:54	103-65-1	M5
Styrene	ND	ug/kg	301	50		10/08/18 15:54	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	301	50		10/08/18 15:54	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	301	50		10/08/18 15:54	79-34-5	M5
Tetrachloroethene	ND	ug/kg	301	50		10/08/18 15:54	127-18-4	M5
Toluene	ND	ug/kg	301	50		10/08/18 15:54	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	301	50		10/08/18 15:54	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	301	50		10/08/18 15:54	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	301	50		10/08/18 15:54	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	301	50		10/08/18 15:54	79-00-5	M5
Trichloroethene	ND	ug/kg	301	50		10/08/18 15:54	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	301	50		10/08/18 15:54	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	301	50		10/08/18 15:54	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	301	50		10/08/18 15:54	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	301	50		10/08/18 15:54	108-67-8	M5
Vinyl acetate	ND	ug/kg	6010	50		10/08/18 15:54	108-05-4	M5
Vinyl chloride	ND	ug/kg	301	50		10/08/18 15:54	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-7-12-14 **Lab ID: 50206664014** Collected: 09/27/18 16:05 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	601	50		10/08/18 15:54	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	88	%.	80-127	50		10/08/18 15:54	1868-53-7	D3,M5
Toluene-d8 (S)	112	%.	72-136	50		10/08/18 15:54	2037-26-5	M5
4-Bromofluorobenzene (S)	102	%.	57-130	50		10/08/18 15:54	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**30.6**	%	0.10	1		10/01/18 15:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-6-4-6 **Lab ID: 50206664015** Collected: 09/27/18 16:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	83-32-9	
Acenaphthylene	**33.4**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	208-96-8	
Anthracene	**26.5**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	120-12-7	
Benzo(a)anthracene	**95.3**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	56-55-3	
Benzo(a)pyrene	**83.0**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	50-32-8	
Benzo(b)fluoranthene	**90.4**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	205-99-2	
Benzo(g,h,i)perylene	**73.7**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	191-24-2	
Benzo(k)fluoranthene	**75.9**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	207-08-9	
Chrysene	**126**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	53-70-3	
Fluoranthene	**157**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	206-44-0	
Fluorene	ND	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**48.8**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	193-39-5	
1-Methylnaphthalene	**157**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	90-12-0	N2
2-Methylnaphthalene	**190**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	91-57-6	
Naphthalene	**84.6**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	91-20-3	ED
Phenanthrene	**268**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	85-01-8	
Pyrene	**159**	ug/kg	26.2	5	10/03/18 11:50	10/04/18 10:43	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77	%.	40-107	5	10/03/18 11:50	10/04/18 10:43	321-60-8	
p-Terphenyl-d14 (S)	85	%.	35-115	5	10/03/18 11:50	10/04/18 10:43	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**139**	ug/kg	119	1		10/08/18 16:32	67-64-1	M5
Acrolein	ND	ug/kg	119	1		10/08/18 16:32	107-02-8	M5
Acrylonitrile	ND	ug/kg	119	1		10/08/18 16:32	107-13-1	M5
Benzene	ND	ug/kg	6.0	1		10/08/18 16:32	71-43-2	M5
Bromobenzene	ND	ug/kg	6.0	1		10/08/18 16:32	108-86-1	M5
Bromochloromethane	ND	ug/kg	6.0	1		10/08/18 16:32	74-97-5	M5
Bromodichloromethane	ND	ug/kg	6.0	1		10/08/18 16:32	75-27-4	M5
Bromoform	ND	ug/kg	6.0	1		10/08/18 16:32	75-25-2	M5
Bromomethane	ND	ug/kg	6.0	1		10/08/18 16:32	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	29.8	1		10/08/18 16:32	78-93-3	M5
n-Butylbenzene	ND	ug/kg	6.0	1		10/08/18 16:32	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	6.0	1		10/08/18 16:32	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	6.0	1		10/08/18 16:32	98-06-6	M5
Carbon disulfide	ND	ug/kg	11.9	1		10/08/18 16:32	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	6.0	1		10/08/18 16:32	56-23-5	M5
Chlorobenzene	ND	ug/kg	6.0	1		10/08/18 16:32	108-90-7	M5
Chloroethane	ND	ug/kg	6.0	1		10/08/18 16:32	75-00-3	M5
Chloroform	ND	ug/kg	6.0	1		10/08/18 16:32	67-66-3	M5
Chloromethane	ND	ug/kg	6.0	1		10/08/18 16:32	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	6.0	1		10/08/18 16:32	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	6.0	1		10/08/18 16:32	106-43-4	M5
Dibromochloromethane	ND	ug/kg	6.0	1		10/08/18 16:32	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	6.0	1		10/08/18 16:32	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-6-4-6 **Lab ID: 50206664015** Collected: 09/27/18 16:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	6.0	1		10/08/18 16:32	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	6.0	1		10/08/18 16:32	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	6.0	1		10/08/18 16:32	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	6.0	1		10/08/18 16:32	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	119	1		10/08/18 16:32	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	6.0	1		10/08/18 16:32	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	6.0	1		10/08/18 16:32	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	6.0	1		10/08/18 16:32	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	6.0	1		10/08/18 16:32	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	6.0	1		10/08/18 16:32	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	6.0	1		10/08/18 16:32	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	6.0	1		10/08/18 16:32	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	6.0	1		10/08/18 16:32	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	6.0	1		10/08/18 16:32	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	6.0	1		10/08/18 16:32	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	6.0	1		10/08/18 16:32	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	6.0	1		10/08/18 16:32	10061-02-6	M5
Ethylbenzene	ND	ug/kg	6.0	1		10/08/18 16:32	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	119	1		10/08/18 16:32	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	6.0	1		10/08/18 16:32	87-68-3	M5
n-Hexane	ND	ug/kg	6.0	1		10/08/18 16:32	110-54-3	M5
2-Hexanone	ND	ug/kg	119	1		10/08/18 16:32	591-78-6	M5
Iodomethane	ND	ug/kg	119	1		10/08/18 16:32	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	6.0	1		10/08/18 16:32	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	6.0	1		10/08/18 16:32	99-87-6	M5
Methylene Chloride	ND	ug/kg	23.8	1		10/08/18 16:32	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.8	1		10/08/18 16:32	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	6.0	1		10/08/18 16:32	1634-04-4	M5
Naphthalene	ND	ug/kg	6.0	1		10/08/18 16:32	91-20-3	M5
n-Propylbenzene	ND	ug/kg	6.0	1		10/08/18 16:32	103-65-1	M5
Styrene	ND	ug/kg	6.0	1		10/08/18 16:32	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.0	1		10/08/18 16:32	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.0	1		10/08/18 16:32	79-34-5	M5
Tetrachloroethene	ND	ug/kg	6.0	1		10/08/18 16:32	127-18-4	M5
Toluene	ND	ug/kg	6.0	1		10/08/18 16:32	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	6.0	1		10/08/18 16:32	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	6.0	1		10/08/18 16:32	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	6.0	1		10/08/18 16:32	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	6.0	1		10/08/18 16:32	79-00-5	M5
Trichloroethene	ND	ug/kg	6.0	1		10/08/18 16:32	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	6.0	1		10/08/18 16:32	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	6.0	1		10/08/18 16:32	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	6.0	1		10/08/18 16:32	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	6.0	1		10/08/18 16:32	108-67-8	M5
Vinyl acetate	ND	ug/kg	119	1		10/08/18 16:32	108-05-4	M5
Vinyl chloride	ND	ug/kg	6.0	1		10/08/18 16:32	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-6-4-6 **Lab ID: 50206664015** Collected: 09/27/18 16:50 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	11.9	1		10/08/18 16:32	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	45	%.	80-127	1		10/08/18 16:32	1868-53-7	M5,S2
Toluene-d8 (S)	117	%.	72-136	1		10/08/18 16:32	2037-26-5	M5
4-Bromofluorobenzene (S)	81	%.	57-130	1		10/08/18 16:32	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**4.9**	%	0.10	1		10/01/18 15:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-5-2-4 **Lab ID: 50206664016** Collected: 09/27/18 18:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	83-32-9	
Acenaphthylene	**166**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	208-96-8	
Anthracene	**156**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	120-12-7	
Benzo(a)anthracene	**608**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	56-55-3	
Benzo(a)pyrene	**593**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	50-32-8	
Benzo(b)fluoranthene	**637**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	205-99-2	
Benzo(g,h,i)perylene	**481**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	191-24-2	
Benzo(k)fluoranthene	**514**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	207-08-9	
Chrysene	**673**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	218-01-9	
Dibenz(a,h)anthracene	**171**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	53-70-3	
Fluoranthene	**1190**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	206-44-0	
Fluorene	ND	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**429**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	193-39-5	
1-Methylnaphthalene	**276**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	90-12-0	N2
2-Methylnaphthalene	**351**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	91-57-6	
Naphthalene	**638**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	91-20-3	ED
Phenanthrene	**872**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	85-01-8	
Pyrene	**1060**	ug/kg	29.0	5	10/03/18 11:50	10/04/18 10:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%.	40-107	5	10/03/18 11:50	10/04/18 10:59	321-60-8	
p-Terphenyl-d14 (S)	80	%.	35-115	5	10/03/18 11:50	10/04/18 10:59	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	114	1		10/08/18 19:05	67-64-1	M5
Acrolein	ND	ug/kg	114	1		10/08/18 19:05	107-02-8	M5
Acrylonitrile	ND	ug/kg	114	1		10/08/18 19:05	107-13-1	M5
Benzene	ND	ug/kg	5.7	1		10/08/18 19:05	71-43-2	M5
Bromobenzene	ND	ug/kg	5.7	1		10/08/18 19:05	108-86-1	M5
Bromochloromethane	ND	ug/kg	5.7	1		10/08/18 19:05	74-97-5	M5
Bromodichloromethane	ND	ug/kg	5.7	1		10/08/18 19:05	75-27-4	M5
Bromoform	ND	ug/kg	5.7	1		10/08/18 19:05	75-25-2	M5
Bromomethane	ND	ug/kg	5.7	1		10/08/18 19:05	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	28.4	1		10/08/18 19:05	78-93-3	M5
n-Butylbenzene	ND	ug/kg	5.7	1		10/08/18 19:05	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	5.7	1		10/08/18 19:05	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	5.7	1		10/08/18 19:05	98-06-6	M5
Carbon disulfide	ND	ug/kg	11.4	1		10/08/18 19:05	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	5.7	1		10/08/18 19:05	56-23-5	M5
Chlorobenzene	ND	ug/kg	5.7	1		10/08/18 19:05	108-90-7	M5
Chloroethane	ND	ug/kg	5.7	1		10/08/18 19:05	75-00-3	M5
Chloroform	ND	ug/kg	5.7	1		10/08/18 19:05	67-66-3	M5
Chloromethane	ND	ug/kg	5.7	1		10/08/18 19:05	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	5.7	1		10/08/18 19:05	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	5.7	1		10/08/18 19:05	106-43-4	M5
Dibromochloromethane	ND	ug/kg	5.7	1		10/08/18 19:05	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1		10/08/18 19:05	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-5-2-4 **Lab ID: 50206664016** Collected: 09/27/18 18:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	5.7	1		10/08/18 19:05	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	5.7	1		10/08/18 19:05	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	5.7	1		10/08/18 19:05	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	5.7	1		10/08/18 19:05	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	114	1		10/08/18 19:05	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	5.7	1		10/08/18 19:05	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	5.7	1		10/08/18 19:05	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	5.7	1		10/08/18 19:05	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	5.7	1		10/08/18 19:05	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1		10/08/18 19:05	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1		10/08/18 19:05	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	5.7	1		10/08/18 19:05	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	5.7	1		10/08/18 19:05	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	5.7	1		10/08/18 19:05	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	5.7	1		10/08/18 19:05	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1		10/08/18 19:05	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1		10/08/18 19:05	10061-02-6	M5
Ethylbenzene	ND	ug/kg	5.7	1		10/08/18 19:05	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	114	1		10/08/18 19:05	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1		10/08/18 19:05	87-68-3	M5
n-Hexane	ND	ug/kg	5.7	1		10/08/18 19:05	110-54-3	M5
2-Hexanone	ND	ug/kg	114	1		10/08/18 19:05	591-78-6	M5
Iodomethane	ND	ug/kg	114	1		10/08/18 19:05	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1		10/08/18 19:05	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	5.7	1		10/08/18 19:05	99-87-6	M5
Methylene Chloride	ND	ug/kg	22.7	1		10/08/18 19:05	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	28.4	1		10/08/18 19:05	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	5.7	1		10/08/18 19:05	1634-04-4	M5
Naphthalene	ND	ug/kg	5.7	1		10/08/18 19:05	91-20-3	M5
n-Propylbenzene	ND	ug/kg	5.7	1		10/08/18 19:05	103-65-1	M5
Styrene	ND	ug/kg	5.7	1		10/08/18 19:05	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1		10/08/18 19:05	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1		10/08/18 19:05	79-34-5	M5
Tetrachloroethene	ND	ug/kg	5.7	1		10/08/18 19:05	127-18-4	M5
Toluene	ND	ug/kg	5.7	1		10/08/18 19:05	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1		10/08/18 19:05	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1		10/08/18 19:05	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	5.7	1		10/08/18 19:05	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	5.7	1		10/08/18 19:05	79-00-5	M5
Trichloroethene	ND	ug/kg	5.7	1		10/08/18 19:05	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	5.7	1		10/08/18 19:05	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	5.7	1		10/08/18 19:05	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1		10/08/18 19:05	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1		10/08/18 19:05	108-67-8	M5
Vinyl acetate	ND	ug/kg	114	1		10/08/18 19:05	108-05-4	M5
Vinyl chloride	ND	ug/kg	5.7	1		10/08/18 19:05	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-5-2-4 **Lab ID: 50206664016** Collected: 09/27/18 18:00 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	11.4	1		10/08/18 19:05	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	118	%.	80-127	1		10/08/18 19:05	1868-53-7	M5
Toluene-d8 (S)	108	%.	72-136	1		10/08/18 19:05	2037-26-5	M5
4-Bromofluorobenzene (S)	69	%.	57-130	1		10/08/18 19:05	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**14.7**	%	0.10	1		10/01/18 15:51		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-5-8-10 **Lab ID: 50206664017** Collected: 09/27/18 18:10 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	83-32-9	
Acenaphthylene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	208-96-8	
Anthracene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	207-08-9	
Chrysene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	53-70-3	
Fluoranthene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	206-44-0	
Fluorene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	91-57-6	
Naphthalene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	91-20-3	
Phenanthrene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	85-01-8	
Pyrene	ND	ug/kg	6.2	1	10/03/18 11:50	10/04/18 11:16	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	40-107	1	10/03/18 11:50	10/04/18 11:16	321-60-8	
p-Terphenyl-d14 (S)	56	%.	35-115	1	10/03/18 11:50	10/04/18 11:16	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	97.7	1		10/08/18 17:49	67-64-1	M5
Acrolein	ND	ug/kg	97.7	1		10/08/18 17:49	107-02-8	M5
Acrylonitrile	ND	ug/kg	97.7	1		10/08/18 17:49	107-13-1	M5
Benzene	ND	ug/kg	4.9	1		10/08/18 17:49	71-43-2	M5
Bromobenzene	ND	ug/kg	4.9	1		10/08/18 17:49	108-86-1	M5
Bromochloromethane	ND	ug/kg	4.9	1		10/08/18 17:49	74-97-5	M5
Bromodichloromethane	ND	ug/kg	4.9	1		10/08/18 17:49	75-27-4	M5
Bromoform	ND	ug/kg	4.9	1		10/08/18 17:49	75-25-2	M5
Bromomethane	ND	ug/kg	4.9	1		10/08/18 17:49	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	24.4	1		10/08/18 17:49	78-93-3	M5
n-Butylbenzene	ND	ug/kg	4.9	1		10/08/18 17:49	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	4.9	1		10/08/18 17:49	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	4.9	1		10/08/18 17:49	98-06-6	M5
Carbon disulfide	ND	ug/kg	9.8	1		10/08/18 17:49	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	4.9	1		10/08/18 17:49	56-23-5	M5
Chlorobenzene	ND	ug/kg	4.9	1		10/08/18 17:49	108-90-7	M5
Chloroethane	ND	ug/kg	4.9	1		10/08/18 17:49	75-00-3	M5
Chloroform	ND	ug/kg	4.9	1		10/08/18 17:49	67-66-3	M5
Chloromethane	ND	ug/kg	4.9	1		10/08/18 17:49	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	4.9	1		10/08/18 17:49	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	4.9	1		10/08/18 17:49	106-43-4	M5
Dibromochloromethane	ND	ug/kg	4.9	1		10/08/18 17:49	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		10/08/18 17:49	106-93-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-5-8-10 **Lab ID: 50206664017** Collected: 09/27/18 18:10 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	4.9	1		10/08/18 17:49	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		10/08/18 17:49	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		10/08/18 17:49	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		10/08/18 17:49	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	97.7	1		10/08/18 17:49	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	4.9	1		10/08/18 17:49	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	4.9	1		10/08/18 17:49	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	4.9	1		10/08/18 17:49	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	4.9	1		10/08/18 17:49	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/08/18 17:49	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/08/18 17:49	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	4.9	1		10/08/18 17:49	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	4.9	1		10/08/18 17:49	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	4.9	1		10/08/18 17:49	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	4.9	1		10/08/18 17:49	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/08/18 17:49	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/08/18 17:49	10061-02-6	M5
Ethylbenzene	ND	ug/kg	4.9	1		10/08/18 17:49	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	97.7	1		10/08/18 17:49	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		10/08/18 17:49	87-68-3	M5
n-Hexane	ND	ug/kg	4.9	1		10/08/18 17:49	110-54-3	M5
2-Hexanone	ND	ug/kg	97.7	1		10/08/18 17:49	591-78-6	M5
Iodomethane	ND	ug/kg	97.7	1		10/08/18 17:49	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		10/08/18 17:49	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	4.9	1		10/08/18 17:49	99-87-6	M5
Methylene Chloride	ND	ug/kg	19.5	1		10/08/18 17:49	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.4	1		10/08/18 17:49	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		10/08/18 17:49	1634-04-4	M5
Naphthalene	ND	ug/kg	4.9	1		10/08/18 17:49	91-20-3	M5
n-Propylbenzene	ND	ug/kg	4.9	1		10/08/18 17:49	103-65-1	M5
Styrene	ND	ug/kg	4.9	1		10/08/18 17:49	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/08/18 17:49	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/08/18 17:49	79-34-5	M5
Tetrachloroethene	ND	ug/kg	4.9	1		10/08/18 17:49	127-18-4	M5
Toluene	ND	ug/kg	4.9	1		10/08/18 17:49	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		10/08/18 17:49	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		10/08/18 17:49	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		10/08/18 17:49	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		10/08/18 17:49	79-00-5	M5
Trichloroethene	ND	ug/kg	4.9	1		10/08/18 17:49	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	4.9	1		10/08/18 17:49	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		10/08/18 17:49	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		10/08/18 17:49	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		10/08/18 17:49	108-67-8	M5
Vinyl acetate	ND	ug/kg	97.7	1		10/08/18 17:49	108-05-4	M5
Vinyl chloride	ND	ug/kg	4.9	1		10/08/18 17:49	75-01-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Indiana University Health
Pace Project No.: 50206664

Sample: SB-5-8-10 **Lab ID: 50206664017** Collected: 09/27/18 18:10 Received: 09/28/18 12:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/kg	9.8	1		10/08/18 17:49	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	106	%.	80-127	1		10/08/18 17:49	1868-53-7	M5
Toluene-d8 (S)	92	%.	72-136	1		10/08/18 17:49	2037-26-5	M5
4-Bromofluorobenzene (S)	92	%.	57-130	1		10/08/18 17:49	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.0**	%	0.10	1		10/01/18 15:51		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 464593 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 50206664009, 50206664010, 50206664011

METHOD BLANK: 2144355 Matrix: Solid
Associated Lab Samples: 50206664009, 50206664010, 50206664011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.21	10/05/18 10:28	

LABORATORY CONTROL SAMPLE: 2144356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.49	0.49	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144357 2144358

Parameter	Units	50206768002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.61	.56	0.63	0.60	95	96	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 464083 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50206664009, 50206664010, 50206664011

METHOD BLANK: 2142270 Matrix: Solid
Associated Lab Samples: 50206664009, 50206664010, 50206664011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	10/04/18 11:24	
Barium	mg/kg	ND	1.0	10/04/18 11:24	
Cadmium	mg/kg	ND	0.50	10/04/18 11:24	
Chromium	mg/kg	ND	1.0	10/04/18 11:24	
Lead	mg/kg	ND	1.0	10/04/18 11:24	
Selenium	mg/kg	ND	1.0	10/04/18 11:24	
Silver	mg/kg	ND	0.50	10/04/18 11:24	

LABORATORY CONTROL SAMPLE: 2142271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	46.2	92	80-120	
Barium	mg/kg	50	49.7	99	80-120	
Cadmium	mg/kg	50	46.0	92	80-120	
Chromium	mg/kg	50	45.8	92	80-120	
Lead	mg/kg	50	45.4	91	80-120	
Selenium	mg/kg	50	47.7	95	80-120	
Silver	mg/kg	25	23.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2142272 2142273

Parameter	Units	50206683001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	10.3	54.5	53.1	53.4	49.5	79	74	75-125	8	20	M0
Barium	mg/kg	74.4	54.5	53.1	122	111	87	70	75-125	9	20	M0
Cadmium	mg/kg	ND	54.5	53.1	43.9	40.8	80	76	75-125	7	20	
Chromium	mg/kg	14.3	54.5	53.1	59.6	52.5	83	72	75-125	13	20	M0
Lead	mg/kg	9.4	54.5	53.1	48.1	43.2	71	63	75-125	11	20	M3
Selenium	mg/kg	ND	54.5	53.1	44.3	41.0	80	76	75-125	8	20	
Silver	mg/kg	ND	27.2	26.6	23.3	22.2	85	83	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 465164 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50206664001, 50206664002, 50206664004, 50206664005, 50206664006, 50206664007, 50206664008

METHOD BLANK: 2147141 Matrix: Water
Associated Lab Samples: 50206664001, 50206664002, 50206664004, 50206664005, 50206664006, 50206664007, 50206664008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/06/18 01:07	
1,1,1-Trichloroethane	ug/L	ND	5.0	10/06/18 01:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/06/18 01:07	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/06/18 01:07	
1,1-Dichloroethane	ug/L	ND	5.0	10/06/18 01:07	
1,1-Dichloroethene	ug/L	ND	5.0	10/06/18 01:07	
1,1-Dichloropropene	ug/L	ND	5.0	10/06/18 01:07	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/06/18 01:07	
1,2,3-Trichloropropane	ug/L	ND	5.0	10/06/18 01:07	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/06/18 01:07	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/06/18 01:07	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/06/18 01:07	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/06/18 01:07	
1,2-Dichloroethane	ug/L	ND	5.0	10/06/18 01:07	
1,2-Dichloropropane	ug/L	ND	5.0	10/06/18 01:07	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/06/18 01:07	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/06/18 01:07	
1,3-Dichloropropane	ug/L	ND	5.0	10/06/18 01:07	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/06/18 01:07	
2,2-Dichloropropane	ug/L	ND	5.0	10/06/18 01:07	
2-Butanone (MEK)	ug/L	ND	25.0	10/06/18 01:07	
2-Chlorotoluene	ug/L	ND	5.0	10/06/18 01:07	
2-Hexanone	ug/L	ND	25.0	10/06/18 01:07	
4-Chlorotoluene	ug/L	ND	5.0	10/06/18 01:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/06/18 01:07	
Acetone	ug/L	ND	100	10/06/18 01:07	
Acrolein	ug/L	ND	50.0	10/06/18 01:07	
Acrylonitrile	ug/L	ND	100	10/06/18 01:07	
Benzene	ug/L	ND	5.0	10/06/18 01:07	
Bromobenzene	ug/L	ND	5.0	10/06/18 01:07	
Bromochloromethane	ug/L	ND	5.0	10/06/18 01:07	
Bromodichloromethane	ug/L	ND	5.0	10/06/18 01:07	
Bromoform	ug/L	ND	5.0	10/06/18 01:07	
Bromomethane	ug/L	ND	5.0	10/06/18 01:07	
Carbon disulfide	ug/L	ND	10.0	10/06/18 01:07	
Carbon tetrachloride	ug/L	ND	5.0	10/06/18 01:07	
Chlorobenzene	ug/L	ND	5.0	10/06/18 01:07	
Chloroethane	ug/L	ND	5.0	10/06/18 01:07	
Chloroform	ug/L	ND	5.0	10/06/18 01:07	
Chloromethane	ug/L	ND	5.0	10/06/18 01:07	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/06/18 01:07	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

METHOD BLANK: 2147141 Matrix: Water
Associated Lab Samples: 50206664001, 50206664002, 50206664004, 50206664005, 50206664006, 50206664007, 50206664008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/06/18 01:07	
Dibromochloromethane	ug/L	ND	5.0	10/06/18 01:07	
Dibromomethane	ug/L	ND	5.0	10/06/18 01:07	
Dichlorodifluoromethane	ug/L	ND	5.0	10/06/18 01:07	
Ethyl methacrylate	ug/L	ND	100	10/06/18 01:07	
Ethylbenzene	ug/L	ND	5.0	10/06/18 01:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/06/18 01:07	
Iodomethane	ug/L	ND	10.0	10/06/18 01:07	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/06/18 01:07	
Methyl-tert-butyl ether	ug/L	ND	4.0	10/06/18 01:07	
Methylene Chloride	ug/L	ND	5.0	10/06/18 01:07	
n-Butylbenzene	ug/L	ND	5.0	10/06/18 01:07	
n-Hexane	ug/L	ND	5.0	10/06/18 01:07	
n-Propylbenzene	ug/L	ND	5.0	10/06/18 01:07	
Naphthalene	ug/L	ND	5.0	10/06/18 01:07	
p-Isopropyltoluene	ug/L	ND	5.0	10/06/18 01:07	
sec-Butylbenzene	ug/L	ND	5.0	10/06/18 01:07	
Styrene	ug/L	ND	5.0	10/06/18 01:07	
tert-Butylbenzene	ug/L	ND	5.0	10/06/18 01:07	
Tetrachloroethene	ug/L	ND	5.0	10/06/18 01:07	
Toluene	ug/L	ND	5.0	10/06/18 01:07	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/06/18 01:07	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/06/18 01:07	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/06/18 01:07	
Trichloroethene	ug/L	ND	5.0	10/06/18 01:07	
Trichlorofluoromethane	ug/L	ND	5.0	10/06/18 01:07	
Vinyl acetate	ug/L	ND	50.0	10/06/18 01:07	
Vinyl chloride	ug/L	ND	2.0	10/06/18 01:07	
Xylene (Total)	ug/L	ND	10.0	10/06/18 01:07	
4-Bromofluorobenzene (S)	%.	94	85-111	10/06/18 01:07	
Dibromofluoromethane (S)	%.	103	89-116	10/06/18 01:07	
Toluene-d8 (S)	%.	93	87-110	10/06/18 01:07	

LABORATORY CONTROL SAMPLE: 2147142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	80-120	
1,1,1-Trichloroethane	ug/L	50	49.2	98	74-126	
1,1,2,2-Tetrachloroethane	ug/L	50	41.7	83	73-117	
1,1,2-Trichloroethane	ug/L	50	47.2	94	74-119	
1,1-Dichloroethane	ug/L	50	42.8	86	72-119	
1,1-Dichloroethene	ug/L	50	47.0	94	72-123	
1,1-Dichloropropene	ug/L	50	48.7	97	77-125	
1,2,3-Trichlorobenzene	ug/L	50	48.5	97	74-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2147142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	45.6	91	82-121	
1,2,4-Trichlorobenzene	ug/L	50	50.6	101	70-125	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	76-118	
1,2-Dibromoethane (EDB)	ug/L	50	47.9	96	80-120	
1,2-Dichlorobenzene	ug/L	50	46.3	93	77-117	
1,2-Dichloroethane	ug/L	50	41.8	84	69-122	
1,2-Dichloropropane	ug/L	50	44.1	88	75-124	
1,3,5-Trimethylbenzene	ug/L	50	50.7	101	75-117	
1,3-Dichlorobenzene	ug/L	50	47.2	94	76-116	
1,3-Dichloropropane	ug/L	50	47.6	95	82-118	
1,4-Dichlorobenzene	ug/L	50	44.6	89	74-115	
2,2-Dichloropropane	ug/L	50	46.5	93	51-133	
2-Butanone (MEK)	ug/L	250	226	90	72-147	
2-Chlorotoluene	ug/L	50	47.1	94	73-113	
2-Hexanone	ug/L	250	199	80	71-132	
4-Chlorotoluene	ug/L	50	48.4	97	78-118	
4-Methyl-2-pentanone (MIBK)	ug/L	250	206	83	89-128	L2
Acetone	ug/L	250	166	67	46-170	
Acrolein	ug/L	1000	900	90	13-200	
Acrylonitrile	ug/L	200	141	71	65-130	
Benzene	ug/L	50	45.9	92	78-117	
Bromobenzene	ug/L	50	44.0	88	66-126	
Bromochloromethane	ug/L	50	36.2	72	76-120	L2
Bromodichloromethane	ug/L	50	45.1	90	76-120	
Bromoform	ug/L	50	44.6	89	70-124	
Bromomethane	ug/L	50	39.9	80	29-181	
Carbon disulfide	ug/L	50	43.7	87	66-123	
Carbon tetrachloride	ug/L	50	48.1	96	73-132	
Chlorobenzene	ug/L	50	47.1	94	79-112	
Chloroethane	ug/L	50	50.4	101	59-156	
Chloroform	ug/L	50	44.0	88	76-118	
Chloromethane	ug/L	50	44.9	90	45-142	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	75-117	
cis-1,3-Dichloropropene	ug/L	50	51.0	102	77-120	
Dibromochloromethane	ug/L	50	47.3	95	78-123	
Dibromomethane	ug/L	50	45.7	91	78-122	
Dichlorodifluoromethane	ug/L	50	55.1	110	41-168	
Ethyl methacrylate	ug/L	200	205	103	75-128	
Ethylbenzene	ug/L	50	51.7	103	80-118	
Hexachloro-1,3-butadiene	ug/L	50	52.3	105	73-125	
Iodomethane	ug/L	100	99.0	99	35-174	
Isopropylbenzene (Cumene)	ug/L	50	51.7	103	81-117	
Methyl-tert-butyl ether	ug/L	50	47.0	94	71-124	
Methylene Chloride	ug/L	50	46.9	94	59-136	
n-Butylbenzene	ug/L	50	46.6	93	72-118	
n-Hexane	ug/L	50	51.6	103	60-128	
n-Propylbenzene	ug/L	50	49.3	99	75-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2147142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	44.0	88	67-126	
p-Isopropyltoluene	ug/L	50	49.2	98	75-115	
sec-Butylbenzene	ug/L	50	48.7	97	76-120	
Styrene	ug/L	50	48.5	97	74-121	
tert-Butylbenzene	ug/L	50	38.4	77	55-109	
Tetrachloroethene	ug/L	50	50.4	101	76-116	
Toluene	ug/L	50	46.8	94	77-115	
trans-1,2-Dichloroethene	ug/L	50	46.0	92	75-121	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	77-121	
trans-1,4-Dichloro-2-butene	ug/L	200	150	75	42-128	
Trichloroethene	ug/L	50	48.0	96	76-120	
Trichlorofluoromethane	ug/L	50	51.3	103	81-141	
Vinyl acetate	ug/L	200	180	90	67-131	
Vinyl chloride	ug/L	50	49.4	99	64-155	
Xylene (Total)	ug/L	150	153	102	78-118	
4-Bromofluorobenzene (S)	%.			101	85-111	
Dibromofluoromethane (S)	%.			93	89-116	
Toluene-d8 (S)	%.			100	87-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147143 2147144

Parameter	Units	50206664007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	48.9	46.7	98	93	48-138	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	50.4	49.3	101	99	50-141	2	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	47.1	46.5	94	93	52-131	1	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.1	49.4	102	99	53-131	3	20	
1,1-Dichloroethane	ug/L	ND	50	50	44.5	43.1	89	86	51-130	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	47.5	46.7	95	93	51-138	2	20	
1,1-Dichloropropene	ug/L	ND	50	50	51.2	49.2	102	98	47-143	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	47.7	49.1	95	98	26-143	3	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	49.3	49.6	99	99	60-136	1	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	48.4	49.2	97	98	20-142	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	48.3	47.6	97	95	19-148	2	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.6	50.1	103	100	57-134	3	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	46.4	46.6	93	93	30-142	0	20	
1,2-Dichloroethane	ug/L	ND	50	50	44.9	43.9	90	88	46-139	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	46.8	47.1	94	94	54-135	1	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50.4	50.0	101	100	16-149	1	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	46.3	46.8	93	94	24-142	1	20	
1,3-Dichloropropane	ug/L	ND	50	50	52.1	49.7	104	99	59-134	5	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	44.0	43.8	88	88	24-140	0	20	
2,2-Dichloropropane	ug/L	ND	50	50	45.1	42.8	90	86	24-138	5	20	
2-Butanone (MEK)	ug/L	ND	250	250	266	272	106	109	49-156	2	20	
2-Chlorotoluene	ug/L	ND	50	50	48.0	47.9	96	96	21-143	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147143 2147144

Parameter	Units	50206664007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	250	250	237	231	95	92	53-140	3	20	
4-Chlorotoluene	ug/L	ND	50	50	48.2	47.7	96	95	23-147	1	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	238	232	95	93	50-139	3	20	
Acetone	ug/L	ND	250	250	181	186	71	73	34-160	3	20	
Acrolein	ug/L	ND	1000	1000	805	819	80	82	30-178	2	20	
Acrylonitrile	ug/L	ND	200	200	150	153	75	77	54-136	3	20	
Benzene	ug/L	ND	50	50	48.5	47.5	97	95	50-135	2	20	
Bromobenzene	ug/L	ND	50	50	46.4	45.1	93	90	28-147	3	20	
Bromochloromethane	ug/L	ND	50	50	36.1	33.7	72	67	54-138	7	20	
Bromodichloromethane	ug/L	ND	50	50	47.2	46.4	94	93	50-135	2	20	
Bromoform	ug/L	ND	50	50	47.4	46.9	95	94	43-133	1	20	
Bromomethane	ug/L	ND	50	50	33.3	38.2	66	75	15-170	14	20	
Carbon disulfide	ug/L	ND	50	50	42.2	42.1	84	84	36-139	0	20	
Carbon tetrachloride	ug/L	ND	50	50	47.4	47.0	95	94	43-151	1	20	
Chlorobenzene	ug/L	ND	50	50	48.1	46.8	96	94	39-135	3	20	
Chloroethane	ug/L	ND	50	50	45.3	45.7	91	91	42-165	1	20	
Chloroform	ug/L	ND	50	50	46.9	45.7	94	91	52-134	2	20	
Chloromethane	ug/L	ND	50	50	27.4	37.3	53	72	33-146	31	20	R1
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.6	50.6	103	101	48-133	2	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.3	49.3	103	99	46-131	4	20	
Dibromochloromethane	ug/L	ND	50	50	49.3	47.5	99	95	50-139	4	20	
Dibromomethane	ug/L	ND	50	50	49.5	49.0	99	98	55-137	1	20	
Dichlorodifluoromethane	ug/L	ND	50	50	53.7	52.9	107	106	29-178	2	20	
Ethyl methacrylate	ug/L	ND	200	200	236	231	118	115	58-136	3	20	
Ethylbenzene	ug/L	ND	50	50	53.2	51.6	106	103	31-147	3	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	50.3	49.6	101	99	10-158	1	20	
Iodomethane	ug/L	ND	100	100	88.0	93.2	88	93	17-173	6	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	51.4	49.9	103	100	25-151	3	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	48.9	48.7	98	97	51-142	0	20	
Methylene Chloride	ug/L	ND	50	50	43.3	43.3	87	87	41-142	0	20	
n-Butylbenzene	ug/L	ND	50	50	45.1	44.2	90	88	10-153	2	20	
n-Hexane	ug/L	ND	50	50	51.8	50.6	104	101	35-141	2	20	
n-Propylbenzene	ug/L	ND	50	50	48.6	47.7	97	95	16-153	2	20	
Naphthalene	ug/L	ND	50	50	47.9	49.1	96	98	40-135	2	20	
p-Isopropyltoluene	ug/L	ND	50	50	48.4	48.0	97	96	11-150	1	20	
sec-Butylbenzene	ug/L	ND	50	50	49.1	48.3	98	97	11-157	2	20	
Styrene	ug/L	ND	50	50	49.7	47.8	99	96	28-142	4	20	
tert-Butylbenzene	ug/L	ND	50	50	38.5	38.1	77	76	11-132	1	20	
Tetrachloroethene	ug/L	ND	50	50	50.1	48.3	100	97	34-140	4	20	
Toluene	ug/L	ND	50	50	49.9	47.6	98	94	43-134	5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	48.0	47.3	96	95	51-135	1	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	50.1	47.4	100	95	44-133	6	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	151	142	75	71	12-138	6	20	
Trichloroethene	ug/L	ND	50	50	48.3	47.7	97	95	40-141	1	20	
Trichlorofluoromethane	ug/L	ND	50	50	50.1	48.3	100	97	56-162	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147143 2147144

Parameter	Units	50206664007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl acetate	ug/L	ND	200	200	146	145	73	72	11-134	1	20	
Vinyl chloride	ug/L	ND	50	50	45.0	46.5	90	93	46-164	3	20	
Xylene (Total)	ug/L	ND	150	150	156	150	104	100	29-145	4	20	
4-Bromofluorobenzene (S)	%.						105	102	85-111			
Dibromofluoromethane (S)	%.						94	94	89-116			
Toluene-d8 (S)	%.						103	99	87-110			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 465161 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206664010, 50206664011

METHOD BLANK: 2147124 | Matrix: Solid
Associated Lab Samples: 50206664010, 50206664011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,1-Dichloroethane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,1-Dichloroethene	ug/kg	ND	5.0	10/06/18 00:48	M5
1,1-Dichloropropene	ug/kg	ND	5.0	10/06/18 00:48	M5
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/06/18 00:48	M5
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
1,2-Dichloroethane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,2-Dichloropropane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
1,3-Dichloropropane	ug/kg	ND	5.0	10/06/18 00:48	M5
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
2,2-Dichloropropane	ug/kg	ND	5.0	10/06/18 00:48	M5
2-Butanone (MEK)	ug/kg	ND	25.0	10/06/18 00:48	M5
2-Chlorotoluene	ug/kg	ND	5.0	10/06/18 00:48	M5
2-Hexanone	ug/kg	ND	100	10/06/18 00:48	M5
4-Chlorotoluene	ug/kg	ND	5.0	10/06/18 00:48	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/06/18 00:48	M5
Acetone	ug/kg	ND	100	10/06/18 00:48	M5
Acrolein	ug/kg	ND	100	10/06/18 00:48	M5
Acrylonitrile	ug/kg	ND	100	10/06/18 00:48	M5
Benzene	ug/kg	ND	5.0	10/06/18 00:48	M5
Bromobenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
Bromochloromethane	ug/kg	ND	5.0	10/06/18 00:48	M5
Bromodichloromethane	ug/kg	ND	5.0	10/06/18 00:48	M5
Bromoform	ug/kg	ND	5.0	10/06/18 00:48	M5
Bromomethane	ug/kg	ND	5.0	10/06/18 00:48	M5
Carbon disulfide	ug/kg	ND	10.0	10/06/18 00:48	M5
Carbon tetrachloride	ug/kg	ND	5.0	10/06/18 00:48	M5
Chlorobenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
Chloroethane	ug/kg	ND	5.0	10/06/18 00:48	M5
Chloroform	ug/kg	ND	5.0	10/06/18 00:48	M5
Chloromethane	ug/kg	ND	5.0	10/06/18 00:48	M5
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/06/18 00:48	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

METHOD BLANK: 2147124 Matrix: Solid
Associated Lab Samples: 50206664010, 50206664011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/06/18 00:48	M5
Dibromochloromethane	ug/kg	ND	5.0	10/06/18 00:48	M5
Dibromomethane	ug/kg	ND	5.0	10/06/18 00:48	M5
Dichlorodifluoromethane	ug/kg	ND	5.0	10/06/18 00:48	M5
Ethyl methacrylate	ug/kg	ND	100	10/06/18 00:48	M5
Ethylbenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/06/18 00:48	M5
Iodomethane	ug/kg	ND	100	10/06/18 00:48	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/06/18 00:48	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/06/18 00:48	M5
Methylene Chloride	ug/kg	ND	20.0	10/06/18 00:48	M5
n-Butylbenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
n-Hexane	ug/kg	ND	5.0	10/06/18 00:48	M5
n-Propylbenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
Naphthalene	ug/kg	ND	5.0	10/06/18 00:48	M5
p-Isopropyltoluene	ug/kg	ND	5.0	10/06/18 00:48	M5
sec-Butylbenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
Styrene	ug/kg	ND	5.0	10/06/18 00:48	M5
tert-Butylbenzene	ug/kg	ND	5.0	10/06/18 00:48	M5
Tetrachloroethene	ug/kg	ND	5.0	10/06/18 00:48	M5
Toluene	ug/kg	ND	5.0	10/06/18 00:48	M5
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/06/18 00:48	M5
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/06/18 00:48	M5
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/06/18 00:48	M5
Trichloroethene	ug/kg	ND	5.0	10/06/18 00:48	M5
Trichlorofluoromethane	ug/kg	ND	5.0	10/06/18 00:48	M5
Vinyl acetate	ug/kg	ND	100	10/06/18 00:48	M5
Vinyl chloride	ug/kg	ND	5.0	10/06/18 00:48	M5
Xylene (Total)	ug/kg	ND	10.0	10/06/18 00:48	M5
4-Bromofluorobenzene (S)	%.	96	57-130	10/06/18 00:48	M5
Dibromofluoromethane (S)	%.	104	80-127	10/06/18 00:48	M5
Toluene-d8 (S)	%.	91	72-136	10/06/18 00:48	M5

LABORATORY CONTROL SAMPLE: 2147125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	47.7	95	80-119	M5
1,1,1-Trichloroethane	ug/kg	50	49.2	98	71-123	M5
1,1,2,2-Tetrachloroethane	ug/kg	50	43.0	86	74-121	M5
1,1,2-Trichloroethane	ug/kg	50	48.1	96	76-115	M5
1,1-Dichloroethane	ug/kg	50	42.6	85	70-117	M5
1,1-Dichloroethene	ug/kg	50	47.9	96	71-125	M5
1,1-Dichloropropene	ug/kg	50	48.1	96	72-122	M5
1,2,3-Trichlorobenzene	ug/kg	50	44.6	89	70-115	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2147125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	47.1	94	80-125	M5
1,2,4-Trichlorobenzene	ug/kg	50	44.5	89	63-119	M5
1,2,4-Trimethylbenzene	ug/kg	50	48.3	97	73-111	M5
1,2-Dibromoethane (EDB)	ug/kg	50	51.0	102	82-120	M5
1,2-Dichlorobenzene	ug/kg	50	45.8	92	79-110	M5
1,2-Dichloroethane	ug/kg	50	43.3	87	69-119	M5
1,2-Dichloropropane	ug/kg	50	47.8	96	76-120	M5
1,3,5-Trimethylbenzene	ug/kg	50	49.1	98	74-108	M5
1,3-Dichlorobenzene	ug/kg	50	45.0	90	74-109	M5
1,3-Dichloropropane	ug/kg	50	49.3	99	84-119	M5
1,4-Dichlorobenzene	ug/kg	50	42.4	85	74-109	M5
2,2-Dichloropropane	ug/kg	50	44.0	88	58-125	M5
2-Butanone (MEK)	ug/kg	250	252	101	57-183	M5
2-Chlorotoluene	ug/kg	50	48.4	97	74-107	M5
2-Hexanone	ug/kg	250	217	87	56-156	M5
4-Chlorotoluene	ug/kg	50	47.4	95	76-113	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	250	220	88	67-128	M5
Acetone	ug/kg	250	212	85	39-199	M5
Acrolein	ug/kg	1000	1130	113	24-200	M5
Acrylonitrile	ug/kg	200	147	74	70-124	M5
Benzene	ug/kg	50	47.8	96	77-117	M5
Bromobenzene	ug/kg	50	43.4	87	74-110	M5
Bromochloromethane	ug/kg	50	38.3	77	68-122	M5
Bromodichloromethane	ug/kg	50	44.9	90	76-115	M5
Bromoform	ug/kg	50	46.4	93	69-125	M5
Bromomethane	ug/kg	50	49.8	100	30-174	M5
Carbon disulfide	ug/kg	50	45.5	91	64-122	M5
Carbon tetrachloride	ug/kg	50	48.1	96	70-126	M5
Chlorobenzene	ug/kg	50	46.1	92	77-111	M5
Chloroethane	ug/kg	50	45.4	91	50-149	M5
Chloroform	ug/kg	50	44.1	88	74-114	M5
Chloromethane	ug/kg	50	37.1	74	51-127	M5
cis-1,2-Dichloroethene	ug/kg	50	49.6	99	74-118	M5
cis-1,3-Dichloropropene	ug/kg	50	50.7	101	77-119	M5
Dibromochloromethane	ug/kg	50	49.4	99	82-120	M5
Dibromomethane	ug/kg	50	45.4	91	79-118	M5
Dichlorodifluoromethane	ug/kg	50	52.0	104	39-160	M5
Ethyl methacrylate	ug/kg	200	234	117	75-125	M5
Ethylbenzene	ug/kg	50	51.5	103	73-114	M5
Hexachloro-1,3-butadiene	ug/kg	50	49.8	100	66-119	M5
Iodomethane	ug/kg	100	107	107	72-140	M5
Isopropylbenzene (Cumene)	ug/kg	50	50.1	100	78-113	M5
Methyl-tert-butyl ether	ug/kg	50	51.6	103	75-119	M5
Methylene Chloride	ug/kg	50	53.9	108	45-153	M5
n-Butylbenzene	ug/kg	50	42.6	85	66-111	M5
n-Hexane	ug/kg	50	45.0	90	57-117	M5
n-Propylbenzene	ug/kg	50	48.2	96	74-112	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2147125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	52.3	105	70-115	M5
p-Isopropyltoluene	ug/kg	50	48.1	96	72-108	M5
sec-Butylbenzene	ug/kg	50	48.2	96	75-113	M5
Styrene	ug/kg	50	46.5	93	73-109	M5
tert-Butylbenzene	ug/kg	50	40.0	80	56-105	M5
Tetrachloroethene	ug/kg	50	48.1	96	72-117	M5
Toluene	ug/kg	50	47.0	94	77-111	M5
trans-1,2-Dichloroethene	ug/kg	50	45.5	91	73-121	M5
trans-1,3-Dichloropropene	ug/kg	50	49.2	98	76-121	M5
trans-1,4-Dichloro-2-butene	ug/kg	200	186	93	57-123	M5
Trichloroethene	ug/kg	50	49.8	100	73-119	M5
Trichlorofluoromethane	ug/kg	50	46.4	93	72-147	M5
Vinyl acetate	ug/kg	200	188	94	59-139	M5
Vinyl chloride	ug/kg	50	48.6	97	57-160	M5
Xylene (Total)	ug/kg	150	153	102	74-111	M5
4-Bromofluorobenzene (S)	%.			101	57-130	M5
Dibromofluoromethane (S)	%.			92	80-127	M5
Toluene-d8 (S)	%.			101	72-136	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 465165
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206664012

METHOD BLANK: 2147147
Matrix: Solid
Associated Lab Samples: 50206664012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,1-Dichloroethane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,1-Dichloroethene	ug/kg	ND	5.0	10/06/18 02:23	M5
1,1-Dichloropropene	ug/kg	ND	5.0	10/06/18 02:23	M5
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/06/18 02:23	M5
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
1,2-Dichloroethane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,2-Dichloropropane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
1,3-Dichloropropane	ug/kg	ND	5.0	10/06/18 02:23	M5
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
2,2-Dichloropropane	ug/kg	ND	5.0	10/06/18 02:23	M5
2-Butanone (MEK)	ug/kg	ND	25.0	10/06/18 02:23	M5
2-Chlorotoluene	ug/kg	ND	5.0	10/06/18 02:23	M5
2-Hexanone	ug/kg	ND	100	10/06/18 02:23	M5
4-Chlorotoluene	ug/kg	ND	5.0	10/06/18 02:23	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/06/18 02:23	M5
Acetone	ug/kg	ND	100	10/06/18 02:23	M5
Acrolein	ug/kg	ND	100	10/06/18 02:23	M5
Acrylonitrile	ug/kg	ND	100	10/06/18 02:23	M5
Benzene	ug/kg	ND	5.0	10/06/18 02:23	M5
Bromobenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
Bromochloromethane	ug/kg	ND	5.0	10/06/18 02:23	M5
Bromodichloromethane	ug/kg	ND	5.0	10/06/18 02:23	M5
Bromoform	ug/kg	ND	5.0	10/06/18 02:23	M5
Bromomethane	ug/kg	ND	5.0	10/06/18 02:23	M5
Carbon disulfide	ug/kg	ND	10.0	10/06/18 02:23	M5
Carbon tetrachloride	ug/kg	ND	5.0	10/06/18 02:23	M5
Chlorobenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
Chloroethane	ug/kg	ND	5.0	10/06/18 02:23	M5
Chloroform	ug/kg	ND	5.0	10/06/18 02:23	M5
Chloromethane	ug/kg	ND	5.0	10/06/18 02:23	M5
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/06/18 02:23	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

METHOD BLANK: 2147147 Matrix: Solid
Associated Lab Samples: 50206664012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/06/18 02:23	M5
Dibromochloromethane	ug/kg	ND	5.0	10/06/18 02:23	M5
Dibromomethane	ug/kg	ND	5.0	10/06/18 02:23	M5
Dichlorodifluoromethane	ug/kg	ND	5.0	10/06/18 02:23	M5
Ethyl methacrylate	ug/kg	ND	100	10/06/18 02:23	M5
Ethylbenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/06/18 02:23	M5
Iodomethane	ug/kg	ND	100	10/06/18 02:23	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/06/18 02:23	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/06/18 02:23	M5
Methylene Chloride	ug/kg	ND	20.0	10/06/18 02:23	M5
n-Butylbenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
n-Hexane	ug/kg	ND	5.0	10/06/18 02:23	M5
n-Propylbenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
Naphthalene	ug/kg	ND	5.0	10/06/18 02:23	M5
p-Isopropyltoluene	ug/kg	ND	5.0	10/06/18 02:23	M5
sec-Butylbenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
Styrene	ug/kg	ND	5.0	10/06/18 02:23	M5
tert-Butylbenzene	ug/kg	ND	5.0	10/06/18 02:23	M5
Tetrachloroethene	ug/kg	ND	5.0	10/06/18 02:23	M5
Toluene	ug/kg	ND	5.0	10/06/18 02:23	M5
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/06/18 02:23	M5
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/06/18 02:23	M5
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/06/18 02:23	M5
Trichloroethene	ug/kg	ND	5.0	10/06/18 02:23	M5
Trichlorofluoromethane	ug/kg	ND	5.0	10/06/18 02:23	M5
Vinyl acetate	ug/kg	ND	100	10/06/18 02:23	M5
Vinyl chloride	ug/kg	ND	5.0	10/06/18 02:23	M5
Xylene (Total)	ug/kg	ND	10.0	10/06/18 02:23	M5
4-Bromofluorobenzene (S)	%.	91	57-130	10/06/18 02:23	M5
Dibromofluoromethane (S)	%.	105	80-127	10/06/18 02:23	M5
Toluene-d8 (S)	%.	89	72-136	10/06/18 02:23	M5

LABORATORY CONTROL SAMPLE: 2147148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	49.4	99	80-119	M5
1,1,1-Trichloroethane	ug/kg	50	49.4	99	71-123	M5
1,1,2,2-Tetrachloroethane	ug/kg	50	45.3	91	74-121	M5
1,1,2-Trichloroethane	ug/kg	50	47.6	95	76-115	M5
1,1-Dichloroethane	ug/kg	50	42.2	84	70-117	M5
1,1-Dichloroethene	ug/kg	50	46.6	93	71-125	M5
1,1-Dichloropropene	ug/kg	50	45.0	90	72-122	M5
1,2,3-Trichlorobenzene	ug/kg	50	45.6	91	70-115	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2147148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	49.9	100	80-125	M5
1,2,4-Trichlorobenzene	ug/kg	50	45.0	90	63-119	M5
1,2,4-Trimethylbenzene	ug/kg	50	44.3	89	73-111	M5
1,2-Dibromoethane (EDB)	ug/kg	50	50.2	100	82-120	M5
1,2-Dichlorobenzene	ug/kg	50	45.4	91	79-110	M5
1,2-Dichloroethane	ug/kg	50	44.3	89	69-119	M5
1,2-Dichloropropane	ug/kg	50	45.0	90	76-120	M5
1,3,5-Trimethylbenzene	ug/kg	50	46.8	94	74-108	M5
1,3-Dichlorobenzene	ug/kg	50	44.1	88	74-109	M5
1,3-Dichloropropane	ug/kg	50	47.9	96	84-119	M5
1,4-Dichlorobenzene	ug/kg	50	41.8	84	74-109	M5
2,2-Dichloropropane	ug/kg	50	44.4	89	58-125	M5
2-Butanone (MEK)	ug/kg	250	260	104	57-183	M5
2-Chlorotoluene	ug/kg	50	43.3	87	74-107	M5
2-Hexanone	ug/kg	250	259	104	56-156	M5
4-Chlorotoluene	ug/kg	50	45.2	90	76-113	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	250	253	101	67-128	M5
Acetone	ug/kg	250	212	85	39-199	M5
Acrolein	ug/kg	1000	1100	110	24-200	M5
Acrylonitrile	ug/kg	200	171	86	70-124	M5
Benzene	ug/kg	50	43.8	88	77-117	M5
Bromobenzene	ug/kg	50	42.9	86	74-110	M5
Bromochloromethane	ug/kg	50	37.6	75	68-122	M5
Bromodichloromethane	ug/kg	50	45.1	90	76-115	M5
Bromoform	ug/kg	50	48.4	97	69-125	M5
Bromomethane	ug/kg	50	43.9	88	30-174	M5
Carbon disulfide	ug/kg	50	42.1	84	64-122	M5
Carbon tetrachloride	ug/kg	50	49.6	99	70-126	M5
Chlorobenzene	ug/kg	50	45.4	91	77-111	M5
Chloroethane	ug/kg	50	52.4	105	50-149	M5
Chloroform	ug/kg	50	44.1	88	74-114	M5
Chloromethane	ug/kg	50	44.4	89	51-127	M5
cis-1,2-Dichloroethene	ug/kg	50	47.6	95	74-118	M5
cis-1,3-Dichloropropene	ug/kg	50	47.2	94	77-119	M5
Dibromochloromethane	ug/kg	50	50.1	100	82-120	M5
Dibromomethane	ug/kg	50	47.5	95	79-118	M5
Dichlorodifluoromethane	ug/kg	50	53.5	107	39-160	M5
Ethyl methacrylate	ug/kg	200	215	107	75-125	M5
Ethylbenzene	ug/kg	50	49.3	99	73-114	M5
Hexachloro-1,3-butadiene	ug/kg	50	47.8	96	66-119	M5
Iodomethane	ug/kg	100	98.8J	99	72-140	M5
Isopropylbenzene (Cumene)	ug/kg	50	49.0	98	78-113	M5
Methyl-tert-butyl ether	ug/kg	50	48.7	97	75-119	M5
Methylene Chloride	ug/kg	50	48.3	97	45-153	M5
n-Butylbenzene	ug/kg	50	39.9	80	66-111	M5
n-Hexane	ug/kg	50	43.7	87	57-117	M5
n-Propylbenzene	ug/kg	50	43.4	87	74-112	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2147148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	47.6	95	70-115	M5
p-Isopropyltoluene	ug/kg	50	45.2	90	72-108	M5
sec-Butylbenzene	ug/kg	50	45.2	90	75-113	M5
Styrene	ug/kg	50	47.0	94	73-109	M5
tert-Butylbenzene	ug/kg	50	35.7	71	56-105	M5
Tetrachloroethene	ug/kg	50	47.8	96	72-117	M5
Toluene	ug/kg	50	43.6	87	77-111	M5
trans-1,2-Dichloroethene	ug/kg	50	45.6	91	73-121	M5
trans-1,3-Dichloropropene	ug/kg	50	46.7	93	76-121	M5
trans-1,4-Dichloro-2-butene	ug/kg	200	179	89	57-123	M5
Trichloroethene	ug/kg	50	44.9	90	73-119	M5
Trichlorofluoromethane	ug/kg	50	52.2	104	72-147	M5
Vinyl acetate	ug/kg	200	196	98	59-139	M5
Vinyl chloride	ug/kg	50	50.1	100	57-160	M5
Xylene (Total)	ug/kg	150	146	97	74-111	M5
4-Bromofluorobenzene (S)	%.			100	57-130	M5
Dibromofluoromethane (S)	%.			96	80-127	M5
Toluene-d8 (S)	%.			97	72-136	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 465361 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206664013, 50206664014, 50206664015, 50206664016, 50206664017

METHOD BLANK: 2148156 Matrix: Solid
Associated Lab Samples: 50206664013, 50206664014, 50206664015, 50206664016, 50206664017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,1-Dichloroethane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,1-Dichloroethene	ug/kg	ND	5.0	10/08/18 12:44	M5
1,1-Dichloropropene	ug/kg	ND	5.0	10/08/18 12:44	M5
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/08/18 12:44	M5
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
1,2-Dichloroethane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,2-Dichloropropane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
1,3-Dichloropropane	ug/kg	ND	5.0	10/08/18 12:44	M5
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
2,2-Dichloropropane	ug/kg	ND	5.0	10/08/18 12:44	M5
2-Butanone (MEK)	ug/kg	ND	25.0	10/08/18 12:44	M5
2-Chlorotoluene	ug/kg	ND	5.0	10/08/18 12:44	M5
2-Hexanone	ug/kg	ND	100	10/08/18 12:44	M5
4-Chlorotoluene	ug/kg	ND	5.0	10/08/18 12:44	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/08/18 12:44	M5
Acetone	ug/kg	ND	100	10/08/18 12:44	M5
Acrolein	ug/kg	ND	100	10/08/18 12:44	M5
Acrylonitrile	ug/kg	ND	100	10/08/18 12:44	M5
Benzene	ug/kg	ND	5.0	10/08/18 12:44	M5
Bromobenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
Bromochloromethane	ug/kg	ND	5.0	10/08/18 12:44	M5
Bromodichloromethane	ug/kg	ND	5.0	10/08/18 12:44	M5
Bromoform	ug/kg	ND	5.0	10/08/18 12:44	M5
Bromomethane	ug/kg	ND	5.0	10/08/18 12:44	M5
Carbon disulfide	ug/kg	ND	10.0	10/08/18 12:44	M5
Carbon tetrachloride	ug/kg	ND	5.0	10/08/18 12:44	M5
Chlorobenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
Chloroethane	ug/kg	ND	5.0	10/08/18 12:44	M5
Chloroform	ug/kg	ND	5.0	10/08/18 12:44	M5
Chloromethane	ug/kg	ND	5.0	10/08/18 12:44	M5
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/08/18 12:44	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

METHOD BLANK: 2148156 Matrix: Solid
Associated Lab Samples: 50206664013, 50206664014, 50206664015, 50206664016, 50206664017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/08/18 12:44	M5
Dibromochloromethane	ug/kg	ND	5.0	10/08/18 12:44	M5
Dibromomethane	ug/kg	ND	5.0	10/08/18 12:44	M5
Dichlorodifluoromethane	ug/kg	ND	5.0	10/08/18 12:44	M5
Ethyl methacrylate	ug/kg	ND	100	10/08/18 12:44	M5
Ethylbenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/08/18 12:44	M5
Iodomethane	ug/kg	ND	100	10/08/18 12:44	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/08/18 12:44	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/08/18 12:44	M5
Methylene Chloride	ug/kg	ND	20.0	10/08/18 12:44	M5
n-Butylbenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
n-Hexane	ug/kg	ND	5.0	10/08/18 12:44	M5
n-Propylbenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
Naphthalene	ug/kg	ND	5.0	10/08/18 12:44	M5
p-Isopropyltoluene	ug/kg	ND	5.0	10/08/18 12:44	M5
sec-Butylbenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
Styrene	ug/kg	ND	5.0	10/08/18 12:44	M5
tert-Butylbenzene	ug/kg	ND	5.0	10/08/18 12:44	M5
Tetrachloroethene	ug/kg	ND	5.0	10/08/18 12:44	M5
Toluene	ug/kg	ND	5.0	10/08/18 12:44	M5
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/08/18 12:44	M5
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/08/18 12:44	M5
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/08/18 12:44	M5
Trichloroethene	ug/kg	ND	5.0	10/08/18 12:44	M5
Trichlorofluoromethane	ug/kg	ND	5.0	10/08/18 12:44	M5
Vinyl acetate	ug/kg	ND	100	10/08/18 12:44	M5
Vinyl chloride	ug/kg	ND	5.0	10/08/18 12:44	M5
Xylene (Total)	ug/kg	ND	10.0	10/08/18 12:44	M5
4-Bromofluorobenzene (S)	%.	93	57-130	10/08/18 12:44	M5
Dibromofluoromethane (S)	%.	108	80-127	10/08/18 12:44	M5
Toluene-d8 (S)	%.	90	72-136	10/08/18 12:44	M5

LABORATORY CONTROL SAMPLE: 2148157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	48.2	96	80-119	M5
1,1,1-Trichloroethane	ug/kg	50	48.3	97	71-123	M5
1,1,2,2-Tetrachloroethane	ug/kg	50	39.4	79	74-121	M5
1,1,2-Trichloroethane	ug/kg	50	45.1	90	76-115	M5
1,1-Dichloroethane	ug/kg	50	40.1	80	70-117	M5
1,1-Dichloroethene	ug/kg	50	47.4	95	71-125	M5
1,1-Dichloropropene	ug/kg	50	44.9	90	72-122	M5
1,2,3-Trichlorobenzene	ug/kg	50	49.9	100	70-115	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2148157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	45.0	90	80-125	M5
1,2,4-Trichlorobenzene	ug/kg	50	51.5	103	63-119	M5
1,2,4-Trimethylbenzene	ug/kg	50	47.0	94	73-111	M5
1,2-Dibromoethane (EDB)	ug/kg	50	50.8	102	82-120	M5
1,2-Dichlorobenzene	ug/kg	50	46.1	92	79-110	M5
1,2-Dichloroethane	ug/kg	50	44.1	88	69-119	M5
1,2-Dichloropropane	ug/kg	50	45.3	91	76-120	M5
1,3,5-Trimethylbenzene	ug/kg	50	46.2	92	74-108	M5
1,3-Dichlorobenzene	ug/kg	50	47.0	94	74-109	M5
1,3-Dichloropropane	ug/kg	50	46.1	92	84-119	M5
1,4-Dichlorobenzene	ug/kg	50	44.5	89	74-109	M5
2,2-Dichloropropane	ug/kg	50	45.6	91	58-125	M5
2-Butanone (MEK)	ug/kg	250	259	104	57-183	M5
2-Chlorotoluene	ug/kg	50	44.7	89	74-107	M5
2-Hexanone	ug/kg	250	222	89	56-156	M5
4-Chlorotoluene	ug/kg	50	47.3	95	76-113	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	250	215	86	67-128	M5
Acetone	ug/kg	250	287	115	39-199	M5
Acrolein	ug/kg	1000	1210	121	24-200	M5
Acrylonitrile	ug/kg	200	154	77	70-124	M5
Benzene	ug/kg	50	45.0	90	77-117	M5
Bromobenzene	ug/kg	50	42.5	85	74-110	M5
Bromochloromethane	ug/kg	50	38.8	78	68-122	M5
Bromodichloromethane	ug/kg	50	43.8	88	76-115	M5
Bromoform	ug/kg	50	46.2	92	69-125	M5
Bromomethane	ug/kg	50	45.9	92	30-174	M5
Carbon disulfide	ug/kg	50	43.0	86	64-122	M5
Carbon tetrachloride	ug/kg	50	48.0	96	70-126	M5
Chlorobenzene	ug/kg	50	46.4	93	77-111	M5
Chloroethane	ug/kg	50	43.5	87	50-149	M5
Chloroform	ug/kg	50	42.2	84	74-114	M5
Chloromethane	ug/kg	50	35.7	71	51-127	M5
cis-1,2-Dichloroethene	ug/kg	50	47.9	96	74-118	M5
cis-1,3-Dichloropropene	ug/kg	50	46.6	93	77-119	M5
Dibromochloromethane	ug/kg	50	49.6	99	82-120	M5
Dibromomethane	ug/kg	50	46.0	92	79-118	M5
Dichlorodifluoromethane	ug/kg	50	49.2	98	39-160	M5
Ethyl methacrylate	ug/kg	200	206	103	75-125	M5
Ethylbenzene	ug/kg	50	50.4	101	73-114	M5
Hexachloro-1,3-butadiene	ug/kg	50	51.2	102	66-119	M5
Iodomethane	ug/kg	100	116	116	72-140	M5
Isopropylbenzene (Cumene)	ug/kg	50	49.6	99	78-113	M5
Methyl-tert-butyl ether	ug/kg	50	51.1	102	75-119	M5
Methylene Chloride	ug/kg	50	51.1	102	45-153	M5
n-Butylbenzene	ug/kg	50	42.5	85	66-111	M5
n-Hexane	ug/kg	50	42.9	86	57-117	M5
n-Propylbenzene	ug/kg	50	44.5	89	74-112	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2148157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	56.1	112	70-115	M5
p-Isopropyltoluene	ug/kg	50	47.1	94	72-108	M5
sec-Butylbenzene	ug/kg	50	45.4	91	75-113	M5
Styrene	ug/kg	50	47.3	95	73-109	M5
tert-Butylbenzene	ug/kg	50	38.0	76	56-105	M5
Tetrachloroethene	ug/kg	50	49.5	99	72-117	M5
Toluene	ug/kg	50	43.0	86	77-111	M5
trans-1,2-Dichloroethene	ug/kg	50	45.1	90	73-121	M5
trans-1,3-Dichloropropene	ug/kg	50	47.7	95	76-121	M5
trans-1,4-Dichloro-2-butene	ug/kg	200	197	99	57-123	M5
Trichloroethene	ug/kg	50	49.2	98	73-119	M5
Trichlorofluoromethane	ug/kg	50	45.9	92	72-147	M5
Vinyl acetate	ug/kg	200	182	91	59-139	M5
Vinyl chloride	ug/kg	50	45.8	92	57-160	M5
Xylene (Total)	ug/kg	150	152	101	74-111	M5
4-Bromofluorobenzene (S)	%.			100	57-130	M5
Dibromofluoromethane (S)	%.			94	80-127	M5
Toluene-d8 (S)	%.			96	72-136	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 465382 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206664009

METHOD BLANK: 2148223 | Matrix: Solid
Associated Lab Samples: 50206664009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/09/18 00:49	
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/09/18 00:49	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/09/18 00:49	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/09/18 00:49	
1,1-Dichloroethane	ug/kg	ND	5.0	10/09/18 00:49	
1,1-Dichloroethene	ug/kg	ND	5.0	10/09/18 00:49	
1,1-Dichloropropene	ug/kg	ND	5.0	10/09/18 00:49	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/09/18 00:49	
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/09/18 00:49	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/09/18 00:49	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/09/18 00:49	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/09/18 00:49	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/09/18 00:49	
1,2-Dichloroethane	ug/kg	ND	5.0	10/09/18 00:49	
1,2-Dichloropropane	ug/kg	ND	5.0	10/09/18 00:49	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/09/18 00:49	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/09/18 00:49	
1,3-Dichloropropane	ug/kg	ND	5.0	10/09/18 00:49	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/09/18 00:49	
2,2-Dichloropropane	ug/kg	ND	5.0	10/09/18 00:49	
2-Butanone (MEK)	ug/kg	ND	25.0	10/09/18 00:49	
2-Chlorotoluene	ug/kg	ND	5.0	10/09/18 00:49	
2-Hexanone	ug/kg	ND	100	10/09/18 00:49	
4-Chlorotoluene	ug/kg	ND	5.0	10/09/18 00:49	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/09/18 00:49	
Acetone	ug/kg	ND	100	10/09/18 00:49	
Acrolein	ug/kg	ND	100	10/09/18 00:49	
Acrylonitrile	ug/kg	ND	100	10/09/18 00:49	
Benzene	ug/kg	ND	5.0	10/09/18 00:49	
Bromobenzene	ug/kg	ND	5.0	10/09/18 00:49	
Bromochloromethane	ug/kg	ND	5.0	10/09/18 00:49	
Bromodichloromethane	ug/kg	ND	5.0	10/09/18 00:49	
Bromoform	ug/kg	ND	5.0	10/09/18 00:49	
Bromomethane	ug/kg	ND	5.0	10/09/18 00:49	
Carbon disulfide	ug/kg	ND	10.0	10/09/18 00:49	
Carbon tetrachloride	ug/kg	ND	5.0	10/09/18 00:49	
Chlorobenzene	ug/kg	ND	5.0	10/09/18 00:49	
Chloroethane	ug/kg	ND	5.0	10/09/18 00:49	
Chloroform	ug/kg	ND	5.0	10/09/18 00:49	
Chloromethane	ug/kg	ND	5.0	10/09/18 00:49	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/09/18 00:49	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

METHOD BLANK: 2148223 Matrix: Solid
Associated Lab Samples: 50206664009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/09/18 00:49	
Dibromochloromethane	ug/kg	ND	5.0	10/09/18 00:49	
Dibromomethane	ug/kg	ND	5.0	10/09/18 00:49	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/09/18 00:49	
Ethyl methacrylate	ug/kg	ND	100	10/09/18 00:49	
Ethylbenzene	ug/kg	ND	5.0	10/09/18 00:49	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/09/18 00:49	
Iodomethane	ug/kg	ND	100	10/09/18 00:49	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/09/18 00:49	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/09/18 00:49	
Methylene Chloride	ug/kg	ND	20.0	10/09/18 00:49	
n-Butylbenzene	ug/kg	ND	5.0	10/09/18 00:49	
n-Hexane	ug/kg	ND	5.0	10/09/18 00:49	
n-Propylbenzene	ug/kg	ND	5.0	10/09/18 00:49	
Naphthalene	ug/kg	ND	5.0	10/09/18 00:49	
p-Isopropyltoluene	ug/kg	ND	5.0	10/09/18 00:49	
sec-Butylbenzene	ug/kg	ND	5.0	10/09/18 00:49	
Styrene	ug/kg	ND	5.0	10/09/18 00:49	
tert-Butylbenzene	ug/kg	ND	5.0	10/09/18 00:49	
Tetrachloroethene	ug/kg	ND	5.0	10/09/18 00:49	
Toluene	ug/kg	ND	5.0	10/09/18 00:49	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/09/18 00:49	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/09/18 00:49	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/09/18 00:49	
Trichloroethene	ug/kg	ND	5.0	10/09/18 00:49	
Trichlorofluoromethane	ug/kg	ND	5.0	10/09/18 00:49	
Vinyl acetate	ug/kg	ND	100	10/09/18 00:49	
Vinyl chloride	ug/kg	ND	5.0	10/09/18 00:49	
Xylene (Total)	ug/kg	ND	10.0	10/09/18 00:49	
4-Bromofluorobenzene (S)	%.	92	57-130	10/09/18 00:49	
Dibromofluoromethane (S)	%.	108	80-127	10/09/18 00:49	
Toluene-d8 (S)	%.	88	72-136	10/09/18 00:49	

LABORATORY CONTROL SAMPLE: 2148224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	49.1	98	80-119	
1,1,1-Trichloroethane	ug/kg	50	50.0	100	71-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	39.1	78	74-121	
1,1,2-Trichloroethane	ug/kg	50	45.8	92	76-115	
1,1-Dichloroethane	ug/kg	50	41.4	83	70-117	
1,1-Dichloroethene	ug/kg	50	47.3	95	71-125	
1,1-Dichloropropene	ug/kg	50	45.1	90	72-122	
1,2,3-Trichlorobenzene	ug/kg	50	44.1	88	70-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2148224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	44.8	90	80-125	
1,2,4-Trichlorobenzene	ug/kg	50	41.2	82	63-119	
1,2,4-Trimethylbenzene	ug/kg	50	44.0	88	73-111	
1,2-Dibromoethane (EDB)	ug/kg	50	51.0	102	82-120	
1,2-Dichlorobenzene	ug/kg	50	44.3	89	79-110	
1,2-Dichloroethane	ug/kg	50	45.4	91	69-119	
1,2-Dichloropropane	ug/kg	50	46.2	92	76-120	
1,3,5-Trimethylbenzene	ug/kg	50	44.4	89	74-108	
1,3-Dichlorobenzene	ug/kg	50	42.3	85	74-109	
1,3-Dichloropropane	ug/kg	50	45.9	92	84-119	
1,4-Dichlorobenzene	ug/kg	50	40.1	80	74-109	
2,2-Dichloropropane	ug/kg	50	41.9	84	58-125	
2-Butanone (MEK)	ug/kg	250	243	97	57-183	
2-Chlorotoluene	ug/kg	50	42.6	85	74-107	
2-Hexanone	ug/kg	250	225	90	56-156	
4-Chlorotoluene	ug/kg	50	43.6	87	76-113	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	224	90	67-128	
Acetone	ug/kg	250	240	96	39-199	
Acrolein	ug/kg	1000	1260	126	24-200	
Acrylonitrile	ug/kg	200	157	79	70-124	
Benzene	ug/kg	50	45.4	91	77-117	
Bromobenzene	ug/kg	50	41.2	82	74-110	
Bromochloromethane	ug/kg	50	39.9	80	68-122	
Bromodichloromethane	ug/kg	50	44.8	90	76-115	
Bromoform	ug/kg	50	44.9	90	69-125	
Bromomethane	ug/kg	50	51.9	104	30-174	
Carbon disulfide	ug/kg	50	42.5	85	64-122	
Carbon tetrachloride	ug/kg	50	50.5	101	70-126	
Chlorobenzene	ug/kg	50	44.4	89	77-111	
Chloroethane	ug/kg	50	45.5	91	50-149	
Chloroform	ug/kg	50	44.2	88	74-114	
Chloromethane	ug/kg	50	38.4	77	51-127	
cis-1,2-Dichloroethene	ug/kg	50	47.4	95	74-118	
cis-1,3-Dichloropropene	ug/kg	50	44.1	88	77-119	
Dibromochloromethane	ug/kg	50	49.6	99	82-120	
Dibromomethane	ug/kg	50	46.9	94	79-118	
Dichlorodifluoromethane	ug/kg	50	52.4	105	39-160	
Ethyl methacrylate	ug/kg	200	215	108	75-125	
Ethylbenzene	ug/kg	50	49.9	100	73-114	
Hexachloro-1,3-butadiene	ug/kg	50	47.7	95	66-119	
Iodomethane	ug/kg	100	119	119	72-140	
Isopropylbenzene (Cumene)	ug/kg	50	49.3	99	78-113	
Methyl-tert-butyl ether	ug/kg	50	51.1	102	75-119	
Methylene Chloride	ug/kg	50	51.6	103	45-153	
n-Butylbenzene	ug/kg	50	36.9	74	66-111	
n-Hexane	ug/kg	50	40.4	81	57-117	
n-Propylbenzene	ug/kg	50	41.9	84	74-112	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2148224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	51.7	103	70-115	
p-Isopropyltoluene	ug/kg	50	44.2	88	72-108	
sec-Butylbenzene	ug/kg	50	44.3	89	75-113	
Styrene	ug/kg	50	46.2	92	73-109	
tert-Butylbenzene	ug/kg	50	37.0	74	56-105	
Tetrachloroethene	ug/kg	50	48.9	98	72-117	
Toluene	ug/kg	50	43.1	86	77-111	
trans-1,2-Dichloroethene	ug/kg	50	45.2	90	73-121	
trans-1,3-Dichloropropene	ug/kg	50	44.8	90	76-121	
trans-1,4-Dichloro-2-butene	ug/kg	200	184	92	57-123	
Trichloroethene	ug/kg	50	48.3	97	73-119	
Trichlorofluoromethane	ug/kg	50	48.9	98	72-147	
Vinyl acetate	ug/kg	200	189	95	59-139	
Vinyl chloride	ug/kg	50	48.9	98	57-160	
Xylene (Total)	ug/kg	150	149	100	74-111	
4-Bromofluorobenzene (S)	%.			100	57-130	
Dibromofluoromethane (S)	%.			96	80-127	
Toluene-d8 (S)	%.			96	72-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2148225 2148226

Parameter	Units	50206891007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	103	87	68.8	42.5	67	49	34-148	47	20	R1
1,1,1-Trichloroethane	ug/kg	ND	103	87	82.1	65.4	79	75	51-139	23	20	R1
1,1,2,2-Tetrachloroethane	ug/kg	ND	103	87	60.3	39.4	58	45	22-173	42	20	R1
1,1,2-Trichloroethane	ug/kg	ND	103	87	67.8	48.7	66	56	40-142	33	20	R1
1,1-Dichloroethane	ug/kg	ND	103	87	67.9	55.6	66	64	54-130	20	20	
1,1-Dichloroethene	ug/kg	ND	103	87	82.8	69.0	80	79	52-144	18	20	
1,1-Dichloropropene	ug/kg	ND	103	87	74.1	56.2	72	65	39-141	27	20	R1
1,2,3-Trichlorobenzene	ug/kg	ND	103	87	22.9	20.2	22	23	10-118	12	20	
1,2,3-Trichloropropane	ug/kg	ND	103	87	70.7	45.4	68	52	29-190	44	20	R1
1,2,4-Trichlorobenzene	ug/kg	ND	103	87	26.9	19.6	26	23	10-119	31	20	R1
1,2,4-Trimethylbenzene	ug/kg	ND	103	87	66.7	23.7	65	27	10-163	95	20	R1
1,2-Dibromoethane (EDB)	ug/kg	ND	103	87	57.9	46.9	56	54	40-144	21	20	R1
1,2-Dichlorobenzene	ug/kg	ND	103	87	49.6	24.5	48	28	10-143	68	20	R1
1,2-Dichloroethane	ug/kg	ND	103	87	66.8	49.9	65	57	48-128	29	20	R1
1,2-Dichloropropane	ug/kg	ND	103	87	72.9	54.9	71	63	47-136	28	20	R1
1,3,5-Trimethylbenzene	ug/kg	ND	103	87	71.0	24.5	69	28	10-163	97	20	R1
1,3-Dichlorobenzene	ug/kg	ND	103	87	52.9	23.2	51	27	10-147	78	20	R1
1,3-Dichloropropane	ug/kg	ND	103	87	68.0	49.4	66	57	45-145	32	20	R1
1,4-Dichlorobenzene	ug/kg	ND	103	87	50.1	21.4	48	25	10-143	80	20	R1
2,2-Dichloropropane	ug/kg	ND	103	87	73.9	62.5	71	72	41-139	17	20	
2-Butanone (MEK)	ug/kg	ND	517	436	169	226	33	52	31-200	29	20	R1
2-Chlorotoluene	ug/kg	ND	103	87	66.6	25.9	64	30	10-162	88	20	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2148225 2148226

Parameter	Units	50206891007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/kg	ND	517	436	41.4J	108J	8	25	23-188		20	M1
4-Chlorotoluene	ug/kg	ND	103	87	63.7	24.3	62	28	10-167	90	20	R1
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	517	436	99.0	199	19	46	38-161	67	20	M1,R1
Acetone	ug/kg	ND	517	436	418	358	81	82	16-200	15	20	
Acrolein	ug/kg	ND	2070	1740	1640	1380	79	79	10-200	17	20	
Acrylonitrile	ug/kg	ND	414	348	23.7J	67J	6	19	38-149		20	M1
Benzene	ug/kg	ND	103	87	72.2	54.6	70	63	46-136	28	20	R1
Bromobenzene	ug/kg	ND	103	87	48.5	27.5	47	32	10-137	55	20	R1
Bromochloromethane	ug/kg	ND	103	87	63.3	45.5	61	52	52-129	33	20	R1
Bromodichloromethane	ug/kg	ND	103	87	62.7	47.3	61	54	38-136	28	20	R1
Bromoform	ug/kg	ND	103	87	51.9	38.0	50	44	27-164	31	20	R1
Bromomethane	ug/kg	ND	103	87	11.1	23.2	11	27	29-170	71	20	M1,R1
Carbon disulfide	ug/kg	ND	103	87	64.9	54.6	63	63	37-136	17	20	
Carbon tetrachloride	ug/kg	ND	103	87	79.0	62.4	76	72	46-139	24	20	R1
Chlorobenzene	ug/kg	ND	103	87	64.4	33.4	62	38	22-138	63	20	R1
Chloroethane	ug/kg	ND	103	87	81.4	41.8	79	48	38-162	64	20	R1
Chloroform	ug/kg	ND	103	87	72.4	54.7	70	63	53-129	28	20	R1
Chloromethane	ug/kg	ND	103	87	52.0	47.8	50	55	32-146	8	20	
cis-1,2-Dichloroethene	ug/kg	ND	103	87	75.8	58.5	73	67	52-131	26	20	R1
cis-1,3-Dichloropropene	ug/kg	ND	103	87	33.6	37.8	33	43	38-141	12	20	M1
Dibromochloromethane	ug/kg	ND	103	87	61.2	45.8	59	53	39-143	29	20	R1
Dibromomethane	ug/kg	ND	103	87	78.4	54.9	76	63	47-135	35	20	R1
Dichlorodifluoromethane	ug/kg	ND	103	87	91.6	81.7	89	94	20-178	11	20	
Ethyl methacrylate	ug/kg	ND	414	348	ND	ND	0	0	10-161		20	M1
Ethylbenzene	ug/kg	ND	103	87	72.6	35.1	70	40	20-142	70	20	R1
Hexachloro-1,3-butadiene	ug/kg	ND	103	87	49.7	17.8	48	21	10-147	94	20	R1
Iodomethane	ug/kg	ND	207	174	4.6J	66J	2	38	37-163		20	M1
Isopropylbenzene (Cumene)	ug/kg	ND	103	87	69.7	29.4	67	34	14-149	81	20	R1
Methyl-tert-butyl ether	ug/kg	ND	103	87	82.3	69.9	80	80	64-135	16	20	
Methylene Chloride	ug/kg	ND	103	87	83.6	57.9	81	66	39-146	36	20	R1
n-Butylbenzene	ug/kg	ND	103	87	49.3	14.9	48	17	10-150	107	20	R1
n-Hexane	ug/kg	ND	103	87	76.6	66.1	74	76	19-145	15	20	
n-Propylbenzene	ug/kg	ND	103	87	71.0	23.7	69	27	10-171	100	20	R1
Naphthalene	ug/kg	ND	103	87	24.4	27.3	24	31	10-128	11	20	
p-Isopropyltoluene	ug/kg	ND	103	87	64.9	19.5	63	22	10-159	107	20	R1
sec-Butylbenzene	ug/kg	ND	103	87	72.1	22.1	70	25	10-175	106	20	R1
Styrene	ug/kg	ND	103	87	45.6	26.6	44	31	10-136	53	20	R1
tert-Butylbenzene	ug/kg	ND	103	87	60.4	20.8	58	24	10-162	98	20	R1
Tetrachloroethene	ug/kg	ND	103	87	79.0	40.0	76	46	24-151	65	20	R1
Toluene	ug/kg	ND	103	87	67.8	41.2	66	47	36-140	49	20	R1
trans-1,2-Dichloroethene	ug/kg	ND	103	87	75.1	56.3	73	65	53-135	29	20	R1
trans-1,3-Dichloropropene	ug/kg	ND	103	87	40.2	38.0	39	44	31-141	6	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	414	348	28.9J	91.8J	7	26	10-136		20	M1
Trichloroethene	ug/kg	ND	103	87	76.0	52.4	73	60	31-149	37	20	R1
Trichlorofluoromethane	ug/kg	ND	103	87	84.8	72.8	82	84	51-170	15	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2148225 2148226

Parameter	Units	50206891007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl acetate	ug/kg	ND	414	348	ND	43.4J	0	12	10-138		20	M1
Vinyl chloride	ug/kg	ND	103	87	84.0	69.7	81	80	46-171	19	20	
Xylene (Total)	ug/kg	ND	310	261	216	100	70	38	16-142	73	20	RS
4-Bromofluorobenzene (S)	%.						91	100	57-130			
Dibromofluoromethane (S)	%.						98	96	80-127			
Toluene-d8 (S)	%.						101	96	72-136			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 464485 Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50206664001, 50206664002, 50206664004, 50206664005, 50206664006, 50206664007, 50206664008

METHOD BLANK: 2144011 Matrix: Water
Associated Lab Samples: 50206664001, 50206664002, 50206664004, 50206664005, 50206664006, 50206664007, 50206664008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	10/03/18 16:23	N2
2-Methylnaphthalene	ug/L	ND	1.0	10/03/18 16:23	
Acenaphthene	ug/L	ND	1.0	10/03/18 16:23	
Acenaphthylene	ug/L	ND	1.0	10/03/18 16:23	
Anthracene	ug/L	ND	0.10	10/03/18 16:23	
Benzo(a)anthracene	ug/L	ND	0.10	10/03/18 16:23	
Benzo(a)pyrene	ug/L	ND	0.10	10/03/18 16:23	
Benzo(b)fluoranthene	ug/L	ND	0.10	10/03/18 16:23	
Benzo(g,h,i)perylene	ug/L	ND	0.10	10/03/18 16:23	
Benzo(k)fluoranthene	ug/L	ND	0.10	10/03/18 16:23	
Chrysene	ug/L	ND	0.50	10/03/18 16:23	
Dibenz(a,h)anthracene	ug/L	ND	0.10	10/03/18 16:23	
Fluoranthene	ug/L	ND	1.0	10/03/18 16:23	
Fluorene	ug/L	ND	1.0	10/03/18 16:23	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	10/03/18 16:23	
Naphthalene	ug/L	ND	1.0	10/03/18 16:23	
Phenanthrene	ug/L	ND	1.0	10/03/18 16:23	
Pyrene	ug/L	ND	1.0	10/03/18 16:23	
2-Fluorobiphenyl (S)	%.	34	10-108	10/03/18 16:23	
p-Terphenyl-d14 (S)	%.	51	10-167	10/03/18 16:23	

LABORATORY CONTROL SAMPLE: 2144012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.4	44	23-93	N2
2-Methylnaphthalene	ug/L	10	4.2	42	23-102	
Acenaphthene	ug/L	10	4.6	46	33-106	
Acenaphthylene	ug/L	10	5.8	58	35-119	
Anthracene	ug/L	10	4.7	47	28-124	
Benzo(a)anthracene	ug/L	10	6.4	64	58-140	
Benzo(a)pyrene	ug/L	10	6.5	65	53-118	
Benzo(b)fluoranthene	ug/L	10	6.0	60	55-133	
Benzo(g,h,i)perylene	ug/L	10	6.6	66	46-105	
Benzo(k)fluoranthene	ug/L	10	7.2	72	49-115	
Chrysene	ug/L	10	5.6	56	50-125	
Dibenz(a,h)anthracene	ug/L	10	6.6	66	48-112	
Fluoranthene	ug/L	10	6.3	63	53-128	
Fluorene	ug/L	10	5.2	52	39-123	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.5	65	49-109	
Naphthalene	ug/L	10	4.4	44	26-95	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2144012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	5.6	56	48-124	
Pyrene	ug/L	10	5.7	57	54-131	
2-Fluorobiphenyl (S)	%.			39	10-108	
p-Terphenyl-d14 (S)	%.			49	10-167	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 464571 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206664015, 50206664016, 50206664017

METHOD BLANK: 2144302 Matrix: Solid
Associated Lab Samples: 50206664015, 50206664016, 50206664017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/04/18 07:09	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/04/18 07:09	
Acenaphthene	ug/kg	ND	5.0	10/04/18 07:09	
Acenaphthylene	ug/kg	ND	5.0	10/04/18 07:09	
Anthracene	ug/kg	ND	5.0	10/04/18 07:09	
Benzo(a)anthracene	ug/kg	ND	5.0	10/04/18 07:09	
Benzo(a)pyrene	ug/kg	ND	5.0	10/04/18 07:09	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/04/18 07:09	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/04/18 07:09	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/04/18 07:09	
Chrysene	ug/kg	ND	5.0	10/04/18 07:09	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/04/18 07:09	
Fluoranthene	ug/kg	ND	5.0	10/04/18 07:09	
Fluorene	ug/kg	ND	5.0	10/04/18 07:09	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/04/18 07:09	
Naphthalene	ug/kg	ND	5.0	10/04/18 07:09	
Phenanthrene	ug/kg	ND	5.0	10/04/18 07:09	
Pyrene	ug/kg	ND	5.0	10/04/18 07:09	
2-Fluorobiphenyl (S)	%.	87	40-107	10/04/18 07:09	
p-Terphenyl-d14 (S)	%.	100	35-115	10/04/18 07:09	

LABORATORY CONTROL SAMPLE: 2144303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	331	300	91	49-102	N2
2-Methylnaphthalene	ug/kg	331	300	91	50-104	
Acenaphthene	ug/kg	331	309	93	59-119	
Acenaphthylene	ug/kg	331	313	95	61-122	
Anthracene	ug/kg	331	229	69	57-111	
Benzo(a)anthracene	ug/kg	331	345	104	57-121	
Benzo(a)pyrene	ug/kg	331	372	112	55-130	
Benzo(b)fluoranthene	ug/kg	331	311	94	53-125	
Benzo(g,h,i)perylene	ug/kg	331	336	101	56-124	
Benzo(k)fluoranthene	ug/kg	331	398	120	55-137	
Chrysene	ug/kg	331	334	101	60-134	
Dibenz(a,h)anthracene	ug/kg	331	381	115	60-122	
Fluoranthene	ug/kg	331	353	107	60-117	
Fluorene	ug/kg	331	337	102	55-114	
Indeno(1,2,3-cd)pyrene	ug/kg	331	365	110	57-124	
Naphthalene	ug/kg	331	282	85	54-107	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2144303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	331	304	92	60-115	
Pyrene	ug/kg	331	309	93	61-135	
2-Fluorobiphenyl (S)	%.			83	40-107	
p-Terphenyl-d14 (S)	%.			92	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144304 2144305

Parameter	Units	50206655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	406	407	346	365	85	90	20-119	5	20	N2
2-Methylnaphthalene	ug/kg	ND	406	407	344	361	85	89	25-114	5	20	
Acenaphthene	ug/kg	ND	406	407	337	353	82	86	34-124	4	20	
Acenaphthylene	ug/kg	ND	406	407	303	310	75	76	37-128	3	20	
Anthracene	ug/kg	ND	406	407	168	174	41	42	25-118	3	20	
Benzo(a)anthracene	ug/kg	ND	406	407	321	339	78	83	16-129	6	20	
Benzo(a)pyrene	ug/kg	ND	406	407	266	279	66	68	19-131	5	20	
Benzo(b)fluoranthene	ug/kg	ND	406	407	325	333	80	81	15-127	2	20	
Benzo(g,h,i)perylene	ug/kg	ND	406	407	309	325	76	80	15-128	5	20	
Benzo(k)fluoranthene	ug/kg	ND	406	407	387	403	95	99	14-142	4	20	
Chrysene	ug/kg	ND	406	407	348	374	85	91	19-141	7	20	
Dibenz(a,h)anthracene	ug/kg	ND	406	407	374	405	92	100	18-133	8	20	
Fluoranthene	ug/kg	0.012 mg/kg	406	407	374	389	89	92	25-125	4	20	
Fluorene	ug/kg	ND	406	407	376	388	92	95	32-118	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	406	407	349	368	86	90	11-134	5	20	
Naphthalene	ug/kg	ND	406	407	327	341	80	83	13-137	4	20	
Phenanthrene	ug/kg	ND	406	407	329	339	80	82	21-130	3	20	
Pyrene	ug/kg	0.0082 mg/kg	406	407	319	339	77	81	20-143	6	20	
2-Fluorobiphenyl (S)	%.						74	78	40-107			
p-Terphenyl-d14 (S)	%.						75	82	35-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 465036 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 | Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206664009, 50206664014

METHOD BLANK: 2146406 | Matrix: Solid
Associated Lab Samples: 50206664009, 50206664014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/05/18 15:01	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/05/18 15:01	
Acenaphthene	ug/kg	ND	5.0	10/05/18 15:01	
Acenaphthylene	ug/kg	ND	5.0	10/05/18 15:01	
Anthracene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(a)anthracene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(a)pyrene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/05/18 15:01	
Chrysene	ug/kg	ND	5.0	10/05/18 15:01	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/05/18 15:01	
Fluoranthene	ug/kg	ND	5.0	10/05/18 15:01	
Fluorene	ug/kg	ND	5.0	10/05/18 15:01	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/05/18 15:01	
Naphthalene	ug/kg	ND	5.0	10/05/18 15:01	
Phenanthrene	ug/kg	ND	5.0	10/05/18 15:01	
Pyrene	ug/kg	ND	5.0	10/05/18 15:01	
2-Fluorobiphenyl (S)	%.	91	40-107	10/05/18 15:01	
p-Terphenyl-d14 (S)	%.	96	35-115	10/05/18 15:01	

LABORATORY CONTROL SAMPLE: 2146407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	332	280	84	49-102	N2
2-Methylnaphthalene	ug/kg	332	276	83	50-104	
Acenaphthene	ug/kg	332	296	89	59-119	
Acenaphthylene	ug/kg	332	286	86	61-122	
Anthracene	ug/kg	332	230	69	57-111	
Benzo(a)anthracene	ug/kg	332	314	94	57-121	
Benzo(a)pyrene	ug/kg	332	334	101	55-130	
Benzo(b)fluoranthene	ug/kg	332	387	116	53-125	
Benzo(g,h,i)perylene	ug/kg	332	333	100	56-124	
Benzo(k)fluoranthene	ug/kg	332	297	89	55-137	
Chrysene	ug/kg	332	315	95	60-134	
Dibenz(a,h)anthracene	ug/kg	332	335	101	60-122	
Fluoranthene	ug/kg	332	316	95	60-117	
Fluorene	ug/kg	332	314	95	55-114	
Indeno(1,2,3-cd)pyrene	ug/kg	332	328	99	57-124	
Naphthalene	ug/kg	332	266	80	54-107	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2146407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	332	302	91	60-115	
Pyrene	ug/kg	332	311	94	61-135	
2-Fluorobiphenyl (S)	%.			83	40-107	
p-Terphenyl-d14 (S)	%.			93	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2146408 2146409

Parameter	Units	50206949001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	392	392	349	346	88	87	20-119	1	20	N2
2-Methylnaphthalene	ug/kg	ND	392	392	352	352	88	89	25-114	0	20	
Acenaphthene	ug/kg	ND	392	392	366	375	93	96	34-124	3	20	
Acenaphthylene	ug/kg	ND	392	392	360	364	92	93	37-128	1	20	
Anthracene	ug/kg	ND	392	392	257	270	65	69	25-118	5	20	
Benzo(a)anthracene	ug/kg	ND	392	392	326	351	83	89	16-129	8	20	
Benzo(a)pyrene	ug/kg	ND	392	392	346	384	88	98	19-131	10	20	
Benzo(b)fluoranthene	ug/kg	ND	392	392	384	385	98	98	15-127	0	20	
Benzo(g,h,i)perylene	ug/kg	ND	392	392	332	377	85	96	15-128	13	20	
Benzo(k)fluoranthene	ug/kg	ND	392	392	315	405	80	103	14-142	25	20	R1
Chrysene	ug/kg	ND	392	392	345	366	88	93	19-141	6	20	
Dibenz(a,h)anthracene	ug/kg	ND	392	392	375	404	96	103	18-133	7	20	
Fluoranthene	ug/kg	ND	392	392	333	373	85	95	25-125	11	20	
Fluorene	ug/kg	ND	392	392	380	381	97	97	32-118	0	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	392	392	331	374	84	95	11-134	12	20	
Naphthalene	ug/kg	0.024 mg/kg	392	392	351	356	83	84	13-137	1	20	
Phenanthrene	ug/kg	ND	392	392	341	360	87	92	21-130	5	20	
Pyrene	ug/kg	ND	392	392	331	359	84	91	20-143	8	20	
2-Fluorobiphenyl (S)	%.						86	85	40-107			
p-Terphenyl-d14 (S)	%.						81	85	35-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 465293 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 | Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206664012, 50206664013

METHOD BLANK: 2147903 | Matrix: Solid
Associated Lab Samples: 50206664012, 50206664013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/08/18 14:36	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/08/18 14:36	
Acenaphthene	ug/kg	ND	5.0	10/08/18 14:36	
Acenaphthylene	ug/kg	ND	5.0	10/08/18 14:36	
Anthracene	ug/kg	ND	5.0	10/08/18 14:36	
Benzo(a)anthracene	ug/kg	ND	5.0	10/08/18 14:36	
Benzo(a)pyrene	ug/kg	ND	5.0	10/08/18 14:36	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/08/18 14:36	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/08/18 14:36	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/08/18 14:36	
Chrysene	ug/kg	ND	5.0	10/08/18 14:36	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/08/18 14:36	
Fluoranthene	ug/kg	ND	5.0	10/08/18 14:36	
Fluorene	ug/kg	ND	5.0	10/08/18 14:36	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/08/18 14:36	
Naphthalene	ug/kg	11.4	5.0	10/08/18 14:36	P8
Phenanthrene	ug/kg	ND	5.0	10/08/18 14:36	
Pyrene	ug/kg	ND	5.0	10/08/18 14:36	
2-Fluorobiphenyl (S)	%.	81	40-107	10/08/18 14:36	
p-Terphenyl-d14 (S)	%.	87	35-115	10/08/18 14:36	

LABORATORY CONTROL SAMPLE: 2147904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	330	270	82	49-102	N2
2-Methylnaphthalene	ug/kg	330	271	82	50-104	
Acenaphthene	ug/kg	330	271	82	59-119	
Acenaphthylene	ug/kg	330	280	85	61-122	
Anthracene	ug/kg	330	278	84	57-111	
Benzo(a)anthracene	ug/kg	330	321	97	57-121	
Benzo(a)pyrene	ug/kg	330	349	106	55-130	
Benzo(b)fluoranthene	ug/kg	330	351	106	53-125	
Benzo(g,h,i)perylene	ug/kg	330	301	91	56-124	
Benzo(k)fluoranthene	ug/kg	330	307	93	55-137	
Chrysene	ug/kg	330	296	90	60-134	
Dibenz(a,h)anthracene	ug/kg	330	354	107	60-122	
Fluoranthene	ug/kg	330	299	91	60-117	
Fluorene	ug/kg	330	291	88	55-114	
Indeno(1,2,3-cd)pyrene	ug/kg	330	336	102	57-124	
Naphthalene	ug/kg	330	266	80	54-107	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2147904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	330	264	80	60-115	
Pyrene	ug/kg	330	263	80	61-135	
2-Fluorobiphenyl (S)	%.			81	40-107	
p-Terphenyl-d14 (S)	%.			90	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147905 2147906

Parameter	Units	50206801005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	411	408	296	250	72	61	20-119	17	20	N2
2-Methylnaphthalene	ug/kg	ND	411	408	290	252	70	61	25-114	14	20	
Acenaphthene	ug/kg	ND	411	408	294	249	71	61	34-124	17	20	
Acenaphthylene	ug/kg	ND	411	408	288	238	70	58	37-128	19	20	
Anthracene	ug/kg	ND	411	408	256	219	62	54	25-118	15	20	
Benzo(a)anthracene	ug/kg	ND	411	408	283	257	69	63	16-129	10	20	
Benzo(a)pyrene	ug/kg	ND	411	408	291	275	71	67	19-131	6	20	
Benzo(b)fluoranthene	ug/kg	ND	411	408	287	281	70	69	15-127	2	20	
Benzo(g,h,i)perylene	ug/kg	ND	411	408	242	241	59	59	15-128	0	20	
Benzo(k)fluoranthene	ug/kg	ND	411	408	276	262	67	64	14-142	6	20	
Chrysene	ug/kg	ND	411	408	296	261	72	64	19-141	12	20	
Dibenz(a,h)anthracene	ug/kg	ND	411	408	308	288	75	71	18-133	7	20	
Fluoranthene	ug/kg	ND	411	408	302	273	72	66	25-125	10	20	
Fluorene	ug/kg	ND	411	408	306	262	74	64	32-118	16	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	411	408	271	264	66	65	11-134	3	20	
Naphthalene	ug/kg	ND	411	408	291	248	70	60	13-137	16	20	
Phenanthrene	ug/kg	ND	411	408	257	225	61	54	21-130	13	20	
Pyrene	ug/kg	ND	411	408	267	241	64	58	20-143	10	20	
2-Fluorobiphenyl (S)	%.						69	60	40-107			
p-Terphenyl-d14 (S)	%.						69	62	35-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 465496 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 | Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206664010, 50206664011

METHOD BLANK: 2148520 | Matrix: Solid
Associated Lab Samples: 50206664010, 50206664011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/09/18 14:23	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/09/18 14:23	
Acenaphthene	ug/kg	ND	5.0	10/09/18 14:23	
Acenaphthylene	ug/kg	ND	5.0	10/09/18 14:23	
Anthracene	ug/kg	ND	5.0	10/09/18 14:23	
Benzo(a)anthracene	ug/kg	ND	5.0	10/09/18 14:23	
Benzo(a)pyrene	ug/kg	ND	5.0	10/09/18 14:23	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/09/18 14:23	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/09/18 14:23	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/09/18 14:23	
Chrysene	ug/kg	ND	5.0	10/09/18 14:23	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/09/18 14:23	
Fluoranthene	ug/kg	ND	5.0	10/09/18 14:23	
Fluorene	ug/kg	ND	5.0	10/09/18 14:23	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/09/18 14:23	
Naphthalene	ug/kg	ND	5.0	10/09/18 14:23	
Phenanthrene	ug/kg	ND	5.0	10/09/18 14:23	
Pyrene	ug/kg	ND	5.0	10/09/18 14:23	
2-Fluorobiphenyl (S)	%.	88	40-107	10/09/18 14:23	
p-Terphenyl-d14 (S)	%.	91	35-115	10/09/18 14:23	

LABORATORY CONTROL SAMPLE: 2148521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	329	245	75	49-102	N2
2-Methylnaphthalene	ug/kg	329	250	76	50-104	
Acenaphthene	ug/kg	329	267	81	59-119	
Acenaphthylene	ug/kg	329	258	78	61-122	
Anthracene	ug/kg	329	272	83	57-111	
Benzo(a)anthracene	ug/kg	329	270	82	57-121	
Benzo(a)pyrene	ug/kg	329	291	88	55-130	
Benzo(b)fluoranthene	ug/kg	329	287	87	53-125	
Benzo(g,h,i)perylene	ug/kg	329	287	87	56-124	
Benzo(k)fluoranthene	ug/kg	329	297	90	55-137	
Chrysene	ug/kg	329	271	82	60-134	
Dibenz(a,h)anthracene	ug/kg	329	296	90	60-122	
Fluoranthene	ug/kg	329	273	83	60-117	
Fluorene	ug/kg	329	275	84	55-114	
Indeno(1,2,3-cd)pyrene	ug/kg	329	283	86	57-124	
Naphthalene	ug/kg	329	243	74	54-107	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

LABORATORY CONTROL SAMPLE: 2148521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	329	261	79	60-115	
Pyrene	ug/kg	329	266	81	61-135	
2-Fluorobiphenyl (S)	%.			79	40-107	
p-Terphenyl-d14 (S)	%.			84	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2148522 2148523

Parameter	Units	50206852005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	0.14 mg/kg	366	367	453	404	84	70	20-119	11	20	N2
2-Methylnaphthalene	ug/kg	0.15 mg/kg	366	367	429	418	77	74	25-114	3	20	
Acenaphthene	ug/kg	ND	366	367	289	286	79	78	34-124	1	20	
Acenaphthylene	ug/kg	ND	366	367	277	273	76	74	37-128	2	20	
Anthracene	ug/kg	ND	366	367	283	277	77	75	25-118	2	20	
Benzo(a)anthracene	ug/kg	ND	366	367	292	289	80	79	16-129	1	20	
Benzo(a)pyrene	ug/kg	ND	366	367	341	335	93	91	19-131	2	20	
Benzo(b)fluoranthene	ug/kg	ND	366	367	389	356	106	97	15-127	9	20	
Benzo(g,h,i)perylene	ug/kg	ND	366	367	333	327	90	88	15-128	2	20	
Benzo(k)fluoranthene	ug/kg	ND	366	367	304	315	83	86	14-142	4	20	
Chrysene	ug/kg	ND	366	367	289	288	78	78	19-141	0	20	
Dibenz(a,h)anthracene	ug/kg	ND	366	367	342	335	93	91	18-133	2	20	
Fluoranthene	ug/kg	ND	366	367	287	284	78	77	25-125	1	20	
Fluorene	ug/kg	ND	366	367	306	298	83	80	32-118	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	366	367	330	322	90	88	11-134	2	20	
Naphthalene	ug/kg	0.24 mg/kg	366	367	564	497	89	71	13-137	13	20	
Phenanthrene	ug/kg	0.0063 mg/kg	366	367	302	296	81	79	21-130	2	20	
Pyrene	ug/kg	ND	366	367	294	279	79	75	20-143	5	20	
2-Fluorobiphenyl (S)	%.						77	76	40-107			
p-Terphenyl-d14 (S)	%.						85	78	35-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 464205 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206664009, 50206664010, 50206664011, 50206664012, 50206664013, 50206664014, 50206664015

SAMPLE DUPLICATE: 2142853

Parameter	Units	50206300001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.7	11.4	19	5	R1

SAMPLE DUPLICATE: 2143087

Parameter	Units	50206349002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.5	10.3	8	5	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Indiana University Health
Pace Project No.: 50206664

QC Batch: 464207
QC Batch Method: SM 2540G
Analysis Method: SM 2540G
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206664016, 50206664017

SAMPLE DUPLICATE: 2142859

Parameter	Units	50206561001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.3	12.5	19	5	R1

SAMPLE DUPLICATE: 2142860

Parameter	Units	50206576010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.6	14.0	47	5	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALIFIERS

Project: Indiana University Health
Pace Project No.: 50206664

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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-I	Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 465161

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 465165

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 465361

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL 34ug/kg, based on the MDL. aa 10/09/18
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.

Pace Analytical Services, LLC
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(317)228-3100

QUALIFIERS

Project: Indiana University Health
Pace Project No.: 50206664

ANALYTE QUALIFIERS

M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
S8	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-extraction and/or re-analysis)

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Indiana University Health
Pace Project No.: 50206664

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50206664009	**SB-9-4-6**	EPA 3050	464083	EPA 6010	464814
50206664010	**SB-13-2-4**	EPA 3050	464083	EPA 6010	464814
50206664011	**SB-14-4-6**	EPA 3050	464083	EPA 6010	464814
50206664009	**SB-9-4-6**	EPA 7471	464593	EPA 7471	465053
50206664010	**SB-13-2-4**	EPA 7471	464593	EPA 7471	465053
50206664011	**SB-14-4-6**	EPA 7471	464593	EPA 7471	465053
50206664001	**SB-19-GW-0-9**	EPA 3510	464485	EPA 8270 by SIM LVE	464692
50206664002	**SB-21-GW-0-9**	EPA 3510	464485	EPA 8270 by SIM LVE	464692
50206664004	**SB-9-GW-2-12**	EPA 3510	464485	EPA 8270 by SIM LVE	464692
50206664005	**SB-13-GW-5-15**	EPA 3510	464485	EPA 8270 by SIM LVE	464692
50206664006	**SB-14-GW-6-16**	EPA 3510	464485	EPA 8270 by SIM LVE	464692
50206664007	**SB-8-GW-6-11**	EPA 3510	464485	EPA 8270 by SIM LVE	464692
50206664008	**SB-6-GW-4-14**	EPA 3510	464485	EPA 8270 by SIM LVE	464692
50206664009	**SB-9-4-6**	EPA 3546	465036	EPA 8270 by SIM	465142
50206664010	**SB-13-2-4**	EPA 3546	465496	EPA 8270 by SIM	465607
50206664011	**SB-14-4-6**	EPA 3546	465496	EPA 8270 by SIM	465607
50206664012	**SB-8-2-4**	EPA 3546	465293	EPA 8270 by SIM	465355
50206664013	**SB-7-8-10**	EPA 3546	465293	EPA 8270 by SIM	465355
50206664014	**SB-7-12-14**	EPA 3546	465036	EPA 8270 by SIM	465142
50206664015	**SB-6-4-6**	EPA 3546	464571	EPA 8270 by SIM	464773
50206664016	**SB-5-2-4**	EPA 3546	464571	EPA 8270 by SIM	464773
50206664017	**SB-5-8-10**	EPA 3546	464571	EPA 8270 by SIM	464773
50206664001	**SB-19-GW-0-9**	EPA 8260	465164		
50206664002	**SB-21-GW-0-9**	EPA 8260	465164		
50206664004	**SB-9-GW-2-12**	EPA 8260	465164		
50206664005	**SB-13-GW-5-15**	EPA 8260	465164		
50206664006	**SB-14-GW-6-16**	EPA 8260	465164		
50206664007	**SB-8-GW-6-11**	EPA 8260	465164		
50206664008	**SB-6-GW-4-14**	EPA 8260	465164		
50206664009	**SB-9-4-6**	EPA 8260	465382		
50206664010	**SB-13-2-4**	EPA 8260	465161		
50206664011	**SB-14-4-6**	EPA 8260	465161		
50206664012	**SB-8-2-4**	EPA 8260	465165		
50206664013	**SB-7-8-10**	EPA 8260	465361		
50206664014	**SB-7-12-14**	EPA 8260	465361		
50206664015	**SB-6-4-6**	EPA 8260	465361		
50206664016	**SB-5-2-4**	EPA 8260	465361		
50206664017	**SB-5-8-10**	EPA 8260	465361		
50206664009	**SB-9-4-6**	SM 2540G	464205		
50206664010	**SB-13-2-4**	SM 2540G	464205		
50206664011	**SB-14-4-6**	SM 2540G	464205		
50206664012	**SB-8-2-4**	SM 2540G	464205		

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Indiana University Health
Pace Project No.: 50206664

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50206664013	**SB-7-8-10**	SM 2540G	464205		
50206664014	**SB-7-12-14**	SM 2540G	464205		
50206664015	**SB-6-4-6**	SM 2540G	464205		
50206664016	**SB-5-2-4**	SM 2540G	464207		
50206664017	**SB-5-8-10**	SM 2540G	464207		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: August Mack Environmental, Inc.	Report To: Kara Seymour KSeymour@augustmack.com	Attention:
Address: 1302 N. Meridian St., Suite 300, Indianapolis, IN 46202	Copy To: Tyler Zschiedrich TZschiedrich@augustmack.com	Company Name:
Email To: Kara Seymour KSeymour@augustmack.com	Purchase Order No.:	Address: Pace Quote Reference:
Phone: (317) 916-8000 Fax: (317) 916-8001	Project Name: Indiana University Health Bloomington Hospital Campus	Pace Project Manager: Kelly Jones
Requested Due Date/TAT:	Project Number: JS1901.740	Pace Profile #:

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

Site Location STATE: IN

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC	PAH RCRA8 Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-19-GW-0-9	WT	G			9.27.18	935		5	2			3					X	X			001
2	SB-21-GW-0-9	WT	G			9.27.18	940		4	2			2					X	X			002
3	SB-21-GW-0-9	WT	G			9.26.18	1850		1				1					X				003
4	SB-9-4-6	SL	G			9.27.18	1100		6	3						1	2	X	X	X		009
5	SB-9-GW-2-12	WT	G			9.27.18	1050		5	2			3					X	X			004
6	SB-13-2-4	SL	G			9.27.18	1245		6	3						1	2	X	X	X		010
7	SB-13-GW-5-15	WT	G			9.27.18	1215		5	2			3					X	X			005
8	SB-14-4-6	SL	G			9.27.18	1350		6	3						1	2	X	X	X		011
9	SB-14-GW-6-16	WT	G			9.27.18	1330		5	2			3					X	X			006
10	SB-8-2-4	SL	G			9.27.18	1450		5	2						1	2	X	X			012
11	SB-8-GW-6-11	WT	G			9.27.18	1815		5	2			3					X	X			007
12	SB-7-8-10	SL	G			9.27.18	1600		5	2						1	2	X	X			013

502666 64

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	9-28-18	0950	[signature] Pace	9/28	950	
	[signature] Pace	9/28	1125	Jason Hunt	9-28	1255	1.8 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kara Seymour

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/27/18

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

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

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F-ALL-Q-020rev.08, 12-Oct-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: August Mack Environmental, Inc.	Report To: Kara Seymour KSeymour@augustmack.com	Attention:
Address: 1302 N. Meridian St., Suite 300, Indianapolis, IN 46202	Copy To: Tyler Tschiedrich TTschiedrich@augustmack.com	Company Name:
Email To: Kara Seymour KSeymour@augustmack.com	Purchase Order No.:	Address:
Phone: (317)916-8000 Fax: (317)916-8001	Project Name: Indiana University Health Bloomington Hospital Campus	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: JS1901.740	Pace Project Manager: Kelly Jones
		Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: IN

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-7-12-14	SL	G			9.27.18	1605		5	2						1	2			014
2	SB-6-4-6	SL	G			9.27.18	1650		5	2						1	2			015
3	SB-6-GW-4-14	WT	G			9.27.18	1640		5	2			3							008
4	SB-5-2-4	SL	G			9.27.18	1900		5	2						1	2			016
5	SB-5-8-10	SL	G			9.27.18	1810		5	2						1	2			017
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	9-28-18	0950	[signature] Pace	9/28	950	
	[signature] Pace	9/28	1255				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kara Seymour

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/27/18

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

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

F-ALL-Q-020rev.08, 12-Oct-2007

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SAMPLE CONDITION UPON RECEIPT FORM

Pace Analytical

Project #: 50266664

Date/Time and Initials of person examining contents: JHQ-28 1417

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals Intact:** ☐ Yes ☒ No

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 1.8/1.8 1.3/1.3 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

All discrepancies will be written out in the comments section below.

	Yes	No
Are samples from West Virginia? Document any containers out of temp.		X
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X
Chain of Custody Present:	X	
Chain of Custody Filled Out:	X	
Short Hold Time Analysis (<72hr)?: TC **Analysis:**	X	1
Time 5035A TC placed in Freezer or Short Holds To Lab: 1430		
Rush TAT Requested:		X
Containers Intact?:	X	
Sample Labels Match COC?: Except TCs, which only require sample ID	X	

	Yes	No	N/A
All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted. Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			X
Dissolved Metals field filtered?:			X
Headspace Wisconsin Sulfide			X
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Headspace in VOA Vials (>6mm):		X	
Trip Blank Present?:		X	
Trip Blank Custody Seals?:		X	

Comments:

Sample Container Count

CLIENT: August Mack

COC PAGE 1 of 2

COC ID# _____

Project # 5025664

Sample Line Item	DG9H / VG9B	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	SBS Bulk / D9 Kit R	Matrix SI/WI/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3	2																Wt			
2	2	2																Wt			
3	1																	Wt			
4							2										4	SC			
5	3	2																wt			
6							2										4	SL			
7	3	2																wt			
8							2										4	SC			
9	3	2																wt			
10							1										4	SL			
11	3	2																wt			
12							1										4	SL			

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Sample Container Count

WO# : 50206664

50206664

CLIENT: August Mack

COC PAGE 2 of 2

COC ID# _____

Project # 50206664

SBS Bulk Kit

Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix SI/ (Soil/Wat Aqueous	pH <2	pH >9	pH>12
1								1										4	SC			
2								1										4	SC			
3	3	2																	WT			
4								1										4	SC			
5								1										4	SL			
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

December 07, 2018

Tyler Zschiedrich
August Mack Environmental Consultants
1302 N Meridian Street
Suite 300
Indianapolis, IN 46202

RE: Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Dear Tyler Zschiedrich:
Enclosed are the analytical results for sample(s) received by the laboratory between September 25, 2018 and October 02, 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.

Revised Report: This version replaces the original dated, 10/10/18. Client request to adjust 8260 compound list for sample -009./120718kj

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

Sincerely,

Kelly Jones
kelly.jones@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Andy Tennyson, August Mack Environmental Consultants

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355-18-12
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50206354001	**SB-1-6-8**	Solid	09/24/18 16:15	09/25/18 15:35
50206354003	**SB-3-4-6**	Solid	09/24/18 18:40	09/25/18 15:35
50206354004	**SB-4-2-4**	Solid	09/24/18 18:20	09/25/18 15:35
50206354005	**SB-1-GW-5-10**	Water	09/24/18 16:00	09/25/18 15:35
50206354006	**SB-2-GW-3.5-8.5**	Water	09/24/18 18:35	09/25/18 15:35
50206354007	**SB-3-GW-5-10**	Water	09/24/18 18:25	09/25/18 15:35
50206354008	**SB-4-GW-6-11**	Water	09/24/18 17:25	09/25/18 15:35
50206354009	**SB-2-4-6**	Solid	09/24/18 17:15	09/26/18 09:55
50206817001	**SB-2-4-6**	Solid	09/24/18 17:15	10/02/18 12:10

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50206354001	**SB-1-6-8**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206354003	**SB-3-4-6**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206354004	**SB-4-2-4**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50206354005	**SB-1-GW-5-10**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206354006	**SB-2-GW-3.5-8.5**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206354007	**SB-3-GW-5-10**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206354008	**SB-4-GW-6-11**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	ALA	73	PASI-I
50206354009	**SB-2-4-6**	EPA 8260	GRM	73	PASI-I
50206817001	**SB-2-4-6**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	CDR	1	PASI-I

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206354001	**SB-1-6-8**					
EPA 6010	Lead	62.9	mg/kg	3.3	09/27/18 17:31	
EPA 8270 by SIM	Fluoranthene	21.0	ug/kg	18.6	10/04/18 19:25	
EPA 8270 by SIM	1-Methylnaphthalene	933	ug/kg	18.6	10/04/18 19:25	N2
EPA 8270 by SIM	2-Methylnaphthalene	2100	ug/kg	18.6	10/04/18 19:25	
EPA 8270 by SIM	Naphthalene	168	ug/kg	18.6	10/04/18 19:25	
EPA 8270 by SIM	Phenanthrene	19.3	ug/kg	18.6	10/04/18 19:25	
EPA 8260	n-Hexane	1550	ug/kg	765	10/03/18 17:26	M5
SM 2540G	Percent Moisture	73.5	%	0.10	09/27/18 10:09	
50206354003	**SB-3-4-6**					
EPA 6010	Lead	30.6	mg/kg	1.2	09/27/18 17:35	
EPA 8270 by SIM	Fluoranthene	7.5	ug/kg	6.4	10/04/18 19:41	
EPA 8270 by SIM	1-Methylnaphthalene	6.9	ug/kg	6.4	10/04/18 19:41	N2
EPA 8270 by SIM	2-Methylnaphthalene	11.4	ug/kg	6.4	10/04/18 19:41	
EPA 8270 by SIM	Naphthalene	44.5	ug/kg	6.4	10/04/18 19:41	
EPA 8270 by SIM	Phenanthrene	7.8	ug/kg	6.4	10/04/18 19:41	
SM 2540G	Percent Moisture	22.5	%	0.10	09/27/18 10:09	
50206354004	**SB-4-2-4**					
EPA 6010	Lead	25.0	mg/kg	1.2	09/27/18 17:38	
EPA 8270 by SIM	Benzo(a)anthracene	6.4	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Benzo(a)pyrene	7.9	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Benzo(b)fluoranthene	15.0	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Benzo(g,h,i)perylene	8.5	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Benzo(k)fluoranthene	11.0	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Chrysene	13.9	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Fluoranthene	28.0	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	7.6	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Naphthalene	11.0	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Phenanthrene	12.7	ug/kg	6.3	10/01/18 18:36	
EPA 8270 by SIM	Pyrene	20.9	ug/kg	6.3	10/01/18 18:36	
SM 2540G	Percent Moisture	21.4	%	0.10	09/27/18 11:36	
50206354005	**SB-1-GW-5-10**					
EPA 8270 by SIM LVE	Benzo(a)anthracene	0.12	ug/L	0.11	10/01/18 18:30	
EPA 8270 by SIM LVE	Benzo(a)pyrene	0.12	ug/L	0.11	10/01/18 18:30	
EPA 8270 by SIM LVE	Benzo(b)fluoranthene	0.27	ug/L	0.11	10/01/18 18:30	
EPA 8270 by SIM LVE	Benzo(g,h,i)perylene	0.14	ug/L	0.11	10/01/18 18:30	
EPA 8270 by SIM LVE	Benzo(k)fluoranthene	0.12	ug/L	0.11	10/01/18 18:30	
EPA 8270 by SIM LVE	1-Methylnaphthalene	2.4	ug/L	1.1	10/01/18 18:30	N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	3.9	ug/L	1.1	10/01/18 18:30	
EPA 8270 by SIM LVE	Naphthalene	1.9	ug/L	1.1	10/01/18 18:30	
EPA 8260	n-Butylbenzene	9.0	ug/L	5.0	10/03/18 05:03	M5
EPA 8260	sec-Butylbenzene	5.7	ug/L	5.0	10/03/18 05:03	M5
EPA 8260	n-Hexane	180	ug/L	5.0	10/03/18 05:03	M5
EPA 8260	Isopropylbenzene (Cumene)	21.8	ug/L	5.0	10/03/18 05:03	M5
EPA 8260	n-Propylbenzene	38.8	ug/L	5.0	10/03/18 05:03	M5

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50206354006	**SB-2-GW-3.5-8.5**					
EPA 8270 by SIM LVE	Anthracene	0.14	ug/L	0.10	10/01/18 18:40	
EPA 8270 by SIM LVE	Benzo(a)anthracene	0.57	ug/L	0.10	10/01/18 18:40	
EPA 8270 by SIM LVE	Benzo(a)pyrene	0.66	ug/L	0.10	10/01/18 18:40	
EPA 8270 by SIM LVE	Benzo(b)fluoranthene	1.3	ug/L	0.10	10/01/18 18:40	
EPA 8270 by SIM LVE	Benzo(g,h,i)perylene	0.62	ug/L	0.10	10/01/18 18:40	
EPA 8270 by SIM LVE	Benzo(k)fluoranthene	0.60	ug/L	0.10	10/01/18 18:40	
EPA 8270 by SIM LVE	Chrysene	0.93	ug/L	0.50	10/01/18 18:40	
EPA 8270 by SIM LVE	Dibenz(a,h)anthracene	0.11	ug/L	0.10	10/01/18 18:40	
EPA 8270 by SIM LVE	Fluoranthene	2.3	ug/L	1.0	10/01/18 18:40	
EPA 8270 by SIM LVE	Indeno(1,2,3-cd)pyrene	0.44	ug/L	0.10	10/01/18 18:40	
EPA 8270 by SIM LVE	1-Methylnaphthalene	9.2	ug/L	1.0	10/01/18 18:40	N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	12.2	ug/L	1.0	10/01/18 18:40	
EPA 8270 by SIM LVE	Phenanthrene	1.6	ug/L	1.0	10/01/18 18:40	
EPA 8270 by SIM LVE	Pyrene	2.1	ug/L	1.0	10/01/18 18:40	
EPA 8260	Isopropylbenzene (Cumene)	5.7	ug/L	5.0	10/03/18 05:41	M5
EPA 8260	n-Propylbenzene	11.1	ug/L	5.0	10/03/18 05:41	M5
50206354007	**SB-3-GW-5-10**					
EPA 8270 by SIM LVE	Benzo(b)fluoranthene	0.17	ug/L	0.10	10/01/18 18:51	
50206354008	**SB-4-GW-6-11**					
EPA 8270 by SIM LVE	Benzo(a)pyrene	0.16	ug/L	0.11	10/01/18 19:01	
EPA 8270 by SIM LVE	Benzo(b)fluoranthene	0.31	ug/L	0.11	10/01/18 19:01	
EPA 8270 by SIM LVE	Benzo(g,h,i)perylene	0.20	ug/L	0.11	10/01/18 19:01	
EPA 8270 by SIM LVE	Benzo(k)fluoranthene	0.13	ug/L	0.11	10/01/18 19:01	
EPA 8270 by SIM LVE	Indeno(1,2,3-cd)pyrene	0.15	ug/L	0.11	10/01/18 19:01	
50206354009	**SB-2-4-6**					
EPA 8260	n-Butylbenzene	1510	ug/kg	205	10/03/18 19:06	M5
EPA 8260	sec-Butylbenzene	574	ug/kg	205	10/03/18 19:06	M5
EPA 8260	n-Hexane	4290	ug/kg	205	10/03/18 19:06	M5
EPA 8260	Isopropylbenzene (Cumene)	403	ug/kg	205	10/03/18 19:06	M5
EPA 8260	n-Propylbenzene	1030	ug/kg	205	10/03/18 19:06	M5
50206817001	**SB-2-4-6**					
EPA 6010	Lead	20.0	mg/kg	1.1	10/06/18 10:48	
EPA 8270 by SIM	Acenaphthene	12.0	ug/kg	6.3	10/05/18 16:28	
EPA 8270 by SIM	Acenaphthylene	8.3	ug/kg	6.3	10/05/18 16:28	
EPA 8270 by SIM	Fluoranthene	7.9	ug/kg	6.3	10/05/18 16:28	
EPA 8270 by SIM	Fluorene	24.2	ug/kg	6.3	10/05/18 16:28	
EPA 8270 by SIM	1-Methylnaphthalene	1200	ug/kg	6.3	10/05/18 16:28	N2
EPA 8270 by SIM	2-Methylnaphthalene	1910	ug/kg	6.3	10/05/18 16:28	
EPA 8270 by SIM	Phenanthrene	23.9	ug/kg	6.3	10/05/18 16:28	
SM 2540G	Percent Moisture	20.9	%	0.10	10/03/18 10:05	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-1-6-8 **Lab ID: 50206354001** Collected: 09/24/18 16:15 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**62.9**	mg/kg	3.3	1	09/27/18 06:26	09/27/18 17:31	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	83-32-9	
Acenaphthylene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	208-96-8	
Anthracene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	120-12-7	
Benzo(a)anthracene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	207-08-9	
Chrysene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	53-70-3	
Fluoranthene	**21.0**	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	206-44-0	
Fluorene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	193-39-5	
1-Methylnaphthalene	**933**	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	90-12-0	N2
2-Methylnaphthalene	**2100**	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	91-57-6	
Naphthalene	**168**	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	91-20-3	
Phenanthrene	**19.3**	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	85-01-8	
Pyrene	ND	ug/kg	18.6	1	10/04/18 14:20	10/04/18 19:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	72	%.	40-107	1	10/04/18 14:20	10/04/18 19:25	321-60-8	
p-Terphenyl-d14 (S)	80	%.	35-115	1	10/04/18 14:20	10/04/18 19:25	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	15300	50		10/03/18 17:26	67-64-1	M5
Acrolein	ND	ug/kg	15300	50		10/03/18 17:26	107-02-8	M5
Acrylonitrile	ND	ug/kg	15300	50		10/03/18 17:26	107-13-1	M5
Benzene	ND	ug/kg	765	50		10/03/18 17:26	71-43-2	1d,D3, M5
Bromobenzene	ND	ug/kg	765	50		10/03/18 17:26	108-86-1	M5
Bromochloromethane	ND	ug/kg	765	50		10/03/18 17:26	74-97-5	M5
Bromodichloromethane	ND	ug/kg	765	50		10/03/18 17:26	75-27-4	M5
Bromoform	ND	ug/kg	765	50		10/03/18 17:26	75-25-2	M5
Bromomethane	ND	ug/kg	765	50		10/03/18 17:26	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	3830	50		10/03/18 17:26	78-93-3	M5
n-Butylbenzene	ND	ug/kg	765	50		10/03/18 17:26	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	765	50		10/03/18 17:26	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	765	50		10/03/18 17:26	98-06-6	M5
Carbon disulfide	ND	ug/kg	1530	50		10/03/18 17:26	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	765	50		10/03/18 17:26	56-23-5	M5
Chlorobenzene	ND	ug/kg	765	50		10/03/18 17:26	108-90-7	M5
Chloroethane	ND	ug/kg	765	50		10/03/18 17:26	75-00-3	M5
Chloroform	ND	ug/kg	765	50		10/03/18 17:26	67-66-3	M5
Chloromethane	ND	ug/kg	765	50		10/03/18 17:26	74-87-3	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-1-6-8 **Lab ID: 50206354001** Collected: 09/24/18 16:15 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
2-Chlorotoluene	ND	ug/kg	765	50		10/03/18 17:26	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	765	50		10/03/18 17:26	106-43-4	M5
Dibromochloromethane	ND	ug/kg	765	50		10/03/18 17:26	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	765	50		10/03/18 17:26	106-93-4	M5
Dibromomethane	ND	ug/kg	765	50		10/03/18 17:26	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	765	50		10/03/18 17:26	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	765	50		10/03/18 17:26	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	765	50		10/03/18 17:26	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	15300	50		10/03/18 17:26	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	765	50		10/03/18 17:26	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	765	50		10/03/18 17:26	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	765	50		10/03/18 17:26	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	765	50		10/03/18 17:26	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	765	50		10/03/18 17:26	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	765	50		10/03/18 17:26	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	765	50		10/03/18 17:26	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	765	50		10/03/18 17:26	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	765	50		10/03/18 17:26	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	765	50		10/03/18 17:26	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	765	50		10/03/18 17:26	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	765	50		10/03/18 17:26	10061-02-6	M5
Ethylbenzene	ND	ug/kg	765	50		10/03/18 17:26	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	15300	50		10/03/18 17:26	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	765	50		10/03/18 17:26	87-68-3	M5
n-Hexane	**1550**	ug/kg	765	50		10/03/18 17:26	110-54-3	M5
2-Hexanone	ND	ug/kg	15300	50		10/03/18 17:26	591-78-6	M5
Iodomethane	ND	ug/kg	15300	50		10/03/18 17:26	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	765	50		10/03/18 17:26	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	765	50		10/03/18 17:26	99-87-6	M5
Methylene Chloride	ND	ug/kg	3060	50		10/03/18 17:26	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	3830	50		10/03/18 17:26	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	765	50		10/03/18 17:26	1634-04-4	2d,M5
Naphthalene	ND	ug/kg	765	50		10/03/18 17:26	91-20-3	M5
n-Propylbenzene	ND	ug/kg	765	50		10/03/18 17:26	103-65-1	M5
Styrene	ND	ug/kg	765	50		10/03/18 17:26	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	765	50		10/03/18 17:26	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	765	50		10/03/18 17:26	79-34-5	M5
Tetrachloroethene	ND	ug/kg	765	50		10/03/18 17:26	127-18-4	M5
Toluene	ND	ug/kg	765	50		10/03/18 17:26	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	765	50		10/03/18 17:26	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	765	50		10/03/18 17:26	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	765	50		10/03/18 17:26	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	765	50		10/03/18 17:26	79-00-5	M5
Trichloroethene	ND	ug/kg	765	50		10/03/18 17:26	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	765	50		10/03/18 17:26	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	765	50		10/03/18 17:26	96-18-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-1-6-8 **Lab ID: 50206354001** Collected: 09/24/18 16:15 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,2,4-Trimethylbenzene	ND	ug/kg	765	50		10/03/18 17:26	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	765	50		10/03/18 17:26	108-67-8	M5
Vinyl acetate	ND	ug/kg	15300	50		10/03/18 17:26	108-05-4	M5
Vinyl chloride	ND	ug/kg	765	50		10/03/18 17:26	75-01-4	M5
Xylene (Total)	ND	ug/kg	1530	50		10/03/18 17:26	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	96	%.	80-127	50		10/03/18 17:26	1868-53-7	M5
Toluene-d8 (S)	100	%.	72-136	50		10/03/18 17:26	2037-26-5	M5
4-Bromofluorobenzene (S)	105	%.	57-130	50		10/03/18 17:26	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**73.5**	%	0.10	1		09/27/18 10:09		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-3-4-6 **Lab ID: 50206354003** Collected: 09/24/18 18:40 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**30.6**	mg/kg	1.2	1	09/27/18 06:26	09/27/18 17:35	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	83-32-9	
Acenaphthylene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	208-96-8	
Anthracene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	207-08-9	
Chrysene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	53-70-3	
Fluoranthene	**7.5**	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	206-44-0	
Fluorene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	193-39-5	
1-Methylnaphthalene	**6.9**	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	90-12-0	N2
2-Methylnaphthalene	**11.4**	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	91-57-6	
Naphthalene	**44.5**	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	91-20-3	
Phenanthrene	**7.8**	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	85-01-8	
Pyrene	ND	ug/kg	6.4	1	10/04/18 14:20	10/04/18 19:41	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	65	%.	40-107	1	10/04/18 14:20	10/04/18 19:41	321-60-8	
p-Terphenyl-d14 (S)	72	%.	35-115	1	10/04/18 14:20	10/04/18 19:41	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	118	1		10/04/18 03:29	67-64-1	M5
Acrolein	ND	ug/kg	118	1		10/04/18 03:29	107-02-8	M5
Acrylonitrile	ND	ug/kg	118	1		10/04/18 03:29	107-13-1	M5
Benzene	ND	ug/kg	5.9	1		10/04/18 03:29	71-43-2	M5
Bromobenzene	ND	ug/kg	5.9	1		10/04/18 03:29	108-86-1	M5
Bromochloromethane	ND	ug/kg	5.9	1		10/04/18 03:29	74-97-5	M5
Bromodichloromethane	ND	ug/kg	5.9	1		10/04/18 03:29	75-27-4	M5
Bromoform	ND	ug/kg	5.9	1		10/04/18 03:29	75-25-2	M5
Bromomethane	ND	ug/kg	5.9	1		10/04/18 03:29	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	29.6	1		10/04/18 03:29	78-93-3	M5
n-Butylbenzene	ND	ug/kg	5.9	1		10/04/18 03:29	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	5.9	1		10/04/18 03:29	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	5.9	1		10/04/18 03:29	98-06-6	M5
Carbon disulfide	ND	ug/kg	11.8	1		10/04/18 03:29	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	5.9	1		10/04/18 03:29	56-23-5	M5
Chlorobenzene	ND	ug/kg	5.9	1		10/04/18 03:29	108-90-7	M5
Chloroethane	ND	ug/kg	5.9	1		10/04/18 03:29	75-00-3	M5
Chloroform	ND	ug/kg	5.9	1		10/04/18 03:29	67-66-3	M5
Chloromethane	ND	ug/kg	5.9	1		10/04/18 03:29	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	5.9	1		10/04/18 03:29	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-3-4-6 **Lab ID: 50206354003** Collected: 09/24/18 18:40 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/kg	5.9	1		10/04/18 03:29	106-43-4	M5
Dibromochloromethane	ND	ug/kg	5.9	1		10/04/18 03:29	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	1		10/04/18 03:29	106-93-4	M5
Dibromomethane	ND	ug/kg	5.9	1		10/04/18 03:29	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	5.9	1		10/04/18 03:29	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	5.9	1		10/04/18 03:29	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	5.9	1		10/04/18 03:29	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	118	1		10/04/18 03:29	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	5.9	1		10/04/18 03:29	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	5.9	1		10/04/18 03:29	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	5.9	1		10/04/18 03:29	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	5.9	1		10/04/18 03:29	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1		10/04/18 03:29	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1		10/04/18 03:29	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	5.9	1		10/04/18 03:29	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	5.9	1		10/04/18 03:29	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	5.9	1		10/04/18 03:29	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	5.9	1		10/04/18 03:29	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	5.9	1		10/04/18 03:29	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1		10/04/18 03:29	10061-02-6	M5
Ethylbenzene	ND	ug/kg	5.9	1		10/04/18 03:29	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	118	1		10/04/18 03:29	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	1		10/04/18 03:29	87-68-3	M5
n-Hexane	ND	ug/kg	5.9	1		10/04/18 03:29	110-54-3	M5
2-Hexanone	ND	ug/kg	118	1		10/04/18 03:29	591-78-6	M5
Iodomethane	ND	ug/kg	118	1		10/04/18 03:29	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1		10/04/18 03:29	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	5.9	1		10/04/18 03:29	99-87-6	M5
Methylene Chloride	ND	ug/kg	23.7	1		10/04/18 03:29	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.6	1		10/04/18 03:29	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	5.9	1		10/04/18 03:29	1634-04-4	M5
Naphthalene	ND	ug/kg	5.9	1		10/04/18 03:29	91-20-3	M5
n-Propylbenzene	ND	ug/kg	5.9	1		10/04/18 03:29	103-65-1	M5
Styrene	ND	ug/kg	5.9	1		10/04/18 03:29	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	1		10/04/18 03:29	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1		10/04/18 03:29	79-34-5	M5
Tetrachloroethene	ND	ug/kg	5.9	1		10/04/18 03:29	127-18-4	M5
Toluene	ND	ug/kg	5.9	1		10/04/18 03:29	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	1		10/04/18 03:29	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1		10/04/18 03:29	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	5.9	1		10/04/18 03:29	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	5.9	1		10/04/18 03:29	79-00-5	M5
Trichloroethene	ND	ug/kg	5.9	1		10/04/18 03:29	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	5.9	1		10/04/18 03:29	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	5.9	1		10/04/18 03:29	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1		10/04/18 03:29	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-3-4-6 **Lab ID: 50206354003** Collected: 09/24/18 18:40 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1		10/04/18 03:29	108-67-8	M5
Vinyl acetate	ND	ug/kg	118	1		10/04/18 03:29	108-05-4	M5
Vinyl chloride	ND	ug/kg	5.9	1		10/04/18 03:29	75-01-4	M5
Xylene (Total)	ND	ug/kg	11.8	1		10/04/18 03:29	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	111	%.	80-127	1		10/04/18 03:29	1868-53-7	M5
Toluene-d8 (S)	102	%.	72-136	1		10/04/18 03:29	2037-26-5	M5
4-Bromofluorobenzene (S)	100	%.	57-130	1		10/04/18 03:29	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**22.5**	%	0.10	1		09/27/18 10:09		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-4-2-4 **Lab ID: 50206354004** Collected: 09/24/18 18:20 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**25.0**	mg/kg	1.2	1	09/27/18 06:26	09/27/18 17:38	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	83-32-9	
Acenaphthylene	ND	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	208-96-8	
Anthracene	ND	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	120-12-7	
Benzo(a)anthracene	**6.4**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	56-55-3	
Benzo(a)pyrene	**7.9**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	50-32-8	
Benzo(b)fluoranthene	**15.0**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	205-99-2	
Benzo(g,h,i)perylene	**8.5**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	191-24-2	
Benzo(k)fluoranthene	**11.0**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	207-08-9	
Chrysene	**13.9**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	53-70-3	
Fluoranthene	**28.0**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	206-44-0	
Fluorene	ND	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**7.6**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	91-57-6	
Naphthalene	**11.0**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	91-20-3	
Phenanthrene	**12.7**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	85-01-8	
Pyrene	**20.9**	ug/kg	6.3	1	09/30/18 19:17	10/01/18 18:36	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	40-107	1	09/30/18 19:17	10/01/18 18:36	321-60-8	
p-Terphenyl-d14 (S)	55	%.	35-115	1	09/30/18 19:17	10/01/18 18:36	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	93.5	1		10/04/18 04:02	67-64-1	M5
Acrolein	ND	ug/kg	93.5	1		10/04/18 04:02	107-02-8	M5
Acrylonitrile	ND	ug/kg	93.5	1		10/04/18 04:02	107-13-1	M5
Benzene	ND	ug/kg	4.7	1		10/04/18 04:02	71-43-2	M5
Bromobenzene	ND	ug/kg	4.7	1		10/04/18 04:02	108-86-1	M5
Bromochloromethane	ND	ug/kg	4.7	1		10/04/18 04:02	74-97-5	M5
Bromodichloromethane	ND	ug/kg	4.7	1		10/04/18 04:02	75-27-4	M5
Bromoform	ND	ug/kg	4.7	1		10/04/18 04:02	75-25-2	M5
Bromomethane	ND	ug/kg	4.7	1		10/04/18 04:02	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	23.4	1		10/04/18 04:02	78-93-3	M5
n-Butylbenzene	ND	ug/kg	4.7	1		10/04/18 04:02	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	4.7	1		10/04/18 04:02	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	4.7	1		10/04/18 04:02	98-06-6	M5
Carbon disulfide	ND	ug/kg	9.4	1		10/04/18 04:02	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	4.7	1		10/04/18 04:02	56-23-5	M5
Chlorobenzene	ND	ug/kg	4.7	1		10/04/18 04:02	108-90-7	M5
Chloroethane	ND	ug/kg	4.7	1		10/04/18 04:02	75-00-3	M5
Chloroform	ND	ug/kg	4.7	1		10/04/18 04:02	67-66-3	M5
Chloromethane	ND	ug/kg	4.7	1		10/04/18 04:02	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	4.7	1		10/04/18 04:02	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-4-2-4 **Lab ID: 50206354004** Collected: 09/24/18 18:20 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/kg	4.7	1		10/04/18 04:02	106-43-4	M5
Dibromochloromethane	ND	ug/kg	4.7	1		10/04/18 04:02	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/04/18 04:02	106-93-4	M5
Dibromomethane	ND	ug/kg	4.7	1		10/04/18 04:02	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/04/18 04:02	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/04/18 04:02	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/04/18 04:02	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	93.5	1		10/04/18 04:02	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	4.7	1		10/04/18 04:02	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/04/18 04:02	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/04/18 04:02	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/04/18 04:02	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/04/18 04:02	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/04/18 04:02	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/04/18 04:02	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/04/18 04:02	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/04/18 04:02	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/04/18 04:02	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/04/18 04:02	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/04/18 04:02	10061-02-6	M5
Ethylbenzene	ND	ug/kg	4.7	1		10/04/18 04:02	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	93.5	1		10/04/18 04:02	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/04/18 04:02	87-68-3	M5
n-Hexane	ND	ug/kg	4.7	1		10/04/18 04:02	110-54-3	M5
2-Hexanone	ND	ug/kg	93.5	1		10/04/18 04:02	591-78-6	M5
Iodomethane	ND	ug/kg	93.5	1		10/04/18 04:02	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/04/18 04:02	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/04/18 04:02	99-87-6	M5
Methylene Chloride	ND	ug/kg	18.7	1		10/04/18 04:02	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.4	1		10/04/18 04:02	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/04/18 04:02	1634-04-4	M5
Naphthalene	ND	ug/kg	4.7	1		10/04/18 04:02	91-20-3	M5
n-Propylbenzene	ND	ug/kg	4.7	1		10/04/18 04:02	103-65-1	M5
Styrene	ND	ug/kg	4.7	1		10/04/18 04:02	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/04/18 04:02	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/04/18 04:02	79-34-5	M5
Tetrachloroethene	ND	ug/kg	4.7	1		10/04/18 04:02	127-18-4	M5
Toluene	ND	ug/kg	4.7	1		10/04/18 04:02	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/04/18 04:02	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/04/18 04:02	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/04/18 04:02	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/04/18 04:02	79-00-5	M5
Trichloroethene	ND	ug/kg	4.7	1		10/04/18 04:02	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/04/18 04:02	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/04/18 04:02	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/04/18 04:02	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-4-2-4 **Lab ID: 50206354004** Collected: 09/24/18 18:20 Received: 09/25/18 15:35 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/04/18 04:02	108-67-8	M5
Vinyl acetate	ND	ug/kg	93.5	1		10/04/18 04:02	108-05-4	M5
Vinyl chloride	ND	ug/kg	4.7	1		10/04/18 04:02	75-01-4	M5
Xylene (Total)	ND	ug/kg	9.4	1		10/04/18 04:02	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	111	%.	80-127	1		10/04/18 04:02	1868-53-7	M5
Toluene-d8 (S)	100	%.	72-136	1		10/04/18 04:02	2037-26-5	M5
4-Bromofluorobenzene (S)	99	%.	57-130	1		10/04/18 04:02	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**21.4**	%	0.10	1		09/27/18 11:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-1-GW-5-10 **Lab ID: 50206354005** Collected: 09/24/18 16:00 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	10/01/18 22:27	10/01/18 22:50	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	83-32-9	
Acenaphthylene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	208-96-8	
Anthracene	ND	ug/L	0.11	1	09/28/18 09:45	10/01/18 18:30	120-12-7	
Benzo(a)anthracene	**0.12**	ug/L	0.11	1	09/28/18 09:45	10/01/18 18:30	56-55-3	
Benzo(a)pyrene	**0.12**	ug/L	0.11	1	09/28/18 09:45	10/01/18 18:30	50-32-8	
Benzo(b)fluoranthene	**0.27**	ug/L	0.11	1	09/28/18 09:45	10/01/18 18:30	205-99-2	
Benzo(g,h,i)perylene	**0.14**	ug/L	0.11	1	09/28/18 09:45	10/01/18 18:30	191-24-2	
Benzo(k)fluoranthene	**0.12**	ug/L	0.11	1	09/28/18 09:45	10/01/18 18:30	207-08-9	
Chrysene	ND	ug/L	0.55	1	09/28/18 09:45	10/01/18 18:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	09/28/18 09:45	10/01/18 18:30	53-70-3	
Fluoranthene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	206-44-0	
Fluorene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	09/28/18 09:45	10/01/18 18:30	193-39-5	
1-Methylnaphthalene	**2.4**	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	90-12-0	N2
2-Methylnaphthalene	**3.9**	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	91-57-6	
Naphthalene	**1.9**	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	91-20-3	
Phenanthrene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	85-01-8	
Pyrene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 18:30	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	10-108	1	09/28/18 09:45	10/01/18 18:30	321-60-8	
p-Terphenyl-d14 (S)	101	%.	10-167	1	09/28/18 09:45	10/01/18 18:30	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/03/18 05:03	67-64-1	M5
Acrolein	ND	ug/L	50.0	1		10/03/18 05:03	107-02-8	M5
Acrylonitrile	ND	ug/L	100	1		10/03/18 05:03	107-13-1	M5
Benzene	ND	ug/L	5.0	1		10/03/18 05:03	71-43-2	M5
Bromobenzene	ND	ug/L	5.0	1		10/03/18 05:03	108-86-1	M5
Bromochloromethane	ND	ug/L	5.0	1		10/03/18 05:03	74-97-5	M5
Bromodichloromethane	ND	ug/L	5.0	1		10/03/18 05:03	75-27-4	M5
Bromoform	ND	ug/L	5.0	1		10/03/18 05:03	75-25-2	M5
Bromomethane	ND	ug/L	5.0	1		10/03/18 05:03	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	25.0	1		10/03/18 05:03	78-93-3	M5
n-Butylbenzene	**9.0**	ug/L	5.0	1		10/03/18 05:03	104-51-8	M5
sec-Butylbenzene	**5.7**	ug/L	5.0	1		10/03/18 05:03	135-98-8	M5
tert-Butylbenzene	ND	ug/L	5.0	1		10/03/18 05:03	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		10/03/18 05:03	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/18 05:03	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		10/03/18 05:03	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		10/03/18 05:03	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		10/03/18 05:03	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		10/03/18 05:03	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		10/03/18 05:03	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-1-GW-5-10 **Lab ID: 50206354005** Collected: 09/24/18 16:00 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	5.0	1		10/03/18 05:03	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		10/03/18 05:03	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/03/18 05:03	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		10/03/18 05:03	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:03	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:03	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:03	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/03/18 05:03	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/03/18 05:03	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/18 05:03	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/18 05:03	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/18 05:03	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/18 05:03	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/18 05:03	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/18 05:03	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		10/03/18 05:03	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		10/03/18 05:03	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		10/03/18 05:03	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/18 05:03	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/18 05:03	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1		10/03/18 05:03	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		10/03/18 05:03	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/03/18 05:03	87-68-3	M5
n-Hexane	**180**	ug/L	5.0	1		10/03/18 05:03	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		10/03/18 05:03	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		10/03/18 05:03	74-88-4	M5
Isopropylbenzene (Cumene)	**21.8**	ug/L	5.0	1		10/03/18 05:03	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	5.0	1		10/03/18 05:03	99-87-6	M5
Methylene Chloride	ND	ug/L	5.0	1		10/03/18 05:03	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/03/18 05:03	108-10-1	L2,M5
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/03/18 05:03	1634-04-4	M5
Naphthalene	ND	ug/L	5.0	1		10/03/18 05:03	91-20-3	M5
n-Propylbenzene	**38.8**	ug/L	5.0	1		10/03/18 05:03	103-65-1	M5
Styrene	ND	ug/L	5.0	1		10/03/18 05:03	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/18 05:03	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/18 05:03	79-34-5	L2,M5
Tetrachloroethene	ND	ug/L	5.0	1		10/03/18 05:03	127-18-4	M5
Toluene	ND	ug/L	5.0	1		10/03/18 05:03	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:03	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:03	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/18 05:03	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/18 05:03	79-00-5	M5
Trichloroethene	ND	ug/L	5.0	1		10/03/18 05:03	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/18 05:03	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/03/18 05:03	96-18-4	L2,M5
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/03/18 05:03	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/03/18 05:03	108-67-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-1-GW-5-10 **Lab ID: 50206354005** Collected: 09/24/18 16:00 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	50.0	1		10/03/18 05:03	108-05-4	M5
Vinyl chloride	ND	ug/L	2.0	1		10/03/18 05:03	75-01-4	M5
Xylene (Total)	ND	ug/L	10.0	1		10/03/18 05:03	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	97	%.	89-116	1		10/03/18 05:03	1868-53-7	M5
4-Bromofluorobenzene (S)	109	%.	85-111	1		10/03/18 05:03	460-00-4	M5
Toluene-d8 (S)	98	%.	87-110	1		10/03/18 05:03	2037-26-5	M5

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-2-GW-3.5-8.5 **Lab ID: 50206354006** Collected: 09/24/18 18:35 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	10/01/18 22:27	10/01/18 22:59	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	208-96-8	
Anthracene	**0.14**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:40	120-12-7	
Benzo(a)anthracene	**0.57**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:40	56-55-3	
Benzo(a)pyrene	**0.66**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:40	50-32-8	
Benzo(b)fluoranthene	**1.3**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:40	205-99-2	
Benzo(g,h,i)perylene	**0.62**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:40	191-24-2	
Benzo(k)fluoranthene	**0.60**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:40	207-08-9	
Chrysene	**0.93**	ug/L	0.50	1	09/28/18 09:45	10/01/18 18:40	218-01-9	
Dibenz(a,h)anthracene	**0.11**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:40	53-70-3	
Fluoranthene	**2.3**	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	206-44-0	
Fluorene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.44**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:40	193-39-5	
1-Methylnaphthalene	**9.2**	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	90-12-0	N2
2-Methylnaphthalene	**12.2**	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	91-57-6	
Naphthalene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	91-20-3	
Phenanthrene	**1.6**	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	85-01-8	
Pyrene	**2.1**	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:40	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52	%.	10-108	1	09/28/18 09:45	10/01/18 18:40	321-60-8	
p-Terphenyl-d14 (S)	88	%.	10-167	1	09/28/18 09:45	10/01/18 18:40	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/03/18 05:41	67-64-1	M5
Acrolein	ND	ug/L	50.0	1		10/03/18 05:41	107-02-8	M5
Acrylonitrile	ND	ug/L	100	1		10/03/18 05:41	107-13-1	M5
Benzene	ND	ug/L	5.0	1		10/03/18 05:41	71-43-2	M5
Bromobenzene	ND	ug/L	5.0	1		10/03/18 05:41	108-86-1	M5
Bromochloromethane	ND	ug/L	5.0	1		10/03/18 05:41	74-97-5	M5
Bromodichloromethane	ND	ug/L	5.0	1		10/03/18 05:41	75-27-4	M5
Bromoform	ND	ug/L	5.0	1		10/03/18 05:41	75-25-2	M5
Bromomethane	ND	ug/L	5.0	1		10/03/18 05:41	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	25.0	1		10/03/18 05:41	78-93-3	M5
n-Butylbenzene	ND	ug/L	5.0	1		10/03/18 05:41	104-51-8	M5
sec-Butylbenzene	ND	ug/L	5.0	1		10/03/18 05:41	135-98-8	M5
tert-Butylbenzene	ND	ug/L	5.0	1		10/03/18 05:41	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		10/03/18 05:41	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/18 05:41	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		10/03/18 05:41	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		10/03/18 05:41	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		10/03/18 05:41	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		10/03/18 05:41	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		10/03/18 05:41	95-49-8	M5

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-2-GW-3.5-8.5 **Lab ID: 50206354006** Collected: 09/24/18 18:35 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	5.0	1		10/03/18 05:41	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		10/03/18 05:41	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/03/18 05:41	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		10/03/18 05:41	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:41	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:41	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:41	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/03/18 05:41	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/03/18 05:41	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/18 05:41	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/18 05:41	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/18 05:41	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/18 05:41	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/18 05:41	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/18 05:41	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		10/03/18 05:41	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		10/03/18 05:41	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		10/03/18 05:41	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/18 05:41	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/18 05:41	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1		10/03/18 05:41	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		10/03/18 05:41	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/03/18 05:41	87-68-3	M5
n-Hexane	ND	ug/L	5.0	1		10/03/18 05:41	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		10/03/18 05:41	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		10/03/18 05:41	74-88-4	M5
Isopropylbenzene (Cumene)	**5.7**	ug/L	5.0	1		10/03/18 05:41	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	5.0	1		10/03/18 05:41	99-87-6	M5
Methylene Chloride	ND	ug/L	5.0	1		10/03/18 05:41	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/03/18 05:41	108-10-1	L2,M5
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/03/18 05:41	1634-04-4	M5
Naphthalene	ND	ug/L	5.0	1		10/03/18 05:41	91-20-3	M5
n-Propylbenzene	**11.1**	ug/L	5.0	1		10/03/18 05:41	103-65-1	M5
Styrene	ND	ug/L	5.0	1		10/03/18 05:41	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/18 05:41	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/18 05:41	79-34-5	L2,M5
Tetrachloroethene	ND	ug/L	5.0	1		10/03/18 05:41	127-18-4	M5
Toluene	ND	ug/L	5.0	1		10/03/18 05:41	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:41	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/03/18 05:41	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/18 05:41	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/18 05:41	79-00-5	M5
Trichloroethene	ND	ug/L	5.0	1		10/03/18 05:41	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/18 05:41	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/03/18 05:41	96-18-4	L2,M5
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/03/18 05:41	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/03/18 05:41	108-67-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-2-GW-3.5-8.5 **Lab ID: 50206354006** Collected: 09/24/18 18:35 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	50.0	1		10/03/18 05:41	108-05-4	M5
Vinyl chloride	ND	ug/L	2.0	1		10/03/18 05:41	75-01-4	M5
Xylene (Total)	ND	ug/L	10.0	1		10/03/18 05:41	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	97	%.	89-116	1		10/03/18 05:41	1868-53-7	M5
4-Bromofluorobenzene (S)	106	%.	85-111	1		10/03/18 05:41	460-00-4	M5
Toluene-d8 (S)	88	%.	87-110	1		10/03/18 05:41	2037-26-5	M5

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-3-GW-5-10 **Lab ID: 50206354007** Collected: 09/24/18 18:25 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	10/01/18 22:27	10/01/18 23:02	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	208-96-8	
Anthracene	ND	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:51	50-32-8	
Benzo(b)fluoranthene	**0.17**	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:51	207-08-9	
Chrysene	ND	ug/L	0.50	1	09/28/18 09:45	10/01/18 18:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:51	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	206-44-0	
Fluorene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	09/28/18 09:45	10/01/18 18:51	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	91-57-6	
Naphthalene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	85-01-8	
Pyrene	ND	ug/L	1.0	1	09/28/18 09:45	10/01/18 18:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	55	%.	10-108	1	09/28/18 09:45	10/01/18 18:51	321-60-8	
p-Terphenyl-d14 (S)	92	%.	10-167	1	09/28/18 09:45	10/01/18 18:51	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/04/18 04:18	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/04/18 04:18	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/04/18 04:18	107-13-1	
Benzene	ND	ug/L	5.0	1		10/04/18 04:18	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/04/18 04:18	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/04/18 04:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/18 04:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/18 04:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/18 04:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/04/18 04:18	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/04/18 04:18	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/04/18 04:18	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/04/18 04:18	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/04/18 04:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/18 04:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/18 04:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/18 04:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/18 04:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/18 04:18	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 04:18	95-49-8	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-3-GW-5-10 **Lab ID: 50206354007** Collected: 09/24/18 18:25 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 04:18	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/18 04:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/04/18 04:18	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/04/18 04:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/04/18 04:18	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/04/18 04:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/18 04:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/18 04:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/18 04:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 04:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 04:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 04:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/04/18 04:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 04:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/04/18 04:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 04:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 04:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/18 04:18	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/04/18 04:18	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/04/18 04:18	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/04/18 04:18	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/04/18 04:18	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/04/18 04:18	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/04/18 04:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/04/18 04:18	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/18 04:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/04/18 04:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/04/18 04:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/04/18 04:18	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/04/18 04:18	103-65-1	
Styrene	ND	ug/L	5.0	1		10/04/18 04:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 04:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 04:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/18 04:18	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/18 04:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/18 04:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/18 04:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/04/18 04:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/18 04:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/04/18 04:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 04:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 04:18	108-67-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-3-GW-5-10 **Lab ID: 50206354007** Collected: 09/24/18 18:25 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	50.0	1		10/04/18 04:18	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/04/18 04:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/04/18 04:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	89-116	1		10/04/18 04:18	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	85-111	1		10/04/18 04:18	460-00-4	
Toluene-d8 (S)	98	%.	87-110	1		10/04/18 04:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-4-GW-6-11 **Lab ID: 50206354008** Collected: 09/24/18 17:25 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	10/01/18 22:27	10/01/18 23:13	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	83-32-9	
Acenaphthylene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	208-96-8	
Anthracene	ND	ug/L	0.11	1	09/28/18 09:45	10/01/18 19:01	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	09/28/18 09:45	10/01/18 19:01	56-55-3	
Benzo(a)pyrene	**0.16**	ug/L	0.11	1	09/28/18 09:45	10/01/18 19:01	50-32-8	
Benzo(b)fluoranthene	**0.31**	ug/L	0.11	1	09/28/18 09:45	10/01/18 19:01	205-99-2	
Benzo(g,h,i)perylene	**0.20**	ug/L	0.11	1	09/28/18 09:45	10/01/18 19:01	191-24-2	
Benzo(k)fluoranthene	**0.13**	ug/L	0.11	1	09/28/18 09:45	10/01/18 19:01	207-08-9	
Chrysene	ND	ug/L	0.56	1	09/28/18 09:45	10/01/18 19:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	09/28/18 09:45	10/01/18 19:01	53-70-3	
Fluoranthene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	206-44-0	
Fluorene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.15**	ug/L	0.11	1	09/28/18 09:45	10/01/18 19:01	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	91-57-6	
Naphthalene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	91-20-3	
Phenanthrene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	85-01-8	
Pyrene	ND	ug/L	1.1	1	09/28/18 09:45	10/01/18 19:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	1	%.	10-108	1	09/28/18 09:45	10/01/18 19:01	321-60-8	H7,S0
p-Terphenyl-d14 (S)	2	%.	10-167	1	09/28/18 09:45	10/01/18 19:01	1718-51-0	H7,S0
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/04/18 04:56	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/04/18 04:56	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/04/18 04:56	107-13-1	
Benzene	ND	ug/L	5.0	1		10/04/18 04:56	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/04/18 04:56	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/04/18 04:56	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/18 04:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/18 04:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/18 04:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/04/18 04:56	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/04/18 04:56	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/04/18 04:56	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/04/18 04:56	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/04/18 04:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/18 04:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/18 04:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/18 04:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/18 04:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/18 04:56	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 04:56	95-49-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-4-GW-6-11 **Lab ID: 50206354008** Collected: 09/24/18 17:25 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	5.0	1		10/04/18 04:56	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/18 04:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/04/18 04:56	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/04/18 04:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/04/18 04:56	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/04/18 04:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/18 04:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/18 04:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/18 04:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 04:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/18 04:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 04:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/04/18 04:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/04/18 04:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/04/18 04:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 04:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/18 04:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/18 04:56	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/04/18 04:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/04/18 04:56	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/04/18 04:56	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/04/18 04:56	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/04/18 04:56	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/04/18 04:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/04/18 04:56	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/18 04:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/04/18 04:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/04/18 04:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/04/18 04:56	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/04/18 04:56	103-65-1	
Styrene	ND	ug/L	5.0	1		10/04/18 04:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 04:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/18 04:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/18 04:56	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/18 04:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/04/18 04:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/18 04:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/18 04:56	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/04/18 04:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/18 04:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/04/18 04:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 04:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/04/18 04:56	108-67-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-4-GW-6-11 **Lab ID: 50206354008** Collected: 09/24/18 17:25 Received: 09/25/18 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	50.0	1		10/04/18 04:56	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/04/18 04:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/04/18 04:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	89-116	1		10/04/18 04:56	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	85-111	1		10/04/18 04:56	460-00-4	
Toluene-d8 (S)	96	%.	87-110	1		10/04/18 04:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-2-4-6 **Lab ID: 50206354009** Collected: 09/24/18 17:15 Received: 09/26/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	4100	50		10/03/18 19:06	67-64-1	M5
Acrolein	ND	ug/kg	4100	50		10/03/18 19:06	107-02-8	M5
Acrylonitrile	ND	ug/kg	4100	50		10/03/18 19:06	107-13-1	M5
Benzene	ND	ug/kg	205	50		10/03/18 19:06	71-43-2	1d,D3, M5
Bromobenzene	ND	ug/kg	205	50		10/03/18 19:06	108-86-1	M5
Bromochloromethane	ND	ug/kg	205	50		10/03/18 19:06	74-97-5	M5
Bromodichloromethane	ND	ug/kg	205	50		10/03/18 19:06	75-27-4	M5
Bromoform	ND	ug/kg	205	50		10/03/18 19:06	75-25-2	M5
Bromomethane	ND	ug/kg	205	50		10/03/18 19:06	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	1030	50		10/03/18 19:06	78-93-3	M5
n-Butylbenzene	**1510**	ug/kg	205	50		10/03/18 19:06	104-51-8	M5
sec-Butylbenzene	**574**	ug/kg	205	50		10/03/18 19:06	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	205	50		10/03/18 19:06	98-06-6	M5
Carbon disulfide	ND	ug/kg	410	50		10/03/18 19:06	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	205	50		10/03/18 19:06	56-23-5	M5
Chlorobenzene	ND	ug/kg	205	50		10/03/18 19:06	108-90-7	M5
Chloroethane	ND	ug/kg	205	50		10/03/18 19:06	75-00-3	M5
Chloroform	ND	ug/kg	205	50		10/03/18 19:06	67-66-3	M5
Chloromethane	ND	ug/kg	205	50		10/03/18 19:06	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	205	50		10/03/18 19:06	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	205	50		10/03/18 19:06	106-43-4	M5
Dibromochloromethane	ND	ug/kg	205	50		10/03/18 19:06	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	205	50		10/03/18 19:06	106-93-4	M5
Dibromomethane	ND	ug/kg	205	50		10/03/18 19:06	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	205	50		10/03/18 19:06	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	205	50		10/03/18 19:06	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	205	50		10/03/18 19:06	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/kg	4100	50		10/03/18 19:06	110-57-6	M5
Dichlorodifluoromethane	ND	ug/kg	205	50		10/03/18 19:06	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	205	50		10/03/18 19:06	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	205	50		10/03/18 19:06	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	205	50		10/03/18 19:06	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	205	50		10/03/18 19:06	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	205	50		10/03/18 19:06	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	205	50		10/03/18 19:06	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	205	50		10/03/18 19:06	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	205	50		10/03/18 19:06	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	205	50		10/03/18 19:06	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	205	50		10/03/18 19:06	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	205	50		10/03/18 19:06	10061-02-6	M5
Ethylbenzene	ND	ug/kg	205	50		10/03/18 19:06	100-41-4	M5
Ethyl methacrylate	ND	ug/kg	4100	50		10/03/18 19:06	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/kg	205	50		10/03/18 19:06	87-68-3	M5
n-Hexane	**4290**	ug/kg	205	50		10/03/18 19:06	110-54-3	M5
2-Hexanone	ND	ug/kg	4100	50		10/03/18 19:06	591-78-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-2-4-6 **Lab ID: 50206354009** Collected: 09/24/18 17:15 Received: 09/26/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	ug/kg	4100	50		10/03/18 19:06	74-88-4	M5
Isopropylbenzene (Cumene)	**403**	ug/kg	205	50		10/03/18 19:06	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	205	50		10/03/18 19:06	99-87-6	M5
Methylene Chloride	ND	ug/kg	820	50		10/03/18 19:06	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1030	50		10/03/18 19:06	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/kg	205	50		10/03/18 19:06	1634-04-4	2d,M5
Naphthalene	ND	ug/kg	205	50		10/03/18 19:06	91-20-3	M5
n-Propylbenzene	**1030**	ug/kg	205	50		10/03/18 19:06	103-65-1	M5
Styrene	ND	ug/kg	205	50		10/03/18 19:06	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	205	50		10/03/18 19:06	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	205	50		10/03/18 19:06	79-34-5	M5
Tetrachloroethene	ND	ug/kg	205	50		10/03/18 19:06	127-18-4	M5
Toluene	ND	ug/kg	205	50		10/03/18 19:06	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	205	50		10/03/18 19:06	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	205	50		10/03/18 19:06	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	205	50		10/03/18 19:06	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	205	50		10/03/18 19:06	79-00-5	M5
Trichloroethene	ND	ug/kg	205	50		10/03/18 19:06	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	205	50		10/03/18 19:06	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/kg	205	50		10/03/18 19:06	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	205	50		10/03/18 19:06	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	205	50		10/03/18 19:06	108-67-8	M5
Vinyl acetate	ND	ug/kg	4100	50		10/03/18 19:06	108-05-4	M5
Vinyl chloride	ND	ug/kg	205	50		10/03/18 19:06	75-01-4	M5
Xylene (Total)	ND	ug/kg	410	50		10/03/18 19:06	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	79	%.	80-127	50		10/03/18 19:06	1868-53-7	M5,S5
Toluene-d8 (S)	122	%.	72-136	50		10/03/18 19:06	2037-26-5	M5
4-Bromofluorobenzene (S)	119	%.	57-130	50		10/03/18 19:06	460-00-4	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Sample: SB-2-4-6 **Lab ID: 50206817001** Collected: 09/24/18 17:15 Received: 10/02/18 12:10 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**20.0**	mg/kg	1.1	1	10/05/18 06:20	10/06/18 10:48	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**12.0**	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	83-32-9	
Acenaphthylene	**8.3**	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	208-96-8	
Anthracene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	207-08-9	
Chrysene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	53-70-3	
Fluoranthene	**7.9**	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	206-44-0	
Fluorene	**24.2**	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	193-39-5	
1-Methylnaphthalene	**1200**	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	90-12-0	N2
2-Methylnaphthalene	**1910**	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	91-57-6	
Naphthalene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	91-20-3	
Phenanthrene	**23.9**	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	85-01-8	
Pyrene	ND	ug/kg	6.3	1	10/05/18 10:50	10/05/18 16:28	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70	%.	40-107	1	10/05/18 10:50	10/05/18 16:28	321-60-8	
p-Terphenyl-d14 (S)	76	%.	35-115	1	10/05/18 10:50	10/05/18 16:28	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.9**	%	0.10	1		10/03/18 10:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 463492 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50206354001, 50206354003, 50206354004

METHOD BLANK: 2139021 Matrix: Solid
Associated Lab Samples: 50206354001, 50206354003, 50206354004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	09/27/18 17:06	

LABORATORY CONTROL SAMPLE: 2139022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	46.9	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2139023 2139024

Parameter	Units	50206155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	82.7	701	689	741	734	94	94	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464724 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50206817001

METHOD BLANK: 2145057 Matrix: Solid
Associated Lab Samples: 50206817001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	10/06/18 09:51	

LABORATORY CONTROL SAMPLE: 2145058

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	46.2	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2145059 2145060

Parameter	Units	50206863001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	ND	47.6	49.7	60.9	65.2	97	102	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464290 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 50206354005, 50206354006, 50206354007, 50206354008

METHOD BLANK: 2143197 Matrix: Water
Associated Lab Samples: 50206354005, 50206354006, 50206354007, 50206354008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	ND	10.0	10/01/18 22:48	

LABORATORY CONTROL SAMPLE: 2143198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	1000	968	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2143199 2143200

Parameter	Units	50206354005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	ND	1000	1000	888	867	89	87	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464466 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50206354005, 50206354006

METHOD BLANK: 2143966 Matrix: Water
Associated Lab Samples: 50206354005, 50206354006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/02/18 22:41	M5
1,1,1-Trichloroethane	ug/L	ND	5.0	10/02/18 22:41	M5
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/02/18 22:41	M5
1,1,2-Trichloroethane	ug/L	ND	5.0	10/02/18 22:41	M5
1,1-Dichloroethane	ug/L	ND	5.0	10/02/18 22:41	M5
1,1-Dichloroethene	ug/L	ND	5.0	10/02/18 22:41	M5
1,1-Dichloropropene	ug/L	ND	5.0	10/02/18 22:41	M5
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/02/18 22:41	M5
1,2,3-Trichloropropane	ug/L	ND	5.0	10/02/18 22:41	M5
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/02/18 22:41	M5
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/02/18 22:41	M5
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/02/18 22:41	M5
1,2-Dichlorobenzene	ug/L	ND	5.0	10/02/18 22:41	M5
1,2-Dichloroethane	ug/L	ND	5.0	10/02/18 22:41	M5
1,2-Dichloropropane	ug/L	ND	5.0	10/02/18 22:41	M5
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/02/18 22:41	M5
1,3-Dichlorobenzene	ug/L	ND	5.0	10/02/18 22:41	M5
1,3-Dichloropropane	ug/L	ND	5.0	10/02/18 22:41	M5
1,4-Dichlorobenzene	ug/L	ND	5.0	10/02/18 22:41	M5
2,2-Dichloropropane	ug/L	ND	5.0	10/02/18 22:41	M5
2-Butanone (MEK)	ug/L	ND	25.0	10/02/18 22:41	M5
2-Chlorotoluene	ug/L	ND	5.0	10/02/18 22:41	M5
2-Hexanone	ug/L	ND	25.0	10/02/18 22:41	M5
4-Chlorotoluene	ug/L	ND	5.0	10/02/18 22:41	M5
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/02/18 22:41	M5
Acetone	ug/L	ND	100	10/02/18 22:41	M5
Acrolein	ug/L	ND	50.0	10/02/18 22:41	M5
Acrylonitrile	ug/L	ND	100	10/02/18 22:41	M5
Benzene	ug/L	ND	5.0	10/02/18 22:41	M5
Bromobenzene	ug/L	ND	5.0	10/02/18 22:41	M5
Bromochloromethane	ug/L	ND	5.0	10/02/18 22:41	M5
Bromodichloromethane	ug/L	ND	5.0	10/02/18 22:41	M5
Bromoform	ug/L	ND	5.0	10/02/18 22:41	M5
Bromomethane	ug/L	ND	5.0	10/02/18 22:41	M5
Carbon disulfide	ug/L	ND	10.0	10/02/18 22:41	M5
Carbon tetrachloride	ug/L	ND	5.0	10/02/18 22:41	M5
Chlorobenzene	ug/L	ND	5.0	10/02/18 22:41	M5
Chloroethane	ug/L	ND	5.0	10/02/18 22:41	M5
Chloroform	ug/L	ND	5.0	10/02/18 22:41	M5
Chloromethane	ug/L	ND	5.0	10/02/18 22:41	M5
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/02/18 22:41	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

METHOD BLANK: 2143966 Matrix: Water
Associated Lab Samples: 50206354005, 50206354006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/02/18 22:41	M5
Dibromochloromethane	ug/L	ND	5.0	10/02/18 22:41	M5
Dibromomethane	ug/L	ND	5.0	10/02/18 22:41	M5
Dichlorodifluoromethane	ug/L	ND	5.0	10/02/18 22:41	M5
Ethyl methacrylate	ug/L	ND	100	10/02/18 22:41	M5
Ethylbenzene	ug/L	ND	5.0	10/02/18 22:41	M5
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/02/18 22:41	M5
Iodomethane	ug/L	ND	10.0	10/02/18 22:41	M5
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/02/18 22:41	M5
Methyl-tert-butyl ether	ug/L	ND	4.0	10/02/18 22:41	M5
Methylene Chloride	ug/L	ND	5.0	10/02/18 22:41	M5
n-Butylbenzene	ug/L	ND	5.0	10/02/18 22:41	M5
n-Hexane	ug/L	ND	5.0	10/02/18 22:41	M5
n-Propylbenzene	ug/L	ND	5.0	10/02/18 22:41	M5
Naphthalene	ug/L	ND	5.0	10/02/18 22:41	M5
p-Isopropyltoluene	ug/L	ND	5.0	10/02/18 22:41	M5
sec-Butylbenzene	ug/L	ND	5.0	10/02/18 22:41	M5
Styrene	ug/L	ND	5.0	10/02/18 22:41	M5
tert-Butylbenzene	ug/L	ND	5.0	10/02/18 22:41	M5
Tetrachloroethene	ug/L	ND	5.0	10/02/18 22:41	M5
Toluene	ug/L	ND	5.0	10/02/18 22:41	M5
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/02/18 22:41	M5
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/02/18 22:41	M5
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/02/18 22:41	M5
Trichloroethene	ug/L	ND	5.0	10/02/18 22:41	M5
Trichlorofluoromethane	ug/L	ND	5.0	10/02/18 22:41	M5
Vinyl acetate	ug/L	ND	50.0	10/02/18 22:41	M5
Vinyl chloride	ug/L	ND	2.0	10/02/18 22:41	M5
Xylene (Total)	ug/L	ND	10.0	10/02/18 22:41	M5
4-Bromofluorobenzene (S)	%.	99	85-111	10/02/18 22:41	M5
Dibromofluoromethane (S)	%.	107	89-116	10/02/18 22:41	M5
Toluene-d8 (S)	%.	89	87-110	10/02/18 22:41	M5

LABORATORY CONTROL SAMPLE: 2143967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.3	93	80-120	M5
1,1,1-Trichloroethane	ug/L	50	48.8	98	74-126	M5
1,1,2,2-Tetrachloroethane	ug/L	50	35.3	71	73-117	L2,M5
1,1,2-Trichloroethane	ug/L	50	42.2	84	74-119	M5
1,1-Dichloroethane	ug/L	50	43.1	86	72-119	M5
1,1-Dichloroethene	ug/L	50	49.0	98	72-123	M5
1,1-Dichloropropene	ug/L	50	47.3	95	77-125	M5
1,2,3-Trichlorobenzene	ug/L	50	40.6	81	74-125	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2143967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	39.1	78	82-121	L2,M5
1,2,4-Trichlorobenzene	ug/L	50	42.3	85	70-125	M5
1,2,4-Trimethylbenzene	ug/L	50	43.7	87	76-118	M5
1,2-Dibromoethane (EDB)	ug/L	50	45.9	92	80-120	M5
1,2-Dichlorobenzene	ug/L	50	43.0	86	77-117	M5
1,2-Dichloroethane	ug/L	50	44.5	89	69-122	M5
1,2-Dichloropropane	ug/L	50	46.4	93	75-124	M5
1,3,5-Trimethylbenzene	ug/L	50	43.0	86	75-117	M5
1,3-Dichlorobenzene	ug/L	50	42.6	85	76-116	M5
1,3-Dichloropropane	ug/L	50	44.0	88	82-118	M5
1,4-Dichlorobenzene	ug/L	50	40.7	81	74-115	M5
2,2-Dichloropropane	ug/L	50	46.0	92	51-133	M5
2-Butanone (MEK)	ug/L	250	187	75	72-147	M5
2-Chlorotoluene	ug/L	50	43.6	87	73-113	M5
2-Hexanone	ug/L	250	179	72	71-132	M5
4-Chlorotoluene	ug/L	50	43.5	87	78-118	M5
4-Methyl-2-pentanone (MIBK)	ug/L	250	189	76	89-128	L2,M5
Acetone	ug/L	250	202	81	46-170	M5
Acrolein	ug/L	1000	729	73	13-200	M5
Acrylonitrile	ug/L	200	158	79	65-130	M5
Benzene	ug/L	50	47.1	94	78-117	M5
Bromobenzene	ug/L	50	44.4	89	66-126	M5
Bromochloromethane	ug/L	50	43.9	88	76-120	M5
Bromodichloromethane	ug/L	50	44.9	90	76-120	M5
Bromoform	ug/L	50	39.2	78	70-124	M5
Bromomethane	ug/L	50	37.9	76	29-181	M5
Carbon disulfide	ug/L	50	45.4	91	66-123	M5
Carbon tetrachloride	ug/L	50	48.2	96	73-132	M5
Chlorobenzene	ug/L	50	44.4	89	79-112	M5
Chloroethane	ug/L	50	40.7	81	59-156	M5
Chloroform	ug/L	50	45.6	91	76-118	M5
Chloromethane	ug/L	50	43.0	86	45-142	M5
cis-1,2-Dichloroethene	ug/L	50	48.9	98	75-117	M5
cis-1,3-Dichloropropene	ug/L	50	45.1	90	77-120	M5
Dibromochloromethane	ug/L	50	45.6	91	78-123	M5
Dibromomethane	ug/L	50	46.3	93	78-122	M5
Dichlorodifluoromethane	ug/L	50	34.2	68	41-168	M5
Ethyl methacrylate	ug/L	200	181	91	75-128	M5
Ethylbenzene	ug/L	50	46.0	92	80-118	M5
Hexachloro-1,3-butadiene	ug/L	50	46.1	92	73-125	M5
Iodomethane	ug/L	100	107	107	35-174	M5
Isopropylbenzene (Cumene)	ug/L	50	48.1	96	81-117	M5
Methyl-tert-butyl ether	ug/L	50	49.5	99	71-124	M5
Methylene Chloride	ug/L	50	50.1	100	59-136	M5
n-Butylbenzene	ug/L	50	40.2	80	72-118	M5
n-Hexane	ug/L	50	49.3	99	60-128	M5
n-Propylbenzene	ug/L	50	43.5	87	75-120	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2143967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	35.4	71	67-126	M5
p-Isopropyltoluene	ug/L	50	42.8	86	75-115	M5
sec-Butylbenzene	ug/L	50	43.9	88	76-120	M5
Styrene	ug/L	50	44.8	90	74-121	M5
tert-Butylbenzene	ug/L	50	32.6	65	55-109	M5
Tetrachloroethene	ug/L	50	46.0	92	76-116	M5
Toluene	ug/L	50	45.4	91	77-115	M5
trans-1,2-Dichloroethene	ug/L	50	48.3	97	75-121	M5
trans-1,3-Dichloropropene	ug/L	50	44.0	88	77-121	M5
trans-1,4-Dichloro-2-butene	ug/L	200	160	80	42-128	M5
Trichloroethene	ug/L	50	48.4	97	76-120	M5
Trichlorofluoromethane	ug/L	50	42.0	84	81-141	M5
Vinyl acetate	ug/L	200	150	75	67-131	M5
Vinyl chloride	ug/L	50	41.6	83	64-155	M5
Xylene (Total)	ug/L	150	140	93	78-118	M5
4-Bromofluorobenzene (S)	%.			107	85-111	M5
Dibromofluoromethane (S)	%.			96	89-116	M5
Toluene-d8 (S)	%.			93	87-110	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464701 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50206354007, 50206354008

METHOD BLANK: 2144950 Matrix: Water
Associated Lab Samples: 50206354007, 50206354008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1,1-Trichloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1-Dichloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,1-Dichloroethene	ug/L	ND	5.0	10/03/18 21:56	
1,1-Dichloropropene	ug/L	ND	5.0	10/03/18 21:56	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
1,2,3-Trichloropropane	ug/L	ND	5.0	10/03/18 21:56	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/03/18 21:56	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/03/18 21:56	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
1,2-Dichloroethane	ug/L	ND	5.0	10/03/18 21:56	
1,2-Dichloropropane	ug/L	ND	5.0	10/03/18 21:56	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/03/18 21:56	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
1,3-Dichloropropane	ug/L	ND	5.0	10/03/18 21:56	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
2,2-Dichloropropane	ug/L	ND	5.0	10/03/18 21:56	
2-Butanone (MEK)	ug/L	ND	25.0	10/03/18 21:56	
2-Chlorotoluene	ug/L	ND	5.0	10/03/18 21:56	
2-Hexanone	ug/L	ND	25.0	10/03/18 21:56	
4-Chlorotoluene	ug/L	ND	5.0	10/03/18 21:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/03/18 21:56	
Acetone	ug/L	ND	100	10/03/18 21:56	
Acrolein	ug/L	ND	50.0	10/03/18 21:56	
Acrylonitrile	ug/L	ND	100	10/03/18 21:56	
Benzene	ug/L	ND	5.0	10/03/18 21:56	
Bromobenzene	ug/L	ND	5.0	10/03/18 21:56	
Bromochloromethane	ug/L	ND	5.0	10/03/18 21:56	
Bromodichloromethane	ug/L	ND	5.0	10/03/18 21:56	
Bromoform	ug/L	ND	5.0	10/03/18 21:56	
Bromomethane	ug/L	ND	5.0	10/03/18 21:56	
Carbon disulfide	ug/L	ND	10.0	10/03/18 21:56	
Carbon tetrachloride	ug/L	ND	5.0	10/03/18 21:56	
Chlorobenzene	ug/L	ND	5.0	10/03/18 21:56	
Chloroethane	ug/L	ND	5.0	10/03/18 21:56	
Chloroform	ug/L	ND	5.0	10/03/18 21:56	
Chloromethane	ug/L	ND	5.0	10/03/18 21:56	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/03/18 21:56	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

METHOD BLANK: 2144950 Matrix: Water
Associated Lab Samples: 50206354007, 50206354008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/03/18 21:56	
Dibromochloromethane	ug/L	ND	5.0	10/03/18 21:56	
Dibromomethane	ug/L	ND	5.0	10/03/18 21:56	
Dichlorodifluoromethane	ug/L	ND	5.0	10/03/18 21:56	
Ethyl methacrylate	ug/L	ND	100	10/03/18 21:56	
Ethylbenzene	ug/L	ND	5.0	10/03/18 21:56	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/03/18 21:56	
Iodomethane	ug/L	ND	10.0	10/03/18 21:56	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/03/18 21:56	
Methyl-tert-butyl ether	ug/L	ND	4.0	10/03/18 21:56	
Methylene Chloride	ug/L	ND	5.0	10/03/18 21:56	
n-Butylbenzene	ug/L	ND	5.0	10/03/18 21:56	
n-Hexane	ug/L	ND	5.0	10/03/18 21:56	
n-Propylbenzene	ug/L	ND	5.0	10/03/18 21:56	
Naphthalene	ug/L	ND	5.0	10/03/18 21:56	
p-Isopropyltoluene	ug/L	ND	5.0	10/03/18 21:56	
sec-Butylbenzene	ug/L	ND	5.0	10/03/18 21:56	
Styrene	ug/L	ND	5.0	10/03/18 21:56	
tert-Butylbenzene	ug/L	ND	5.0	10/03/18 21:56	
Tetrachloroethene	ug/L	ND	5.0	10/03/18 21:56	
Toluene	ug/L	ND	5.0	10/03/18 21:56	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/03/18 21:56	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/03/18 21:56	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/03/18 21:56	
Trichloroethene	ug/L	ND	5.0	10/03/18 21:56	
Trichlorofluoromethane	ug/L	ND	5.0	10/03/18 21:56	
Vinyl acetate	ug/L	ND	50.0	10/03/18 21:56	
Vinyl chloride	ug/L	ND	2.0	10/03/18 21:56	
Xylene (Total)	ug/L	ND	10.0	10/03/18 21:56	
4-Bromofluorobenzene (S)	%.	95	85-111	10/03/18 21:56	
Dibromofluoromethane (S)	%.	103	89-116	10/03/18 21:56	
Toluene-d8 (S)	%.	95	87-110	10/03/18 21:56	

LABORATORY CONTROL SAMPLE: 2144951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.9	94	80-120	
1,1,1-Trichloroethane	ug/L	50	48.5	97	74-126	
1,1,2,2-Tetrachloroethane	ug/L	50	41.8	84	73-117	
1,1,2-Trichloroethane	ug/L	50	46.4	93	74-119	
1,1-Dichloroethane	ug/L	50	42.9	86	72-119	
1,1-Dichloroethene	ug/L	50	46.8	94	72-123	
1,1-Dichloropropene	ug/L	50	46.8	94	77-125	
1,2,3-Trichlorobenzene	ug/L	50	47.9	96	74-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2144951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	45.4	91	82-121	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	70-125	
1,2,4-Trimethylbenzene	ug/L	50	46.9	94	76-118	
1,2-Dibromoethane (EDB)	ug/L	50	47.9	96	80-120	
1,2-Dichlorobenzene	ug/L	50	46.3	93	77-117	
1,2-Dichloroethane	ug/L	50	43.9	88	69-122	
1,2-Dichloropropane	ug/L	50	45.6	91	75-124	
1,3,5-Trimethylbenzene	ug/L	50	49.0	98	75-117	
1,3-Dichlorobenzene	ug/L	50	46.3	93	76-116	
1,3-Dichloropropane	ug/L	50	46.2	92	82-118	
1,4-Dichlorobenzene	ug/L	50	44.1	88	74-115	
2,2-Dichloropropane	ug/L	50	44.2	88	51-133	
2-Butanone (MEK)	ug/L	250	227	91	72-147	
2-Chlorotoluene	ug/L	50	45.4	91	73-113	
2-Hexanone	ug/L	250	235	94	71-132	
4-Chlorotoluene	ug/L	50	47.9	96	78-118	
4-Methyl-2-pentanone (MIBK)	ug/L	250	238	95	89-128	
Acetone	ug/L	250	195	78	46-170	
Acrolein	ug/L	1000	1040	104	13-200	
Acrylonitrile	ug/L	200	160	80	65-130	
Benzene	ug/L	50	44.4	89	78-117	
Bromobenzene	ug/L	50	43.9	88	66-126	
Bromochloromethane	ug/L	50	39.9	80	76-120	
Bromodichloromethane	ug/L	50	44.5	89	76-120	
Bromoform	ug/L	50	44.2	88	70-124	
Bromomethane	ug/L	50	51.9	104	29-181	
Carbon disulfide	ug/L	50	41.3	83	66-123	
Carbon tetrachloride	ug/L	50	48.1	96	73-132	
Chlorobenzene	ug/L	50	46.9	94	79-112	
Chloroethane	ug/L	50	54.2	108	59-156	
Chloroform	ug/L	50	43.4	87	76-118	
Chloromethane	ug/L	50	58.1	116	45-142	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	75-117	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	77-120	
Dibromochloromethane	ug/L	50	47.0	94	78-123	
Dibromomethane	ug/L	50	46.4	93	78-122	
Dichlorodifluoromethane	ug/L	50	58.3	117	41-168	
Ethyl methacrylate	ug/L	200	204	102	75-128	
Ethylbenzene	ug/L	50	50.7	101	80-118	
Hexachloro-1,3-butadiene	ug/L	50	49.5	99	73-125	
Iodomethane	ug/L	100	95.9	96	35-174	
Isopropylbenzene (Cumene)	ug/L	50	50.4	101	81-117	
Methyl-tert-butyl ether	ug/L	50	46.9	94	71-124	
Methylene Chloride	ug/L	50	45.0	90	59-136	
n-Butylbenzene	ug/L	50	46.2	92	72-118	
n-Hexane	ug/L	50	51.9	104	60-128	
n-Propylbenzene	ug/L	50	47.3	95	75-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2144951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	45.3	91	67-126	
p-Isopropyltoluene	ug/L	50	48.6	97	75-115	
sec-Butylbenzene	ug/L	50	47.1	94	76-120	
Styrene	ug/L	50	48.3	97	74-121	
tert-Butylbenzene	ug/L	50	36.6	73	55-109	
Tetrachloroethene	ug/L	50	48.7	97	76-116	
Toluene	ug/L	50	45.2	90	77-115	
trans-1,2-Dichloroethene	ug/L	50	46.1	92	75-121	
trans-1,3-Dichloropropene	ug/L	50	46.5	93	77-121	
trans-1,4-Dichloro-2-butene	ug/L	200	166	83	42-128	
Trichloroethene	ug/L	50	46.5	93	76-120	
Trichlorofluoromethane	ug/L	50	50.3	101	81-141	
Vinyl acetate	ug/L	200	200	100	67-131	
Vinyl chloride	ug/L	50	52.7	105	64-155	
Xylene (Total)	ug/L	150	151	101	78-118	
4-Bromofluorobenzene (S)	%.			102	85-111	
Dibromofluoromethane (S)	%.			94	89-116	
Toluene-d8 (S)	%.			98	87-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144952 2144953

Parameter	Units	50206410007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50.9	50.6	102	101	48-138	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	52.1	53.4	104	107	50-141	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	44.7	47.4	89	95	52-131	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.6	51.0	103	102	53-131	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	46.6	47.7	93	95	51-130	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.1	48.5	98	97	51-138	1	20	
1,1-Dichloropropene	ug/L	ND	50	50	49.9	51.7	100	103	47-143	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	50.6	49.9	101	100	26-143	1	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	47.2	49.8	94	100	60-136	5	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50.3	49.3	101	99	20-142	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	49.5	49.2	99	98	19-148	1	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.0	52.1	104	104	57-134	0	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	48.9	49.8	98	100	30-142	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	47.4	49.1	95	98	46-139	4	20	
1,2-Dichloropropane	ug/L	ND	50	50	50.2	51.8	100	104	54-135	3	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	51.8	51.7	104	103	16-149	0	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	48.7	49.1	97	98	24-142	1	20	
1,3-Dichloropropane	ug/L	ND	50	50	50.8	50.7	102	101	59-134	0	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	46.8	46.7	93	93	24-140	0	20	
2,2-Dichloropropane	ug/L	ND	50	50	50.6	51.7	101	103	24-138	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	236	253	94	101	49-156	7	20	
2-Chlorotoluene	ug/L	ND	50	50	48.4	49.0	97	98	21-143	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144952 2144953

Parameter	Units	50206410007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	250	250	249	261	100	104	53-140	5	20	
4-Chlorotoluene	ug/L	ND	50	50	50.8	50.7	102	101	23-147	0	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	251	266	100	107	50-139	6	20	
Acetone	ug/L	ND	250	250	225	245	85	93	34-160	8	20	
Acrolein	ug/L	ND	1000	1000	1050	1130	105	112	30-178	7	20	
Acrylonitrile	ug/L	ND	200	200	173	184	86	92	54-136	6	20	
Benzene	ug/L	ND	50	50	48.0	48.9	96	98	50-135	2	20	
Bromobenzene	ug/L	ND	50	50	48.7	47.9	97	96	28-147	2	20	
Bromochloromethane	ug/L	ND	50	50	45.1	44.6	90	89	54-138	1	20	
Bromodichloromethane	ug/L	ND	50	50	48.4	50.1	97	100	50-135	3	20	
Bromoform	ug/L	ND	50	50	46.1	48.3	92	97	43-133	5	20	
Bromomethane	ug/L	ND	50	50	53.8	58.5	104	113	15-170	8	20	
Carbon disulfide	ug/L	ND	50	50	45.4	46.7	91	93	36-139	3	20	
Carbon tetrachloride	ug/L	ND	50	50	51.7	52.2	103	104	43-151	1	20	
Chlorobenzene	ug/L	ND	50	50	49.8	48.7	100	97	39-135	2	20	
Chloroethane	ug/L	ND	50	50	60.6	63.4	121	127	42-165	4	20	
Chloroform	ug/L	ND	50	50	47.2	48.8	94	98	52-134	3	20	
Chloromethane	ug/L	ND	50	50	60.9	71.5	122	143	33-146	16	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	50.3	52.4	101	105	48-133	4	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	52.8	52.2	106	104	46-131	1	20	
Dibromochloromethane	ug/L	ND	50	50	51.6	51.6	103	103	50-139	0	20	
Dibromomethane	ug/L	ND	50	50	49.7	51.9	99	104	55-137	4	20	
Dichlorodifluoromethane	ug/L	ND	50	50	60.2	62.5	120	125	29-178	4	20	
Ethyl methacrylate	ug/L	ND	200	200	222	225	111	113	58-136	2	20	
Ethylbenzene	ug/L	ND	50	50	54.5	53.0	109	106	31-147	3	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	49.6	49.7	99	99	10-158	0	20	
Iodomethane	ug/L	ND	100	100	105	111	97	103	17-173	6	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	54.3	53.3	109	107	25-151	2	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	50.2	52.8	100	106	51-142	5	20	
Methylene Chloride	ug/L	ND	50	50	50.2	52.9	100	106	41-142	5	20	
n-Butylbenzene	ug/L	ND	50	50	48.3	47.6	97	95	10-153	2	20	
n-Hexane	ug/L	ND	50	50	54.9	56.2	110	112	35-141	2	20	
n-Propylbenzene	ug/L	ND	50	50	50.4	51.1	101	102	16-153	1	20	
Naphthalene	ug/L	ND	50	50	46.5	48.4	93	97	40-135	4	20	
p-Isopropyltoluene	ug/L	ND	50	50	50.5	50.5	101	101	11-150	0	20	
sec-Butylbenzene	ug/L	ND	50	50	49.8	50.0	100	100	11-157	0	20	
Styrene	ug/L	ND	50	50	52.7	51.5	105	103	28-142	2	20	
tert-Butylbenzene	ug/L	ND	50	50	38.6	38.7	77	77	11-132	0	20	
Tetrachloroethene	ug/L	ND	50	50	51.3	49.8	103	100	34-140	3	20	
Toluene	ug/L	ND	50	50	48.8	48.2	97	96	43-134	1	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	48.8	49.9	98	100	51-135	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	51.3	51.2	103	102	44-133	0	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	193	195	97	98	12-138	1	20	
Trichloroethene	ug/L	ND	50	50	48.9	49.7	98	99	40-141	1	20	
Trichlorofluoromethane	ug/L	ND	50	50	57.0	57.4	114	115	56-162	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144952 2144953

Parameter	Units	50206410007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl acetate	ug/L	ND	200	200	211	224	105	112	11-134	6	20	
Vinyl chloride	ug/L	ND	50	50	54.7	57.1	109	114	46-164	4	20	
Xylene (Total)	ug/L	ND	150	150	162	160	108	107	29-145	2	20	
4-Bromofluorobenzene (S)	%.						103	103	85-111			
Dibromofluoromethane (S)	%.						96	98	89-116			
Toluene-d8 (S)	%.						99	98	87-110			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464679 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206354001, 50206354009

METHOD BLANK: 2144794 Matrix: Solid
Associated Lab Samples: 50206354001, 50206354009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,1-Dichloroethane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,1-Dichloroethene	ug/kg	ND	5.0	10/03/18 14:05	M5
1,1-Dichloropropene	ug/kg	ND	5.0	10/03/18 14:05	M5
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/03/18 14:05	M5
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
1,2-Dichloroethane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,2-Dichloropropane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
1,3-Dichloropropane	ug/kg	ND	5.0	10/03/18 14:05	M5
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
2,2-Dichloropropane	ug/kg	ND	5.0	10/03/18 14:05	M5
2-Butanone (MEK)	ug/kg	ND	25.0	10/03/18 14:05	M5
2-Chlorotoluene	ug/kg	ND	5.0	10/03/18 14:05	M5
2-Hexanone	ug/kg	ND	100	10/03/18 14:05	M5
4-Chlorotoluene	ug/kg	ND	5.0	10/03/18 14:05	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/03/18 14:05	M5
Acetone	ug/kg	ND	100	10/03/18 14:05	M5
Acrolein	ug/kg	ND	100	10/03/18 14:05	M5
Acrylonitrile	ug/kg	ND	100	10/03/18 14:05	M5
Benzene	ug/kg	ND	5.0	10/03/18 14:05	M5
Bromobenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
Bromochloromethane	ug/kg	ND	5.0	10/03/18 14:05	M5
Bromodichloromethane	ug/kg	ND	5.0	10/03/18 14:05	M5
Bromoform	ug/kg	ND	5.0	10/03/18 14:05	M5
Bromomethane	ug/kg	ND	5.0	10/03/18 14:05	M5
Carbon disulfide	ug/kg	ND	10.0	10/03/18 14:05	M5
Carbon tetrachloride	ug/kg	ND	5.0	10/03/18 14:05	M5
Chlorobenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
Chloroethane	ug/kg	ND	5.0	10/03/18 14:05	M5
Chloroform	ug/kg	ND	5.0	10/03/18 14:05	M5
Chloromethane	ug/kg	ND	5.0	10/03/18 14:05	M5
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/03/18 14:05	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

METHOD BLANK: 2144794 Matrix: Solid
Associated Lab Samples: 50206354001, 50206354009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/03/18 14:05	M5
Dibromochloromethane	ug/kg	ND	5.0	10/03/18 14:05	M5
Dibromomethane	ug/kg	ND	5.0	10/03/18 14:05	M5
Dichlorodifluoromethane	ug/kg	ND	5.0	10/03/18 14:05	M5
Ethyl methacrylate	ug/kg	ND	100	10/03/18 14:05	M5
Ethylbenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/03/18 14:05	M5
Iodomethane	ug/kg	ND	100	10/03/18 14:05	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/03/18 14:05	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/03/18 14:05	M5
Methylene Chloride	ug/kg	ND	20.0	10/03/18 14:05	M5
n-Butylbenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
n-Hexane	ug/kg	ND	5.0	10/03/18 14:05	M5
n-Propylbenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
Naphthalene	ug/kg	ND	5.0	10/03/18 14:05	M5
p-Isopropyltoluene	ug/kg	ND	5.0	10/03/18 14:05	M5
sec-Butylbenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
Styrene	ug/kg	ND	5.0	10/03/18 14:05	M5
tert-Butylbenzene	ug/kg	ND	5.0	10/03/18 14:05	M5
Tetrachloroethene	ug/kg	ND	5.0	10/03/18 14:05	M5
Toluene	ug/kg	ND	5.0	10/03/18 14:05	M5
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/03/18 14:05	M5
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/03/18 14:05	M5
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/03/18 14:05	M5
Trichloroethene	ug/kg	ND	5.0	10/03/18 14:05	M5
Trichlorofluoromethane	ug/kg	ND	5.0	10/03/18 14:05	M5
Vinyl acetate	ug/kg	ND	100	10/03/18 14:05	M5
Vinyl chloride	ug/kg	ND	5.0	10/03/18 14:05	M5
Xylene (Total)	ug/kg	ND	10.0	10/03/18 14:05	M5
4-Bromofluorobenzene (S)	%.	103	57-130	10/03/18 14:05	M5
Dibromofluoromethane (S)	%.	110	80-127	10/03/18 14:05	M5
Toluene-d8 (S)	%.	101	72-136	10/03/18 14:05	M5

LABORATORY CONTROL SAMPLE: 2144795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	44.7	89	80-119	M5
1,1,1-Trichloroethane	ug/kg	50	47.1	94	71-123	M5
1,1,2,2-Tetrachloroethane	ug/kg	50	51.4	103	74-121	M5
1,1,2-Trichloroethane	ug/kg	50	53.4	107	76-115	M5
1,1-Dichloroethane	ug/kg	50	41.6	83	70-117	M5
1,1-Dichloroethene	ug/kg	50	46.2	92	71-125	M5
1,1-Dichloropropene	ug/kg	50	46.3	93	72-122	M5
1,2,3-Trichlorobenzene	ug/kg	50	44.5	89	70-115	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2144795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	55.4	111	80-125	M5
1,2,4-Trichlorobenzene	ug/kg	50	45.1	90	63-119	M5
1,2,4-Trimethylbenzene	ug/kg	50	48.4	97	73-111	M5
1,2-Dibromoethane (EDB)	ug/kg	50	54.5	109	82-120	M5
1,2-Dichlorobenzene	ug/kg	50	47.6	95	79-110	M5
1,2-Dichloroethane	ug/kg	50	48.2	96	69-119	M5
1,2-Dichloropropane	ug/kg	50	47.4	95	76-120	M5
1,3,5-Trimethylbenzene	ug/kg	50	47.2	94	74-108	M5
1,3-Dichlorobenzene	ug/kg	50	45.5	91	74-109	M5
1,3-Dichloropropane	ug/kg	50	52.5	105	84-119	M5
1,4-Dichlorobenzene	ug/kg	50	44.2	88	74-109	M5
2,2-Dichloropropane	ug/kg	50	46.7	93	58-125	M5
2-Butanone (MEK)	ug/kg	250	257	103	57-183	M5
2-Chlorotoluene	ug/kg	50	48.6	97	74-107	M5
2-Hexanone	ug/kg	250	281	112	56-156	M5
4-Chlorotoluene	ug/kg	50	46.4	93	76-113	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	250	241	96	67-128	M5
Acetone	ug/kg	250	236	95	39-199	M5
Acrolein	ug/kg	1000	685	68	24-200	M5
Acrylonitrile	ug/kg	200	189	94	70-124	M5
Benzene	ug/kg	50	45.9	92	77-117	M5
Bromobenzene	ug/kg	50	47.4	95	74-110	M5
Bromochloromethane	ug/kg	50	45.3	91	68-122	M5
Bromodichloromethane	ug/kg	50	47.5	95	76-115	M5
Bromoform	ug/kg	50	42.3	85	69-125	M5
Bromomethane	ug/kg	50	45.5	91	30-174	M5
Carbon disulfide	ug/kg	50	41.9	84	64-122	M5
Carbon tetrachloride	ug/kg	50	46.3	93	70-126	M5
Chlorobenzene	ug/kg	50	45.2	90	77-111	M5
Chloroethane	ug/kg	50	44.8	90	50-149	M5
Chloroform	ug/kg	50	45.1	90	74-114	M5
Chloromethane	ug/kg	50	40.3	81	51-127	M5
cis-1,2-Dichloroethene	ug/kg	50	44.6	89	74-118	M5
cis-1,3-Dichloropropene	ug/kg	50	48.4	97	77-119	M5
Dibromochloromethane	ug/kg	50	44.6	89	82-120	M5
Dibromomethane	ug/kg	50	47.8	96	79-118	M5
Dichlorodifluoromethane	ug/kg	50	49.6	99	39-160	M5
Ethyl methacrylate	ug/kg	200	228	114	75-125	M5
Ethylbenzene	ug/kg	50	45.6	91	73-114	M5
Hexachloro-1,3-butadiene	ug/kg	50	43.5	87	66-119	M5
Iodomethane	ug/kg	100	110	110	72-140	M5
Isopropylbenzene (Cumene)	ug/kg	50	46.2	92	78-113	M5
Methyl-tert-butyl ether	ug/kg	50	54.0	108	75-119	M5
Methylene Chloride	ug/kg	50	47.7	95	45-153	M5
n-Butylbenzene	ug/kg	50	46.5	93	66-111	M5
n-Hexane	ug/kg	50	45.3	91	57-117	M5
n-Propylbenzene	ug/kg	50	46.0	92	74-112	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2144795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	48.8	98	70-115	M5
p-Isopropyltoluene	ug/kg	50	46.7	93	72-108	M5
sec-Butylbenzene	ug/kg	50	46.7	93	75-113	M5
Styrene	ug/kg	50	47.2	94	73-109	M5
tert-Butylbenzene	ug/kg	50	43.9	88	56-105	M5
Tetrachloroethene	ug/kg	50	42.3	85	72-117	M5
Toluene	ug/kg	50	47.5	95	77-111	M5
trans-1,2-Dichloroethene	ug/kg	50	42.4	85	73-121	M5
trans-1,3-Dichloropropene	ug/kg	50	47.4	95	76-121	M5
trans-1,4-Dichloro-2-butene	ug/kg	200	224	112	57-123	M5
Trichloroethene	ug/kg	50	47.9	96	73-119	M5
Trichlorofluoromethane	ug/kg	50	42.1	84	72-147	M5
Vinyl acetate	ug/kg	200	220	110	59-139	M5
Vinyl chloride	ug/kg	50	42.7	85	57-160	M5
Xylene (Total)	ug/kg	150	139	92	74-111	M5
4-Bromofluorobenzene (S)	%.			103	57-130	M5
Dibromofluoromethane (S)	%.			93	80-127	M5
Toluene-d8 (S)	%.			103	72-136	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464739 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50206354003, 50206354004

METHOD BLANK: 2145116 Matrix: Solid
Associated Lab Samples: 50206354003, 50206354004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,1-Dichloroethane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,1-Dichloroethene	ug/kg	ND	5.0	10/04/18 02:55	M5
1,1-Dichloropropene	ug/kg	ND	5.0	10/04/18 02:55	M5
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/04/18 02:55	M5
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
1,2-Dichloroethane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,2-Dichloropropane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
1,3-Dichloropropane	ug/kg	ND	5.0	10/04/18 02:55	M5
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
2,2-Dichloropropane	ug/kg	ND	5.0	10/04/18 02:55	M5
2-Butanone (MEK)	ug/kg	ND	25.0	10/04/18 02:55	M5
2-Chlorotoluene	ug/kg	ND	5.0	10/04/18 02:55	M5
2-Hexanone	ug/kg	ND	100	10/04/18 02:55	M5
4-Chlorotoluene	ug/kg	ND	5.0	10/04/18 02:55	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	10/04/18 02:55	M5
Acetone	ug/kg	ND	100	10/04/18 02:55	M5
Acrolein	ug/kg	ND	100	10/04/18 02:55	M5
Acrylonitrile	ug/kg	ND	100	10/04/18 02:55	M5
Benzene	ug/kg	ND	5.0	10/04/18 02:55	M5
Bromobenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
Bromochloromethane	ug/kg	ND	5.0	10/04/18 02:55	M5
Bromodichloromethane	ug/kg	ND	5.0	10/04/18 02:55	M5
Bromoform	ug/kg	ND	5.0	10/04/18 02:55	M5
Bromomethane	ug/kg	ND	5.0	10/04/18 02:55	M5
Carbon disulfide	ug/kg	ND	10.0	10/04/18 02:55	M5
Carbon tetrachloride	ug/kg	ND	5.0	10/04/18 02:55	M5
Chlorobenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
Chloroethane	ug/kg	ND	5.0	10/04/18 02:55	M5
Chloroform	ug/kg	ND	5.0	10/04/18 02:55	M5
Chloromethane	ug/kg	ND	5.0	10/04/18 02:55	M5
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/04/18 02:55	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

METHOD BLANK: 2145116 Matrix: Solid
Associated Lab Samples: 50206354003, 50206354004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/04/18 02:55	M5
Dibromochloromethane	ug/kg	ND	5.0	10/04/18 02:55	M5
Dibromomethane	ug/kg	ND	5.0	10/04/18 02:55	M5
Dichlorodifluoromethane	ug/kg	ND	5.0	10/04/18 02:55	M5
Ethyl methacrylate	ug/kg	ND	100	10/04/18 02:55	M5
Ethylbenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/04/18 02:55	M5
Iodomethane	ug/kg	ND	100	10/04/18 02:55	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/04/18 02:55	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/04/18 02:55	M5
Methylene Chloride	ug/kg	ND	20.0	10/04/18 02:55	M5
n-Butylbenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
n-Hexane	ug/kg	ND	5.0	10/04/18 02:55	M5
n-Propylbenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
Naphthalene	ug/kg	ND	5.0	10/04/18 02:55	M5
p-Isopropyltoluene	ug/kg	ND	5.0	10/04/18 02:55	M5
sec-Butylbenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
Styrene	ug/kg	ND	5.0	10/04/18 02:55	M5
tert-Butylbenzene	ug/kg	ND	5.0	10/04/18 02:55	M5
Tetrachloroethene	ug/kg	ND	5.0	10/04/18 02:55	M5
Toluene	ug/kg	ND	5.0	10/04/18 02:55	M5
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/04/18 02:55	M5
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/04/18 02:55	M5
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	10/04/18 02:55	M5
Trichloroethene	ug/kg	ND	5.0	10/04/18 02:55	M5
Trichlorofluoromethane	ug/kg	ND	5.0	10/04/18 02:55	M5
Vinyl acetate	ug/kg	ND	100	10/04/18 02:55	M5
Vinyl chloride	ug/kg	ND	5.0	10/04/18 02:55	M5
Xylene (Total)	ug/kg	ND	10.0	10/04/18 02:55	M5
4-Bromofluorobenzene (S)	%.	102	57-130	10/04/18 02:55	M5
Dibromofluoromethane (S)	%.	107	80-127	10/04/18 02:55	M5
Toluene-d8 (S)	%.	102	72-136	10/04/18 02:55	M5

LABORATORY CONTROL SAMPLE: 2145117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	44.3	89	80-119	M5
1,1,1-Trichloroethane	ug/kg	50	46.4	93	71-123	M5
1,1,2,2-Tetrachloroethane	ug/kg	50	54.2	108	74-121	M5
1,1,2-Trichloroethane	ug/kg	50	53.5	107	76-115	M5
1,1-Dichloroethane	ug/kg	50	41.8	84	70-117	M5
1,1-Dichloroethene	ug/kg	50	44.7	89	71-125	M5
1,1-Dichloropropene	ug/kg	50	45.4	91	72-122	M5
1,2,3-Trichlorobenzene	ug/kg	50	41.7	83	70-115	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2145117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	59.9	120	80-125	M5
1,2,4-Trichlorobenzene	ug/kg	50	39.6	79	63-119	M5
1,2,4-Trimethylbenzene	ug/kg	50	44.6	89	73-111	M5
1,2-Dibromoethane (EDB)	ug/kg	50	55.2	110	82-120	M5
1,2-Dichlorobenzene	ug/kg	50	45.1	90	79-110	M5
1,2-Dichloroethane	ug/kg	50	49.5	99	69-119	M5
1,2-Dichloropropane	ug/kg	50	50.3	101	76-120	M5
1,3,5-Trimethylbenzene	ug/kg	50	43.8	88	74-108	M5
1,3-Dichlorobenzene	ug/kg	50	40.9	82	74-109	M5
1,3-Dichloropropane	ug/kg	50	54.0	108	84-119	M5
1,4-Dichlorobenzene	ug/kg	50	40.0	80	74-109	M5
2,2-Dichloropropane	ug/kg	50	43.5	87	58-125	M5
2-Butanone (MEK)	ug/kg	250	260	104	57-183	M5
2-Chlorotoluene	ug/kg	50	45.8	92	74-107	M5
2-Hexanone	ug/kg	250	298	119	56-156	M5
4-Chlorotoluene	ug/kg	50	41.7	83	76-113	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	250	252	101	67-128	M5
Acetone	ug/kg	250	245	98	39-199	M5
Acrolein	ug/kg	1000	602	60	24-200	M5
Acrylonitrile	ug/kg	200	198	99	70-124	M5
Benzene	ug/kg	50	46.9	94	77-117	M5
Bromobenzene	ug/kg	50	44.6	89	74-110	M5
Bromochloromethane	ug/kg	50	46.2	92	68-122	M5
Bromodichloromethane	ug/kg	50	48.9	98	76-115	M5
Bromoform	ug/kg	50	42.1	84	69-125	M5
Bromomethane	ug/kg	50	41.4	83	30-174	M5
Carbon disulfide	ug/kg	50	40.1	80	64-122	M5
Carbon tetrachloride	ug/kg	50	46.0	92	70-126	M5
Chlorobenzene	ug/kg	50	44.1	88	77-111	M5
Chloroethane	ug/kg	50	43.2	86	50-149	M5
Chloroform	ug/kg	50	44.8	90	74-114	M5
Chloromethane	ug/kg	50	37.3	75	51-127	M5
cis-1,2-Dichloroethene	ug/kg	50	44.3	89	74-118	M5
cis-1,3-Dichloropropene	ug/kg	50	47.0	94	77-119	M5
Dibromochloromethane	ug/kg	50	44.9	90	82-120	M5
Dibromomethane	ug/kg	50	49.1	98	79-118	M5
Dichlorodifluoromethane	ug/kg	50	47.1	94	39-160	M5
Ethyl methacrylate	ug/kg	200	235	117	75-125	M5
Ethylbenzene	ug/kg	50	43.0	86	73-114	M5
Hexachloro-1,3-butadiene	ug/kg	50	39.9	80	66-119	M5
Iodomethane	ug/kg	100	103	103	72-140	M5
Isopropylbenzene (Cumene)	ug/kg	50	43.7	87	78-113	M5
Methyl-tert-butyl ether	ug/kg	50	56.5	113	75-119	M5
Methylene Chloride	ug/kg	50	49.5	99	45-153	M5
n-Butylbenzene	ug/kg	50	40.3	81	66-111	M5
n-Hexane	ug/kg	50	45.1	90	57-117	M5
n-Propylbenzene	ug/kg	50	42.4	85	74-112	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2145117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	50.4	101	70-115	M5
p-Isopropyltoluene	ug/kg	50	42.4	85	72-108	M5
sec-Butylbenzene	ug/kg	50	43.4	87	75-113	M5
Styrene	ug/kg	50	44.6	89	73-109	M5
tert-Butylbenzene	ug/kg	50	41.1	82	56-105	M5
Tetrachloroethene	ug/kg	50	39.7	79	72-117	M5
Toluene	ug/kg	50	44.7	89	77-111	M5
trans-1,2-Dichloroethene	ug/kg	50	41.3	83	73-121	M5
trans-1,3-Dichloropropene	ug/kg	50	45.7	91	76-121	M5
trans-1,4-Dichloro-2-butene	ug/kg	200	219	110	57-123	M5
Trichloroethene	ug/kg	50	47.9	96	73-119	M5
Trichlorofluoromethane	ug/kg	50	41.3	83	72-147	M5
Vinyl acetate	ug/kg	200	220	110	59-139	M5
Vinyl chloride	ug/kg	50	41.1	82	57-160	M5
Xylene (Total)	ug/kg	150	129	86	74-111	M5
4-Bromofluorobenzene (S)	%.			103	57-130	M5
Dibromofluoromethane (S)	%.			95	80-127	M5
Toluene-d8 (S)	%.			101	72-136	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 463904 Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50206354005, 50206354006, 50206354007, 50206354008

METHOD BLANK: 2141061 Matrix: Water
Associated Lab Samples: 50206354005, 50206354006, 50206354007, 50206354008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	10/01/18 15:41	N2
2-Methylnaphthalene	ug/L	ND	1.0	10/01/18 15:41	
Acenaphthene	ug/L	ND	1.0	10/01/18 15:41	
Acenaphthylene	ug/L	ND	1.0	10/01/18 15:41	
Anthracene	ug/L	ND	0.10	10/01/18 15:41	
Benzo(a)anthracene	ug/L	ND	0.10	10/01/18 15:41	
Benzo(a)pyrene	ug/L	ND	0.10	10/01/18 15:41	
Benzo(b)fluoranthene	ug/L	ND	0.10	10/01/18 15:41	
Benzo(g,h,i)perylene	ug/L	ND	0.10	10/01/18 15:41	
Benzo(k)fluoranthene	ug/L	ND	0.10	10/01/18 15:41	
Chrysene	ug/L	ND	0.50	10/01/18 15:41	
Dibenz(a,h)anthracene	ug/L	ND	0.10	10/01/18 15:41	
Fluoranthene	ug/L	ND	1.0	10/01/18 15:41	
Fluorene	ug/L	ND	1.0	10/01/18 15:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	10/01/18 15:41	
Naphthalene	ug/L	ND	1.0	10/01/18 15:41	IO
Phenanthrene	ug/L	ND	1.0	10/01/18 15:41	
Pyrene	ug/L	ND	1.0	10/01/18 15:41	
2-Fluorobiphenyl (S)	%.	54	10-108	10/01/18 15:41	
p-Terphenyl-d14 (S)	%.	122	10-167	10/01/18 15:41	

LABORATORY CONTROL SAMPLE: 2141062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	5.1	51	23-93	N2
2-Methylnaphthalene	ug/L	10	4.8	48	23-102	
Acenaphthene	ug/L	10	5.8	58	33-106	
Acenaphthylene	ug/L	10	6.1	61	35-119	
Anthracene	ug/L	10	5.5	55	28-124	
Benzo(a)anthracene	ug/L	10	6.7	67	58-140	
Benzo(a)pyrene	ug/L	10	8.8	88	53-118	
Benzo(b)fluoranthene	ug/L	10	11.4	114	55-133	
Benzo(g,h,i)perylene	ug/L	10	9.2	92	46-105	
Benzo(k)fluoranthene	ug/L	10	10.1	101	49-115	
Chrysene	ug/L	10	7.7	77	50-125	
Dibenz(a,h)anthracene	ug/L	10	9.6	96	48-112	
Fluoranthene	ug/L	10	7.5	75	53-128	
Fluorene	ug/L	10	6.7	67	39-123	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.0	90	49-109	
Naphthalene	ug/L	10	5.4	54	26-95	IO

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2141062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	7.6	76	48-124	
Pyrene	ug/L	10	8.3	83	54-131	
2-Fluorobiphenyl (S)	%.			59	10-108	
p-Terphenyl-d14 (S)	%.			109	10-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2141063 2141064

Parameter	Units	50206195009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	10	10	3.0	3.6	30	36	10-99	17	20	N2
2-Methylnaphthalene	ug/L	ND	10	10	2.8	3.4	28	34	10-104	19	20	
Acenaphthene	ug/L	ND	10	10	3.6	3.7	36	37	10-131	4	20	
Acenaphthylene	ug/L	ND	10	10	3.6	4.0	36	40	10-123	10	20	
Anthracene	ug/L	ND	10	10	4.1	4.3	41	43	10-147	4	20	
Benzo(a)anthracene	ug/L	ND	10	10	5.0	5.5	50	55	12-140	9	20	
Benzo(a)pyrene	ug/L	ND	10	10	5.9	6.4	59	64	10-111	8	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	6.5	7.1	65	71	10-118	8	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	5.2	5.5	52	55	10-91	7	20	
Benzo(k)fluoranthene	ug/L	ND	10	10	7.9	8.3	79	83	10-110	5	20	
Chrysene	ug/L	ND	10	10	6.1	6.4	61	64	14-119	4	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10	5.2	5.7	52	57	10-96	8	20	
Fluoranthene	ug/L	ND	10	10	5.7	6.1	57	61	15-136	6	20	
Fluorene	ug/L	ND	10	10	4.3	4.3	43	43	11-123	1	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	4.8	5.3	48	53	10-95	9	20	
Naphthalene	ug/L	ND	10	10	3.1	4.0	31	40	10-97	24	20	R1
Phenanthrene	ug/L	ND	10	10	5.6	5.6	56	56	11-128	1	20	
Pyrene	ug/L	ND	10	10	6.7	7.1	67	71	17-137	6	20	
2-Fluorobiphenyl (S)	%.						36	43	10-108			
p-Terphenyl-d14 (S)	%.						82	90	10-167			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2141065 2141066

Parameter	Units	50206399006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	10	10	5.3	3.7	51	35	10-99	37	20	N2,R1
2-Methylnaphthalene	ug/L	ND	10	10	5.2	3.5	50	34	10-104	37	20	R1
Acenaphthene	ug/L	ND	10	10	5.2	3.6	52	36	10-131	37	20	R1
Acenaphthylene	ug/L	ND	10	10	6.0	4.0	60	40	10-123	39	20	R1
Anthracene	ug/L	ND	10	10	4.9	3.7	49	37	10-147	28	20	R1
Benzo(a)anthracene	ug/L	ND	10	10	5.6	4.9	56	49	12-140	15	20	
Benzo(a)pyrene	ug/L	ND	10	10	5.8	4.8	58	48	10-111	18	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	6.3	5.4	63	54	10-118	14	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	5.3	4.3	53	43	10-91	21	20	R1
Benzo(k)fluoranthene	ug/L	ND	10	10	6.7	5.5	67	55	10-110	19	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2141065 2141066

Parameter	Units	50206399006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chrysene	ug/L	ND	10	10	5.8	4.8	58	48	14-119	19	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10	5.7	4.7	57	47	10-96	20	20	
Fluoranthene	ug/L	ND	10	10	6.4	5.0	64	50	15-136	25	20	R1
Fluorene	ug/L	ND	10	10	5.8	4.2	58	42	11-123	33	20	R1
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	5.4	4.4	54	44	10-95	20	20	
Naphthalene	ug/L	ND	10	10	5.7	4.0	56	38	10-97	36	20	R1
Phenanthrene	ug/L	ND	10	10	6.4	4.8	64	48	11-128	29	20	R1
Pyrene	ug/L	ND	10	10	7.3	5.7	73	57	17-137	24	20	R1
2-Fluorobiphenyl (S)	%.						55	39	10-108			
p-Terphenyl-d14 (S)	%.						89	75	10-167			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464152 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206354004

METHOD BLANK: 2142691 Matrix: Solid
Associated Lab Samples: 50206354004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/01/18 17:31	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/01/18 17:31	
Acenaphthene	ug/kg	ND	5.0	10/01/18 17:31	
Acenaphthylene	ug/kg	ND	5.0	10/01/18 17:31	
Anthracene	ug/kg	ND	5.0	10/01/18 17:31	
Benzo(a)anthracene	ug/kg	ND	5.0	10/01/18 17:31	
Benzo(a)pyrene	ug/kg	ND	5.0	10/01/18 17:31	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/01/18 17:31	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/01/18 17:31	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/01/18 17:31	
Chrysene	ug/kg	ND	5.0	10/01/18 17:31	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/01/18 17:31	
Fluoranthene	ug/kg	ND	5.0	10/01/18 17:31	
Fluorene	ug/kg	ND	5.0	10/01/18 17:31	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/01/18 17:31	
Naphthalene	ug/kg	ND	5.0	10/01/18 17:31	
Phenanthrene	ug/kg	ND	5.0	10/01/18 17:31	
Pyrene	ug/kg	ND	5.0	10/01/18 17:31	
2-Fluorobiphenyl (S)	%.	80	40-107	10/01/18 17:31	
p-Terphenyl-d14 (S)	%.	86	35-115	10/01/18 17:31	

LABORATORY CONTROL SAMPLE: 2142692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	331	297	90	49-102	N2
2-Methylnaphthalene	ug/kg	331	294	89	50-104	
Acenaphthene	ug/kg	331	300	91	59-119	
Acenaphthylene	ug/kg	331	307	93	61-122	
Anthracene	ug/kg	331	195	59	57-111	
Benzo(a)anthracene	ug/kg	331	314	95	57-121	
Benzo(a)pyrene	ug/kg	331	383	116	55-130	
Benzo(b)fluoranthene	ug/kg	331	360	109	53-125	
Benzo(g,h,i)perylene	ug/kg	331	351	106	56-124	
Benzo(k)fluoranthene	ug/kg	331	378	114	55-137	
Chrysene	ug/kg	331	328	99	60-134	
Dibenz(a,h)anthracene	ug/kg	331	391	118	60-122	
Fluoranthene	ug/kg	331	325	98	60-117	
Fluorene	ug/kg	331	315	95	55-114	
Indeno(1,2,3-cd)pyrene	ug/kg	331	381	115	57-124	
Naphthalene	ug/kg	331	291	88	54-107	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2142692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	331	270	81	60-115	
Pyrene	ug/kg	331	301	91	61-135	
2-Fluorobiphenyl (S)	%.			80	40-107	
p-Terphenyl-d14 (S)	%.			85	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2142693 2142694

Parameter	Units	50206474007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	377	373	319	319	85	86	20-119	0	20	N2
2-Methylnaphthalene	ug/kg	ND	377	373	317	312	84	84	25-114	1	20	
Acenaphthene	ug/kg	ND	377	373	328	319	87	86	34-124	3	20	
Acenaphthylene	ug/kg	ND	377	373	332	325	88	87	37-128	2	20	
Anthracene	ug/kg	ND	377	373	212	202	56	54	25-118	5	20	
Benzo(a)anthracene	ug/kg	ND	377	373	338	322	90	86	16-129	5	20	
Benzo(a)pyrene	ug/kg	ND	377	373	401	370	106	99	19-131	8	20	
Benzo(b)fluoranthene	ug/kg	ND	377	373	349	312	92	84	15-127	11	20	
Benzo(g,h,i)perylene	ug/kg	ND	377	373	357	338	95	91	15-128	6	20	
Benzo(k)fluoranthene	ug/kg	ND	377	373	408	396	108	106	14-142	3	20	
Chrysene	ug/kg	ND	377	373	352	335	92	89	19-141	5	20	
Dibenz(a,h)anthracene	ug/kg	ND	377	373	399	372	106	100	18-133	7	20	
Fluoranthene	ug/kg	ND	377	373	360	331	95	89	25-125	8	20	
Fluorene	ug/kg	ND	377	373	345	334	91	89	32-118	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	377	373	380	360	101	97	11-134	5	20	
Naphthalene	ug/kg	ND	377	373	313	313	83	84	13-137	0	20	
Phenanthrene	ug/kg	ND	377	373	295	283	78	76	21-130	4	20	
Pyrene	ug/kg	ND	377	373	325	312	85	83	20-143	4	20	
2-Fluorobiphenyl (S)	%.						74	75	40-107			
p-Terphenyl-d14 (S)	%.						77	75	35-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464872 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206354001, 50206354003

METHOD BLANK: 2145667 Matrix: Solid
Associated Lab Samples: 50206354001, 50206354003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/05/18 13:09	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/05/18 13:09	
Acenaphthene	ug/kg	ND	5.0	10/05/18 13:09	
Acenaphthylene	ug/kg	ND	5.0	10/05/18 13:09	
Anthracene	ug/kg	ND	5.0	10/05/18 13:09	
Benzo(a)anthracene	ug/kg	ND	5.0	10/05/18 13:09	
Benzo(a)pyrene	ug/kg	ND	5.0	10/05/18 13:09	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/05/18 13:09	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/05/18 13:09	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/05/18 13:09	
Chrysene	ug/kg	ND	5.0	10/05/18 13:09	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/05/18 13:09	
Fluoranthene	ug/kg	ND	5.0	10/05/18 13:09	
Fluorene	ug/kg	ND	5.0	10/05/18 13:09	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/05/18 13:09	
Naphthalene	ug/kg	ND	5.0	10/05/18 13:09	
Phenanthrene	ug/kg	ND	5.0	10/05/18 13:09	
Pyrene	ug/kg	ND	5.0	10/05/18 13:09	
2-Fluorobiphenyl (S)	%.	75	40-107	10/05/18 13:09	
p-Terphenyl-d14 (S)	%.	88	35-115	10/05/18 13:09	

LABORATORY CONTROL SAMPLE: 2145668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	332	310	93	49-102	N2
2-Methylnaphthalene	ug/kg	332	314	95	50-104	
Acenaphthene	ug/kg	332	308	93	59-119	
Acenaphthylene	ug/kg	332	321	97	61-122	
Anthracene	ug/kg	332	220	66	57-111	
Benzo(a)anthracene	ug/kg	332	359	108	57-121	
Benzo(a)pyrene	ug/kg	332	402	121	55-130	
Benzo(b)fluoranthene	ug/kg	332	340	102	53-125	
Benzo(g,h,i)perylene	ug/kg	332	355	107	56-124	
Benzo(k)fluoranthene	ug/kg	332	420	126	55-137	
Chrysene	ug/kg	332	351	106	60-134	
Dibenz(a,h)anthracene	ug/kg	332	403	121	60-122	
Fluoranthene	ug/kg	332	352	106	60-117	
Fluorene	ug/kg	332	336	101	55-114	
Indeno(1,2,3-cd)pyrene	ug/kg	332	395	119	57-124	
Naphthalene	ug/kg	332	327	98	54-107	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2145668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	332	296	89	60-115	
Pyrene	ug/kg	332	319	96	61-135	
2-Fluorobiphenyl (S)	%.			83	40-107	
p-Terphenyl-d14 (S)	%.			96	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2145669 2145670

Parameter	Units	50206801001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	402	398	332	348	82	87	20-119	5	20	N2
2-Methylnaphthalene	ug/kg	ND	402	398	326	342	80	85	25-114	5	20	
Acenaphthene	ug/kg	ND	402	398	332	345	82	86	34-124	4	20	
Acenaphthylene	ug/kg	ND	402	398	340	353	85	89	37-128	4	20	
Anthracene	ug/kg	ND	402	398	217	226	54	57	25-118	4	20	
Benzo(a)anthracene	ug/kg	ND	402	398	341	370	84	92	16-129	8	20	
Benzo(a)pyrene	ug/kg	ND	402	398	358	390	88	97	19-131	9	20	
Benzo(b)fluoranthene	ug/kg	ND	402	398	343	379	85	94	15-127	10	20	
Benzo(g,h,i)perylene	ug/kg	ND	402	398	311	344	77	86	15-128	10	20	
Benzo(k)fluoranthene	ug/kg	ND	402	398	348	378	86	94	14-142	8	20	
Chrysene	ug/kg	0.0063 mg/kg	402	398	353	377	86	93	19-141	7	20	
Dibenz(a,h)anthracene	ug/kg	ND	402	398	364	393	90	99	18-133	8	20	
Fluoranthene	ug/kg	0.0078 mg/kg	402	398	368	397	90	98	25-125	8	20	
Fluorene	ug/kg	ND	402	398	352	370	87	92	32-118	5	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	402	398	342	375	85	94	11-134	9	20	
Naphthalene	ug/kg	ND	402	398	322	331	79	82	13-137	3	20	
Phenanthrene	ug/kg	0.0063 mg/kg	402	398	312	325	76	80	21-130	4	20	
Pyrene	ug/kg	0.0064 mg/kg	402	398	332	353	81	87	20-143	6	20	
2-Fluorobiphenyl (S)	%.						71	78	40-107			
p-Terphenyl-d14 (S)	%.						72	77	35-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 465036
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50206817001

METHOD BLANK: 2146406
Matrix: Solid
Associated Lab Samples: 50206817001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	10/05/18 15:01	N2
2-Methylnaphthalene	ug/kg	ND	5.0	10/05/18 15:01	
Acenaphthene	ug/kg	ND	5.0	10/05/18 15:01	
Acenaphthylene	ug/kg	ND	5.0	10/05/18 15:01	
Anthracene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(a)anthracene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(a)pyrene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(b)fluoranthene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	10/05/18 15:01	
Benzo(k)fluoranthene	ug/kg	ND	5.0	10/05/18 15:01	
Chrysene	ug/kg	ND	5.0	10/05/18 15:01	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	10/05/18 15:01	
Fluoranthene	ug/kg	ND	5.0	10/05/18 15:01	
Fluorene	ug/kg	ND	5.0	10/05/18 15:01	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	10/05/18 15:01	
Naphthalene	ug/kg	ND	5.0	10/05/18 15:01	
Phenanthrene	ug/kg	ND	5.0	10/05/18 15:01	
Pyrene	ug/kg	ND	5.0	10/05/18 15:01	
2-Fluorobiphenyl (S)	%.	91	40-107	10/05/18 15:01	
p-Terphenyl-d14 (S)	%.	96	35-115	10/05/18 15:01	

LABORATORY CONTROL SAMPLE: 2146407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	332	280	84	49-102	N2
2-Methylnaphthalene	ug/kg	332	276	83	50-104	
Acenaphthene	ug/kg	332	296	89	59-119	
Acenaphthylene	ug/kg	332	286	86	61-122	
Anthracene	ug/kg	332	230	69	57-111	
Benzo(a)anthracene	ug/kg	332	314	94	57-121	
Benzo(a)pyrene	ug/kg	332	334	101	55-130	
Benzo(b)fluoranthene	ug/kg	332	387	116	53-125	
Benzo(g,h,i)perylene	ug/kg	332	333	100	56-124	
Benzo(k)fluoranthene	ug/kg	332	297	89	55-137	
Chrysene	ug/kg	332	315	95	60-134	
Dibenz(a,h)anthracene	ug/kg	332	335	101	60-122	
Fluoranthene	ug/kg	332	316	95	60-117	
Fluorene	ug/kg	332	314	95	55-114	
Indeno(1,2,3-cd)pyrene	ug/kg	332	328	99	57-124	
Naphthalene	ug/kg	332	266	80	54-107	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

LABORATORY CONTROL SAMPLE: 2146407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	332	302	91	60-115	
Pyrene	ug/kg	332	311	94	61-135	
2-Fluorobiphenyl (S)	%.			83	40-107	
p-Terphenyl-d14 (S)	%.			93	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2146408 2146409

Parameter	Units	50206949001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	392	392	349	346	88	87	20-119	1	20	N2
2-Methylnaphthalene	ug/kg	ND	392	392	352	352	88	89	25-114	0	20	
Acenaphthene	ug/kg	ND	392	392	366	375	93	96	34-124	3	20	
Acenaphthylene	ug/kg	ND	392	392	360	364	92	93	37-128	1	20	
Anthracene	ug/kg	ND	392	392	257	270	65	69	25-118	5	20	
Benzo(a)anthracene	ug/kg	ND	392	392	326	351	83	89	16-129	8	20	
Benzo(a)pyrene	ug/kg	ND	392	392	346	384	88	98	19-131	10	20	
Benzo(b)fluoranthene	ug/kg	ND	392	392	384	385	98	98	15-127	0	20	
Benzo(g,h,i)perylene	ug/kg	ND	392	392	332	377	85	96	15-128	13	20	
Benzo(k)fluoranthene	ug/kg	ND	392	392	315	405	80	103	14-142	25	20	R1
Chrysene	ug/kg	ND	392	392	345	366	88	93	19-141	6	20	
Dibenz(a,h)anthracene	ug/kg	ND	392	392	375	404	96	103	18-133	7	20	
Fluoranthene	ug/kg	ND	392	392	333	373	85	95	25-125	11	20	
Fluorene	ug/kg	ND	392	392	380	381	97	97	32-118	0	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	392	392	331	374	84	95	11-134	12	20	
Naphthalene	ug/kg	0.024 mg/kg	392	392	351	356	83	84	13-137	1	20	
Phenanthrene	ug/kg	ND	392	392	341	360	87	92	21-130	5	20	
Pyrene	ug/kg	ND	392	392	331	359	84	91	20-143	8	20	
2-Fluorobiphenyl (S)	%.						86	85	40-107			
p-Terphenyl-d14 (S)	%.						81	85	35-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 463466 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206354001, 50206354003

SAMPLE DUPLICATE: 2138872

Parameter	Units	50206094005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	7.1	8	5	R1

SAMPLE DUPLICATE: 2140040

Parameter	Units	50206348001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.9	12.6	3	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 463644
QC Batch Method: SM 2540G
Analysis Method: SM 2540G
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206354004

SAMPLE DUPLICATE: 2139857

Parameter	Units	50206214001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.3	17.6	21	5	R1

SAMPLE DUPLICATE: 2139858

Parameter	Units	50206265004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.7	10.2	4	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

QC Batch: 464558
QC Batch Method: SM 2540G
Analysis Method: SM 2540G
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50206817001

SAMPLE DUPLICATE: 2144271

Parameter	Units	50206817001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.9	21.0	1	5	

SAMPLE DUPLICATE: 2144272

Parameter	Units	50206817010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	28.9	29.4	2	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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-I	Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 464466

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 464679

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 464739

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 34 ug/kg based on the MDL. grm 10-4-18
2d	MtBE ND at an estimated RL of 180 ug/kg based on the MDL. grm 10-4-18
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H7	Re-extraction or re-analysis could not be performed within method holding time.
IO	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IU Health Bloomington Hospital
Pace Project No.: 50206354

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50206354001	**SB-1-6-8**	EPA 3050	463492	EPA 6010	463814
50206354003	**SB-3-4-6**	EPA 3050	463492	EPA 6010	463814
50206354004	**SB-4-2-4**	EPA 3050	463492	EPA 6010	463814
50206817001	**SB-2-4-6**	EPA 3050	464724	EPA 6010	465222
50206354005	**SB-1-GW-5-10**	EPA 3010	464290	EPA 6010	464291
50206354006	**SB-2-GW-3.5-8.5**	EPA 3010	464290	EPA 6010	464291
50206354007	**SB-3-GW-5-10**	EPA 3010	464290	EPA 6010	464291
50206354008	**SB-4-GW-6-11**	EPA 3010	464290	EPA 6010	464291
50206354005	**SB-1-GW-5-10**	EPA 3510	463904	EPA 8270 by SIM LVE	464219
50206354006	**SB-2-GW-3.5-8.5**	EPA 3510	463904	EPA 8270 by SIM LVE	464219
50206354007	**SB-3-GW-5-10**	EPA 3510	463904	EPA 8270 by SIM LVE	464219
50206354008	**SB-4-GW-6-11**	EPA 3510	463904	EPA 8270 by SIM LVE	464219
50206354001	**SB-1-6-8**	EPA 3546	464872	EPA 8270 by SIM	464942
50206354003	**SB-3-4-6**	EPA 3546	464872	EPA 8270 by SIM	464942
50206354004	**SB-4-2-4**	EPA 3546	464152	EPA 8270 by SIM	464243
50206817001	**SB-2-4-6**	EPA 3546	465036	EPA 8270 by SIM	465142
50206354005	**SB-1-GW-5-10**	EPA 8260	464466		
50206354006	**SB-2-GW-3.5-8.5**	EPA 8260	464466		
50206354007	**SB-3-GW-5-10**	EPA 8260	464701		
50206354008	**SB-4-GW-6-11**	EPA 8260	464701		
50206354001	**SB-1-6-8**	EPA 8260	464679		
50206354003	**SB-3-4-6**	EPA 8260	464739		
50206354004	**SB-4-2-4**	EPA 8260	464739		
50206354009	**SB-2-4-6**	EPA 8260	464679		
50206354001	**SB-1-6-8**	SM 2540G	463466		
50206354003	**SB-3-4-6**	SM 2540G	463466		
50206354004	**SB-4-2-4**	SM 2540G	463644		
50206817001	**SB-2-4-6**	SM 2540G	464558		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company: August Mack Environmental, Inc.
Address: 1302 N. Meridian St., Suite 300, Indianapolis, IN 46202
Email To: Kara.Seymour@augustmack.com
Phone: (317) 916-8000 Fax: (317) 916-8001
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kara Seymour KSeymour@augustmack.com
Copy To: Tyler Zschiedrich TZschiedrich@augustmack.com
Purchase Order No.:
Project Name: Indiana University Health Bloomington Hospital Campus
Project Number: JS1901.740

Section C Invoice Information:

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

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

Site Location STATE: IN

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs	PAHs	Lead	Dissolved Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60206354
1	SB-1-6-8	SL	G			9.24.18	1615		6	3						1	2		X	X	X			001
2	SB-1-GW-5-10	WT	G			9.24.18	1600		6	3			3						X	X		X		005
3	SB-2-4-6	SL	G			9.24.18	1715		5/6	3/2						1	2		X	X	X			009 (002)
4	SB-2-GW-3.5-8.5	WT	G			9.24.18	1835		6	3			3						X	X		X		006
5	SB-3-4-6	SL	G			9.24.18	1840		6	3						1	2		X	X	X			003
6	SB-3-GW-5-10	WT	G			9.24.18	1825		6	3			3						X	X		X		007
7	SB-4-2-4	SL	G			9.24.18	1820		6	3						1	2		X	X	X			004
8	SB-4-GW-6-11	WT	G			9.24.18	1725		6	3			3						X	X		X		008
9																								SB-2-6-8 002
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Dissolved Lead = Lab Filtered		9-25-18	1310		9/25/18	1310				
SB-2-4-6 only has 1 4oz glass jar to analyze PAHs & Lead		9/25/18	1535		9/25/18	1535	0.6	Y	N	Y
		9/26/18	0955		9/26/18	955				
		9/26/18	1210		9/26/18	1210	0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kara Seymour

SIGNATURE of SAMPLER: Kara Seymour DATE Signed (MM/DD/YY): 09/24/18

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

SAMPLE CONDITION UPON RECEIPT FORM

Pace Analytical

Project #: 50206354

Date/Time and Initials of person examining contents: 09/25/18 GK 1605

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals Intact:** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 (4) 5 6 A B (C) D E F **Ice Type:** ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 1.0 / 0.6 1.2/0.8 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		X	All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			X
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X				
Chain of Custody Present:	X		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			
Chain of Custody Filled Out:	X		Dissolved Metals field filtered?:			X
Short Hold Time Analysis (<72hr)? TC **Analysis:**	X	HP X	Headspace Wisconsin Sulfide			X
Time 5035A TC placed in Freezer or Short Holds To Lab: 1245				Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Rush TAT Requested:		X	Headspace in VOA Vials (>6mm):			X
Containers Intact?:	X		Trip Blank Present?:		X	
Sample Labels Match COC?: Except TCs, which only require sample ID	X	X	Trip Blank Custody Seals?:		X	

Comments: Sample SB-2-6-8 matches time and date of sample SB-2-4-6 but is labeled a different depth. GK 09/25/18

Got TCs of SB-2-4-6, but no jars 9/26/18 HP

092718 email: Do not analyze SB-2-6-8. Do analyze SB-2-4-6. HP

Sample Container Count

WO# : 50206354

CLIENT: August Mack

COC PAGE 1 of 4

COC ID# _____

Project # 50206354

Sample Line Item	DG9H (VG9H)	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk Kit R				Matrix SL (Soil/Wa Aqueous	pH <2	pH >9	pH>12
1							2										4				SL			
2	3	2														1					WT			
3							2	09268									4	SB-2-4-6			SL			
4	3	2														1					WT			
5							2										4				SL			
6	3	2														1					WT			
7							2										4				SL			
8	3	2														1					WT			
9							2										4	SB-2-6-8			SL		(002)	
10																								
11																								
12																								

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

November 29, 2018

Kara Seymour
August Mack Environmental, Inc.
1302 N. Meridian St.
Suite 300
Indianapolis, IN 46202

RE: Project: JS1901.740.0002
Pace Project No.: 50210433

Dear Kara Seymour:
Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 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,

Kelly Jones
kelly.jones@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Andy Tennyson, August Mack Environmental Consultants

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: JS1901.740.0002
Pace Project No.: 50210433

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355-18-12
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50210433001	**SB-25-2-4**	Solid	11/15/18 14:21	11/15/18 17:30
50210433002	**SB-26-2-4**	Solid	11/15/18 14:30	11/15/18 17:30
50210433003	**SB-27-2-4**	Solid	11/15/18 14:40	11/15/18 17:30
50210433004	**SB-27-6-7**	Solid	11/15/18 14:45	11/15/18 17:30
50210433005	**SB-28-2-4**	Solid	11/15/18 14:55	11/15/18 17:30
50210433006	**SB-28-6-8**	Solid	11/15/18 14:50	11/15/18 17:30
50210433007	**SB-29-2-4**	Solid	11/15/18 15:10	11/15/18 17:30
50210433008	**SB-30-4-6**	Solid	11/15/18 15:20	11/15/18 17:30
50210433009	**SB-25-GW-2-12**	Water	11/15/18 13:50	11/15/18 17:30
50210433010	**SB-26-GW-2-12**	Water	11/15/18 14:00	11/15/18 17:30
50210433011	**SB-28-GW-2-12**	Water	11/15/18 14:06	11/15/18 17:30
50210433012	**SB-29-GW-4-9**	Water	11/15/18 14:10	11/15/18 17:30
50210433013	**SB-30-GW-2-12**	Water	11/15/18 14:15	11/15/18 17:30

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SAMPLE ANALYTE COUNT

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50210433001	**SB-25-2-4**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	LKC	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50210433002	**SB-26-2-4**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	LKC	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50210433003	**SB-27-2-4**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	LKC	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50210433004	**SB-27-6-7**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	LKC	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50210433005	**SB-28-2-4**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	LKC	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50210433006	**SB-28-6-8**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	LKC	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50210433007	**SB-29-2-4**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	LKC	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50210433008	**SB-30-4-6**	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	LKC	73	PASI-I
		SM 2540G	CDR	1	PASI-I
50210433009	**SB-25-GW-2-12**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM LVE	GRM	20	PASI-I
		EPA 8260	CAP	73	PASI-I
50210433010	**SB-26-GW-2-12**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM LVE	GRM	20	PASI-I

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	CAP	73	PASI-I
50210433011	**SB-28-GW-2-12**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM LVE	GRM	20	PASI-I
		EPA 8260	CAP	73	PASI-I
50210433012	**SB-29-GW-4-9**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM LVE	GRM	20	PASI-I
		EPA 8260	CAP	73	PASI-I
50210433013	**SB-30-GW-2-12**	EPA 6010	KJE	1	PASI-I
		EPA 8270 by SIM LVE	GRM	20	PASI-I
		EPA 8260	CAP	73	PASI-I

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50210433001	**SB-25-2-4**					
EPA 6010	Lead	42.1	mg/kg	1.1	11/19/18 02:28	
EPA 8270 by SIM	Acenaphthene	0.90	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Acenaphthylene	0.34	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Benzo(a)anthracene	0.065	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Benzo(a)pyrene	0.037	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.060	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.038	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.048	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Chrysene	0.14	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Fluoranthene	0.13	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Fluorene	0.93	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	1-Methylnaphthalene	15.1	mg/kg	0.14	11/28/18 18:29	N2
EPA 8270 by SIM	2-Methylnaphthalene	18.8	mg/kg	0.14	11/28/18 18:29	
EPA 8270 by SIM	Naphthalene	1.3	mg/kg	0.028	11/28/18 02:38	ED
EPA 8270 by SIM	Phenanthrene	1.5	mg/kg	0.028	11/28/18 02:38	
EPA 8270 by SIM	Pyrene	0.16	mg/kg	0.028	11/28/18 02:38	
EPA 8260	Benzene	0.15	mg/kg	0.0060	11/27/18 22:27	M5
EPA 8260	n-Butylbenzene	13.5	mg/kg	0.65	11/29/18 14:41	M5
EPA 8260	sec-Butylbenzene	5.2	mg/kg	0.16	11/28/18 23:35	M5
EPA 8260	Ethylbenzene	0.13	mg/kg	0.0060	11/27/18 22:27	M5
EPA 8260	n-Hexane	7.1	mg/kg	0.16	11/28/18 23:35	M5
EPA 8260	Isopropylbenzene (Cumene)	7.5	mg/kg	0.16	11/28/18 23:35	M5
EPA 8260	Naphthalene	0.013	mg/kg	0.0060	11/27/18 22:27	M5
EPA 8260	n-Propylbenzene	29.0	mg/kg	0.65	11/29/18 14:41	M5
EPA 8260	Toluene	0.058	mg/kg	0.0060	11/27/18 22:27	M5
EPA 8260	1,2,4-Trimethylbenzene	0.026	mg/kg	0.0060	11/27/18 22:27	M5
EPA 8260	Xylene (Total)	0.27	mg/kg	0.012	11/27/18 22:27	M5
SM 2540G	Percent Moisture	10.2	%	0.10	11/16/18 16:50	
50210433002	**SB-26-2-4**					
EPA 6010	Lead	16.2	mg/kg	0.98	11/19/18 02:31	
EPA 8270 by SIM	Acenaphthene	0.94	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Acenaphthylene	0.33	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Anthracene	0.26	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Benzo(a)anthracene	0.022	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Benzo(a)pyrene	0.015	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.015	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.014	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.018	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Chrysene	0.030	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.0055	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Fluoranthene	0.052	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Fluorene	1.2	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.011	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	1-Methylnaphthalene	21.3	mg/kg	0.11	11/28/18 18:45	N2
EPA 8270 by SIM	2-Methylnaphthalene	32.9	mg/kg	0.11	11/28/18 18:45	
EPA 8270 by SIM	Naphthalene	0.83	mg/kg	0.0054	11/28/18 02:54	
EPA 8270 by SIM	Phenanthrene	1.3	mg/kg	0.0054	11/28/18 02:54	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50210433002	**SB-26-2-4**					
EPA 8270 by SIM	Pyrene	0.065	mg/kg	0.0054	11/28/18 02:54	
EPA 8260	Benzene	4.1	mg/kg	0.13	11/29/18 00:09	M5
EPA 8260	n-Butylbenzene	6.7	mg/kg	0.13	11/29/18 00:09	M5
EPA 8260	sec-Butylbenzene	2.5	mg/kg	0.13	11/29/18 00:09	M5
EPA 8260	Ethylbenzene	2.9	mg/kg	0.13	11/29/18 00:09	M5
EPA 8260	n-Hexane	7.4	mg/kg	0.13	11/29/18 00:09	M5
EPA 8260	Isopropylbenzene (Cumene)	5.1	mg/kg	0.13	11/29/18 00:09	M5
EPA 8260	Naphthalene	0.040	mg/kg	0.0060	11/27/18 23:01	M5
EPA 8260	n-Propylbenzene	16.8	mg/kg	0.53	11/29/18 15:05	M5
EPA 8260	Toluene	0.076	mg/kg	0.0060	11/27/18 23:01	M5
EPA 8260	1,2,4-Trimethylbenzene	0.10	mg/kg	0.0060	11/27/18 23:01	M5
EPA 8260	1,3,5-Trimethylbenzene	0.078	mg/kg	0.0060	11/27/18 23:01	M5
EPA 8260	Xylene (Total)	0.32	mg/kg	0.012	11/27/18 23:01	M5
SM 2540G	Percent Moisture	8.9	%	0.10	11/16/18 16:50	
50210433003	**SB-27-2-4**					
EPA 6010	Lead	56.5	mg/kg	1.1	11/19/18 02:33	
EPA 8270 by SIM	Acenaphthene	1.4	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Acenaphthylene	0.56	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Anthracene	0.69	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Benzo(a)anthracene	0.12	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Benzo(a)pyrene	0.12	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.14	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.11	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.095	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Chrysene	0.14	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.046	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Fluoranthene	0.26	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Fluorene	1.7	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.093	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	1-Methylnaphthalene	42.7	mg/kg	0.29	11/28/18 19:02	N2
EPA 8270 by SIM	2-Methylnaphthalene	56.6	mg/kg	0.29	11/28/18 19:02	
EPA 8270 by SIM	Naphthalene	3.5	mg/kg	0.029	11/28/18 03:11	ED
EPA 8270 by SIM	Phenanthrene	3.4	mg/kg	0.029	11/28/18 03:11	
EPA 8270 by SIM	Pyrene	0.29	mg/kg	0.029	11/28/18 03:11	
EPA 8260	Benzene	4.0	mg/kg	0.19	11/29/18 00:42	M5
EPA 8260	n-Butylbenzene	14.7	mg/kg	0.75	11/29/18 15:30	M5
EPA 8260	sec-Butylbenzene	5.8	mg/kg	0.19	11/29/18 00:42	M5
EPA 8260	Ethylbenzene	5.2	mg/kg	0.19	11/29/18 00:42	M5
EPA 8260	n-Hexane	9.2	mg/kg	0.19	11/29/18 00:42	M5
EPA 8260	Isopropylbenzene (Cumene)	8.4	mg/kg	0.19	11/29/18 00:42	M5
EPA 8260	Naphthalene	0.034	mg/kg	0.0069	11/27/18 23:34	M5
EPA 8260	n-Propylbenzene	30.1	mg/kg	0.75	11/29/18 15:30	M5
EPA 8260	Toluene	0.11	mg/kg	0.0069	11/27/18 23:34	M5
EPA 8260	1,2,4-Trimethylbenzene	0.070	mg/kg	0.0069	11/27/18 23:34	M5
EPA 8260	Xylene (Total)	0.43	mg/kg	0.014	11/27/18 23:34	M5
SM 2540G	Percent Moisture	14.3	%	0.10	11/16/18 16:50	

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SUMMARY OF DETECTION

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50210433004	**SB-27-6-7**					
EPA 6010	Lead	48.8	mg/kg	1.3	11/19/18 02:35	
EPA 8270 by SIM	Acenaphthene	0.42	mg/kg	0.0070	11/28/18 03:27	
EPA 8270 by SIM	Acenaphthylene	0.14	mg/kg	0.0070	11/28/18 03:27	
EPA 8270 by SIM	Anthracene	0.24	mg/kg	0.0070	11/28/18 03:27	
EPA 8270 by SIM	Benzo(a)anthracene	0.0084	mg/kg	0.0070	11/28/18 03:27	
EPA 8270 by SIM	Chrysene	0.014	mg/kg	0.0070	11/28/18 03:27	
EPA 8270 by SIM	Fluoranthene	0.034	mg/kg	0.0070	11/28/18 03:27	
EPA 8270 by SIM	Fluorene	0.69	mg/kg	0.0070	11/28/18 03:27	
EPA 8270 by SIM	1-Methylnaphthalene	14.1	mg/kg	0.14	11/28/18 19:18	N2
EPA 8270 by SIM	2-Methylnaphthalene	22.6	mg/kg	0.14	11/28/18 19:18	
EPA 8270 by SIM	Phenanthrene	1.7	mg/kg	0.0070	11/28/18 03:27	
EPA 8270 by SIM	Pyrene	0.075	mg/kg	0.0070	11/28/18 03:27	
EPA 8260	Benzene	4.2	mg/kg	0.15	11/29/18 01:16	M5
EPA 8260	n-Butylbenzene	4.9	mg/kg	0.15	11/29/18 01:16	M5
EPA 8260	sec-Butylbenzene	1.9	mg/kg	0.15	11/29/18 01:16	M5
EPA 8260	tert-Butylbenzene	0.038	mg/kg	0.0051	11/28/18 00:08	M5
EPA 8260	Ethylbenzene	0.86	mg/kg	0.15	11/29/18 01:16	M5
EPA 8260	n-Hexane	13.5	mg/kg	0.61	11/29/18 01:49	M5
EPA 8260	Isopropylbenzene (Cumene)	4.0	mg/kg	0.15	11/29/18 01:16	M5
EPA 8260	p-Isopropyltoluene	0.080	mg/kg	0.0051	11/28/18 00:08	M5
EPA 8260	n-Propylbenzene	13.1	mg/kg	0.61	11/29/18 01:49	M5
EPA 8260	Toluene	0.11	mg/kg	0.0051	11/28/18 00:08	M5
EPA 8260	Xylene (Total)	0.22	mg/kg	0.010	11/28/18 00:08	M5
SM 2540G	Percent Moisture	29.2	%	0.10	11/16/18 17:07	
50210433005	**SB-28-2-4**					
EPA 6010	Lead	60.2	mg/kg	0.97	11/19/18 02:43	
EPA 8270 by SIM	Acenaphthene	0.95	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Acenaphthylene	0.35	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Anthracene	0.81	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Benzo(a)anthracene	0.14	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Benzo(a)pyrene	0.17	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.16	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.16	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.14	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Chrysene	0.17	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.092	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Fluoranthene	0.29	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Fluorene	1.6	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.16	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	1-Methylnaphthalene	25.0	mg/kg	0.28	11/28/18 19:35	N2
EPA 8270 by SIM	2-Methylnaphthalene	28.9	mg/kg	0.28	11/28/18 19:35	
EPA 8270 by SIM	Naphthalene	1.0	mg/kg	0.028	11/28/18 03:44	ED
EPA 8270 by SIM	Phenanthrene	3.5	mg/kg	0.028	11/28/18 03:44	
EPA 8270 by SIM	Pyrene	0.42	mg/kg	0.028	11/28/18 03:44	
EPA 8260	Benzene	0.13	mg/kg	0.0067	11/28/18 00:41	M5
EPA 8260	n-Butylbenzene	3.2	mg/kg	0.21	11/29/18 02:23	M5
EPA 8260	sec-Butylbenzene	0.22	mg/kg	0.0067	11/28/18 00:41	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50210433005	**SB-28-2-4**					
EPA 8260	Chloroform	0.091	mg/kg	0.0067	11/28/18 00:41	M5
EPA 8260	Ethylbenzene	0.019	mg/kg	0.0067	11/28/18 00:41	M5
EPA 8260	n-Hexane	0.081	mg/kg	0.0067	11/28/18 00:41	M5
EPA 8260	Isopropylbenzene (Cumene)	0.32	mg/kg	0.0067	11/28/18 00:41	M5
EPA 8260	n-Propylbenzene	4.6	mg/kg	0.21	11/29/18 02:23	M5
EPA 8260	Toluene	0.035	mg/kg	0.0067	11/28/18 00:41	M5
EPA 8260	Xylene (Total)	0.15	mg/kg	0.013	11/28/18 00:41	M5
SM 2540G	Percent Moisture	10	%	0.10	11/16/18 17:07	
50210433006	**SB-28-6-8**					
EPA 6010	Lead	14.9	mg/kg	1.2	11/19/18 02:45	
EPA 8270 by SIM	Acenaphthene	0.29	mg/kg	0.0062	11/28/18 04:00	
EPA 8270 by SIM	Acenaphthylene	0.099	mg/kg	0.0062	11/28/18 04:00	
EPA 8270 by SIM	Anthracene	0.20	mg/kg	0.0062	11/28/18 04:00	
EPA 8270 by SIM	Benzo(a)anthracene	0.0064	mg/kg	0.0062	11/28/18 04:00	
EPA 8270 by SIM	Chrysene	0.010	mg/kg	0.0062	11/28/18 04:00	
EPA 8270 by SIM	Fluoranthene	0.024	mg/kg	0.0062	11/28/18 04:00	
EPA 8270 by SIM	Fluorene	0.44	mg/kg	0.0062	11/28/18 04:00	
EPA 8270 by SIM	1-Methylnaphthalene	5.8	mg/kg	0.062	11/28/18 19:51	N2
EPA 8270 by SIM	2-Methylnaphthalene	6.9	mg/kg	0.062	11/28/18 19:51	
EPA 8270 by SIM	Phenanthrene	1.2	mg/kg	0.0062	11/28/18 04:00	
EPA 8270 by SIM	Pyrene	0.060	mg/kg	0.0062	11/28/18 04:00	
EPA 8260	Benzene	0.18	mg/kg	0.0055	11/28/18 01:15	M5
EPA 8260	n-Butylbenzene	1.2	mg/kg	0.12	11/29/18 02:56	M5
EPA 8260	sec-Butylbenzene	0.27	mg/kg	0.0055	11/28/18 01:15	M5
EPA 8260	Ethylbenzene	0.035	mg/kg	0.0055	11/28/18 01:15	M5
EPA 8260	n-Hexane	4.8	mg/kg	0.12	11/29/18 02:56	M5
EPA 8260	Isopropylbenzene (Cumene)	0.66	mg/kg	0.12	11/29/18 02:56	M5
EPA 8260	p-Isopropyltoluene	0.071	mg/kg	0.0055	11/28/18 01:15	M5
EPA 8260	n-Propylbenzene	1.9	mg/kg	0.12	11/29/18 02:56	M5
EPA 8260	Toluene	0.021	mg/kg	0.0055	11/28/18 01:15	M5
EPA 8260	Xylene (Total)	0.015	mg/kg	0.011	11/28/18 01:15	M5
SM 2540G	Percent Moisture	20.7	%	0.10	11/16/18 17:07	
50210433007	**SB-29-2-4**					
EPA 6010	Lead	77.9	mg/kg	1.1	11/19/18 02:47	
EPA 8270 by SIM	Acenaphthene	0.95	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Acenaphthylene	0.30	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Anthracene	0.81	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Benzo(a)anthracene	0.067	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Benzo(a)pyrene	0.051	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.064	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.071	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.055	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Chrysene	0.095	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Fluoranthene	0.20	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Fluorene	1.4	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.056	mg/kg	0.028	11/28/18 04:17	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
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SUMMARY OF DETECTION

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50210433007	**SB-29-2-4**					
EPA 8270 by SIM	1-Methylnaphthalene	10.8	mg/kg	0.14	11/28/18 20:08	N2
EPA 8270 by SIM	2-Methylnaphthalene	5.3	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Phenanthrene	3.0	mg/kg	0.028	11/28/18 04:17	
EPA 8270 by SIM	Pyrene	0.42	mg/kg	0.028	11/28/18 04:17	
EPA 8260	Benzene	0.0043	mg/kg	0.0042	11/28/18 01:49	M5
EPA 8260	n-Butylbenzene	0.055	mg/kg	0.0042	11/28/18 01:49	M5
EPA 8260	n-Hexane	0.0047	mg/kg	0.0042	11/28/18 01:49	M5
EPA 8260	Isopropylbenzene (Cumene)	0.027	mg/kg	0.0042	11/28/18 01:49	M5
EPA 8260	n-Propylbenzene	0.048	mg/kg	0.0042	11/28/18 01:49	M5
EPA 8260	Xylene (Total)	0.027	mg/kg	0.0083	11/28/18 01:49	M5
SM 2540G	Percent Moisture	10.4	%	0.10	11/16/18 17:07	
50210433008	**SB-30-4-6**					
EPA 6010	Lead	17.8	mg/kg	1.1	11/19/18 02:49	
EPA 8270 by SIM	Acenaphthene	0.20	mg/kg	0.0063	11/28/18 04:33	
EPA 8270 by SIM	Acenaphthylene	0.081	mg/kg	0.0063	11/28/18 04:33	
EPA 8270 by SIM	Anthracene	0.15	mg/kg	0.0063	11/28/18 04:33	
EPA 8270 by SIM	Benzo(a)anthracene	0.0066	mg/kg	0.0063	11/28/18 04:33	
EPA 8270 by SIM	Chrysene	0.0096	mg/kg	0.0063	11/28/18 04:33	
EPA 8270 by SIM	Fluoranthene	0.019	mg/kg	0.0063	11/28/18 04:33	
EPA 8270 by SIM	Fluorene	0.30	mg/kg	0.0063	11/28/18 04:33	
EPA 8270 by SIM	1-Methylnaphthalene	3.4	mg/kg	0.032	11/28/18 20:24	N2
EPA 8270 by SIM	2-Methylnaphthalene	4.7	mg/kg	0.032	11/28/18 20:24	
EPA 8270 by SIM	Phenanthrene	0.81	mg/kg	0.0063	11/28/18 04:33	
EPA 8270 by SIM	Pyrene	0.045	mg/kg	0.0063	11/28/18 04:33	
EPA 8260	n-Butylbenzene	0.16	mg/kg	0.0050	11/28/18 02:22	M5
EPA 8260	sec-Butylbenzene	0.22	mg/kg	0.0050	11/28/18 02:22	M5
EPA 8260	n-Hexane	0.0070	mg/kg	0.0050	11/28/18 02:22	M5
EPA 8260	Isopropylbenzene (Cumene)	0.27	mg/kg	0.0050	11/28/18 02:22	M5
EPA 8260	n-Propylbenzene	2.3	mg/kg	0.13	11/29/18 04:03	M5
SM 2540G	Percent Moisture	21.5	%	0.10	11/16/18 17:08	
50210433009	**SB-25-GW-2-12**					
EPA 8270 by SIM LVE	Acenaphthene	3.4	ug/L	1.0	11/20/18 17:49	1d
EPA 8270 by SIM LVE	Fluorene	3.9	ug/L	1.0	11/20/18 17:49	1d
EPA 8270 by SIM LVE	1-Methylnaphthalene	63.7	ug/L	1.0	11/20/18 17:49	1d,N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	81.9	ug/L	1.0	11/20/18 17:49	1d
EPA 8270 by SIM LVE	Phenanthrene	7.3	ug/L	1.0	11/20/18 17:49	1d
EPA 8260	n-Butylbenzene	72.9	ug/L	50.0	11/28/18 02:37	M5
EPA 8260	n-Hexane	101	ug/L	50.0	11/28/18 02:37	M5
EPA 8260	n-Propylbenzene	143	ug/L	50.0	11/28/18 02:37	M5
50210433010	**SB-26-GW-2-12**					
EPA 8270 by SIM LVE	Acenaphthene	1.5	ug/L	1.0	11/20/18 18:00	1d
EPA 8270 by SIM LVE	Anthracene	0.12	ug/L	0.10	11/20/18 18:00	1d
EPA 8270 by SIM LVE	Fluorene	1.6	ug/L	1.0	11/20/18 18:00	1d
EPA 8270 by SIM LVE	1-Methylnaphthalene	37.7	ug/L	1.0	11/20/18 18:00	1d,N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	56.7	ug/L	1.0	11/20/18 18:00	1d
EPA 8270 by SIM LVE	Naphthalene	5.0	ug/L	1.0	11/20/18 18:00	1d

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50210433010	**SB-26-GW-2-12**					
EPA 8270 by SIM LVE	Phenanthrene	1.3	ug/L	1.0	11/20/18 18:00	1d
EPA 8260	Benzene	248	ug/L	50.0	11/28/18 04:25	M5
EPA 8260	Ethylbenzene	77.0	ug/L	50.0	11/28/18 04:25	M5
EPA 8260	n-Propylbenzene	88.2	ug/L	50.0	11/28/18 04:25	M5
EPA 8260	1,2,4-Trimethylbenzene	85.2	ug/L	50.0	11/28/18 04:25	M5
50210433011	**SB-28-GW-2-12**					
EPA 8270 by SIM LVE	Acenaphthene	31.2	ug/L	10.0	11/21/18 18:45	1d
EPA 8270 by SIM LVE	Anthracene	10.7	ug/L	1.0	11/21/18 18:45	1d
EPA 8270 by SIM LVE	Fluorene	33.5	ug/L	10.0	11/21/18 18:45	1d
EPA 8270 by SIM LVE	1-Methylnaphthalene	356	ug/L	10.0	11/21/18 18:45	1d,N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	402	ug/L	10.0	11/21/18 18:45	1d
EPA 8270 by SIM LVE	Phenanthrene	68.6	ug/L	10.0	11/21/18 18:45	1d
EPA 8260	Benzene	580	ug/L	50.0	11/28/18 05:01	M5
EPA 8260	n-Butylbenzene	173	ug/L	50.0	11/28/18 05:01	M5
EPA 8260	sec-Butylbenzene	108	ug/L	50.0	11/28/18 05:01	M5
EPA 8260	n-Hexane	104	ug/L	50.0	11/28/18 05:01	M5
EPA 8260	Isopropylbenzene (Cumene)	173	ug/L	50.0	11/28/18 05:01	M5
EPA 8260	n-Propylbenzene	422	ug/L	50.0	11/28/18 05:01	M5
50210433012	**SB-29-GW-4-9**					
EPA 8270 by SIM LVE	Acenaphthene	318	ug/L	100	11/21/18 18:56	1d
EPA 8270 by SIM LVE	Anthracene	185	ug/L	10.0	11/21/18 18:56	1d
EPA 8270 by SIM LVE	Fluorene	337	ug/L	100	11/21/18 18:56	1d
EPA 8270 by SIM LVE	1-Methylnaphthalene	2560	ug/L	100	11/21/18 18:56	1d,N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	2780	ug/L	100	11/21/18 18:56	1d
EPA 8270 by SIM LVE	Phenanthrene	964	ug/L	100	11/21/18 18:56	1d
EPA 8260	n-Butylbenzene	221	ug/L	50.0	11/28/18 06:50	M5
EPA 8260	sec-Butylbenzene	185	ug/L	50.0	11/28/18 06:50	M5
EPA 8260	n-Hexane	69.2	ug/L	50.0	11/28/18 06:50	M5
EPA 8260	Isopropylbenzene (Cumene)	226	ug/L	50.0	11/28/18 06:50	M5
EPA 8260	n-Propylbenzene	471	ug/L	50.0	11/28/18 06:50	M5
50210433013	**SB-30-GW-2-12**					
EPA 8270 by SIM LVE	Acenaphthene	193	ug/L	57.5	11/21/18 19:08	1d
EPA 8270 by SIM LVE	Anthracene	107	ug/L	5.7	11/21/18 19:08	1d
EPA 8270 by SIM LVE	Fluorene	214	ug/L	57.5	11/21/18 19:08	1d
EPA 8270 by SIM LVE	1-Methylnaphthalene	1750	ug/L	57.5	11/21/18 19:08	1d,N2
EPA 8270 by SIM LVE	2-Methylnaphthalene	2360	ug/L	57.5	11/21/18 19:08	1d
EPA 8270 by SIM LVE	Phenanthrene	627	ug/L	57.5	11/21/18 19:08	1d
EPA 8260	Benzene	505	ug/L	50.0	11/28/18 08:39	M5
EPA 8260	n-Butylbenzene	453	ug/L	50.0	11/28/18 08:39	M5
EPA 8260	sec-Butylbenzene	547	ug/L	50.0	11/28/18 08:39	M5
EPA 8260	n-Hexane	230	ug/L	50.0	11/28/18 08:39	M5
EPA 8260	Isopropylbenzene (Cumene)	630	ug/L	50.0	11/28/18 08:39	M5
EPA 8260	p-Isopropyltoluene	54.1	ug/L	50.0	11/28/18 08:39	M5
EPA 8260	n-Propylbenzene	1180	ug/L	50.0	11/28/18 08:39	M5
EPA 8260	Toluene	53.9	ug/L	50.0	11/28/18 08:39	M5
EPA 8260	Xylene (Total)	127	ug/L	100	11/28/18 08:39	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-25-2-4 **Lab ID: 50210433001** Collected: 11/15/18 14:21 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**42.1**	mg/kg	1.1	1	11/17/18 03:21	11/19/18 02:28	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.90**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	83-32-9	
Acenaphthylene	**0.34**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	208-96-8	
Anthracene	ND	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	120-12-7	
Benzo(a)anthracene	**0.065**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	56-55-3	
Benzo(a)pyrene	**0.037**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	50-32-8	
Benzo(b)fluoranthene	**0.060**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	205-99-2	
Benzo(g,h,i)perylene	**0.038**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	191-24-2	
Benzo(k)fluoranthene	**0.048**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	207-08-9	
Chrysene	**0.14**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	53-70-3	
Fluoranthene	**0.13**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	206-44-0	
Fluorene	**0.93**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	193-39-5	
1-Methylnaphthalene	**15.1**	mg/kg	0.14	25	11/21/18 09:58	11/28/18 18:29	90-12-0	N2
2-Methylnaphthalene	**18.8**	mg/kg	0.14	25	11/21/18 09:58	11/28/18 18:29	91-57-6	
Naphthalene	**1.3**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	91-20-3	ED
Phenanthrene	**1.5**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	85-01-8	
Pyrene	**0.16**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 02:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	93	%.	40-107	5	11/21/18 09:58	11/28/18 02:38	321-60-8	
p-Terphenyl-d14 (S)	86	%.	35-115	5	11/21/18 09:58	11/28/18 02:38	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.12	1		11/27/18 22:27	67-64-1	M5
Acrolein	ND	mg/kg	0.12	1		11/27/18 22:27	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.12	1		11/27/18 22:27	107-13-1	M5
Benzene	**0.15**	mg/kg	0.0060	1		11/27/18 22:27	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0060	1		11/27/18 22:27	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0060	1		11/27/18 22:27	75-27-4	M5
Bromoform	ND	mg/kg	0.0060	1		11/27/18 22:27	75-25-2	M5
Bromomethane	ND	mg/kg	0.0060	1		11/27/18 22:27	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.030	1		11/27/18 22:27	78-93-3	M5
n-Butylbenzene	**13.5**	mg/kg	0.65	100		11/29/18 14:41	104-51-8	M5
sec-Butylbenzene	**5.2**	mg/kg	0.16	25		11/28/18 23:35	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.012	1		11/27/18 22:27	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0060	1		11/27/18 22:27	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	108-90-7	M5
Chloroethane	ND	mg/kg	0.0060	1		11/27/18 22:27	75-00-3	M5
Chloroform	ND	mg/kg	0.0060	1		11/27/18 22:27	67-66-3	M5
Chloromethane	ND	mg/kg	0.0060	1		11/27/18 22:27	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0060	1		11/27/18 22:27	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-25-2-4 **Lab ID: 50210433001** Collected: 11/15/18 14:21 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	mg/kg	0.0060	1		11/27/18 22:27	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0060	1		11/27/18 22:27	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0060	1		11/27/18 22:27	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0060	1		11/27/18 22:27	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.12	1		11/27/18 22:27	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0060	1		11/27/18 22:27	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0060	1		11/27/18 22:27	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0060	1		11/27/18 22:27	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0060	1		11/27/18 22:27	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0060	1		11/27/18 22:27	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0060	1		11/27/18 22:27	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0060	1		11/27/18 22:27	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0060	1		11/27/18 22:27	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0060	1		11/27/18 22:27	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0060	1		11/27/18 22:27	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0060	1		11/27/18 22:27	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0060	1		11/27/18 22:27	10061-02-6	M5
Ethylbenzene	**0.13**	mg/kg	0.0060	1		11/27/18 22:27	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.12	1		11/27/18 22:27	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0060	1		11/27/18 22:27	87-68-3	M5
n-Hexane	**7.1**	mg/kg	0.16	25		11/28/18 23:35	110-54-3	M5
2-Hexanone	ND	mg/kg	0.12	1		11/27/18 22:27	591-78-6	M5
Iodomethane	ND	mg/kg	0.12	1		11/27/18 22:27	74-88-4	M5
Isopropylbenzene (Cumene)	**7.5**	mg/kg	0.16	25		11/28/18 23:35	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0060	1		11/27/18 22:27	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.024	1		11/27/18 22:27	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.030	1		11/27/18 22:27	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0060	1		11/27/18 22:27	1634-04-4	M5
Naphthalene	**0.013**	mg/kg	0.0060	1		11/27/18 22:27	91-20-3	M5
n-Propylbenzene	**29.0**	mg/kg	0.65	100		11/29/18 14:41	103-65-1	M5
Styrene	ND	mg/kg	0.0060	1		11/27/18 22:27	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0060	1		11/27/18 22:27	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0060	1		11/27/18 22:27	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0060	1		11/27/18 22:27	127-18-4	M5
Toluene	**0.058**	mg/kg	0.0060	1		11/27/18 22:27	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0060	1		11/27/18 22:27	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0060	1		11/27/18 22:27	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0060	1		11/27/18 22:27	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0060	1		11/27/18 22:27	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0060	1		11/27/18 22:27	96-18-4	M5
1,2,4-Trimethylbenzene	**0.026**	mg/kg	0.0060	1		11/27/18 22:27	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-25-2-4 **Lab ID: 50210433001** Collected: 11/15/18 14:21 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	mg/kg	0.0060	1		11/27/18 22:27	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.12	1		11/27/18 22:27	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0060	1		11/27/18 22:27	75-01-4	M5
Xylene (Total)	**0.27**	mg/kg	0.012	1		11/27/18 22:27	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	104	%.	80-127	1		11/27/18 22:27	1868-53-7	M5
Toluene-d8 (S)	433	%.	72-136	1		11/27/18 22:27	2037-26-5	M5,S5
4-Bromofluorobenzene (S)	123	%.	57-130	1		11/27/18 22:27	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**10.2**	%	0.10	1		11/16/18 16:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-26-2-4 **Lab ID: 50210433002** Collected: 11/15/18 14:30 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**16.2**	mg/kg	0.98	1	11/17/18 03:21	11/19/18 02:31	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.94**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	83-32-9	
Acenaphthylene	**0.33**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	208-96-8	
Anthracene	**0.26**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	120-12-7	
Benzo(a)anthracene	**0.022**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	56-55-3	
Benzo(a)pyrene	**0.015**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	50-32-8	
Benzo(b)fluoranthene	**0.015**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	205-99-2	
Benzo(g,h,i)perylene	**0.014**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	191-24-2	
Benzo(k)fluoranthene	**0.018**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	207-08-9	
Chrysene	**0.030**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	218-01-9	
Dibenz(a,h)anthracene	**0.0055**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	53-70-3	
Fluoranthene	**0.052**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	206-44-0	
Fluorene	**1.2**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.011**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	193-39-5	
1-Methylnaphthalene	**21.3**	mg/kg	0.11	20	11/21/18 09:58	11/28/18 18:45	90-12-0	N2
2-Methylnaphthalene	**32.9**	mg/kg	0.11	20	11/21/18 09:58	11/28/18 18:45	91-57-6	
Naphthalene	**0.83**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	91-20-3	
Phenanthrene	**1.3**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	85-01-8	
Pyrene	**0.065**	mg/kg	0.0054	1	11/21/18 09:58	11/28/18 02:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	87	%.	40-107	1	11/21/18 09:58	11/28/18 02:54	321-60-8	
p-Terphenyl-d14 (S)	85	%.	35-115	1	11/21/18 09:58	11/28/18 02:54	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.12	1		11/27/18 23:01	67-64-1	M5
Acrolein	ND	mg/kg	0.12	1		11/27/18 23:01	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.12	1		11/27/18 23:01	107-13-1	M5
Benzene	**4.1**	mg/kg	0.13	25		11/29/18 00:09	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0060	1		11/27/18 23:01	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0060	1		11/27/18 23:01	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0060	1		11/27/18 23:01	75-27-4	M5
Bromoform	ND	mg/kg	0.0060	1		11/27/18 23:01	75-25-2	M5
Bromomethane	ND	mg/kg	0.0060	1		11/27/18 23:01	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.030	1		11/27/18 23:01	78-93-3	M5
n-Butylbenzene	**6.7**	mg/kg	0.13	25		11/29/18 00:09	104-51-8	M5
sec-Butylbenzene	**2.5**	mg/kg	0.13	25		11/29/18 00:09	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0060	1		11/27/18 23:01	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.012	1		11/27/18 23:01	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0060	1		11/27/18 23:01	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0060	1		11/27/18 23:01	108-90-7	M5
Chloroethane	ND	mg/kg	0.0060	1		11/27/18 23:01	75-00-3	M5
Chloroform	ND	mg/kg	0.0060	1		11/27/18 23:01	67-66-3	M5
Chloromethane	ND	mg/kg	0.0060	1		11/27/18 23:01	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0060	1		11/27/18 23:01	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-26-2-4 **Lab ID: 50210433002** Collected: 11/15/18 14:30 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	mg/kg	0.0060	1		11/27/18 23:01	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0060	1		11/27/18 23:01	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0060	1		11/27/18 23:01	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0060	1		11/27/18 23:01	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 23:01	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 23:01	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 23:01	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.12	1		11/27/18 23:01	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0060	1		11/27/18 23:01	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0060	1		11/27/18 23:01	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0060	1		11/27/18 23:01	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0060	1		11/27/18 23:01	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0060	1		11/27/18 23:01	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0060	1		11/27/18 23:01	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0060	1		11/27/18 23:01	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0060	1		11/27/18 23:01	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0060	1		11/27/18 23:01	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0060	1		11/27/18 23:01	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0060	1		11/27/18 23:01	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0060	1		11/27/18 23:01	10061-02-6	M5
Ethylbenzene	**2.9**	mg/kg	0.13	25		11/29/18 00:09	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.12	1		11/27/18 23:01	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0060	1		11/27/18 23:01	87-68-3	M5
n-Hexane	**7.4**	mg/kg	0.13	25		11/29/18 00:09	110-54-3	M5
2-Hexanone	ND	mg/kg	0.12	1		11/27/18 23:01	591-78-6	M5
Iodomethane	ND	mg/kg	0.12	1		11/27/18 23:01	74-88-4	M5
Isopropylbenzene (Cumene)	**5.1**	mg/kg	0.13	25		11/29/18 00:09	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0060	1		11/27/18 23:01	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.024	1		11/27/18 23:01	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.030	1		11/27/18 23:01	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0060	1		11/27/18 23:01	1634-04-4	M5
Naphthalene	**0.040**	mg/kg	0.0060	1		11/27/18 23:01	91-20-3	M5
n-Propylbenzene	**16.8**	mg/kg	0.53	100		11/29/18 15:05	103-65-1	M5
Styrene	ND	mg/kg	0.0060	1		11/27/18 23:01	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0060	1		11/27/18 23:01	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0060	1		11/27/18 23:01	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0060	1		11/27/18 23:01	127-18-4	M5
Toluene	**0.076**	mg/kg	0.0060	1		11/27/18 23:01	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 23:01	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0060	1		11/27/18 23:01	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0060	1		11/27/18 23:01	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0060	1		11/27/18 23:01	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0060	1		11/27/18 23:01	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0060	1		11/27/18 23:01	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0060	1		11/27/18 23:01	96-18-4	M5
1,2,4-Trimethylbenzene	**0.10**	mg/kg	0.0060	1		11/27/18 23:01	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-26-2-4 **Lab ID: 50210433002** Collected: 11/15/18 14:30 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	**0.078**	mg/kg	0.0060	1		11/27/18 23:01	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.12	1		11/27/18 23:01	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0060	1		11/27/18 23:01	75-01-4	M5
Xylene (Total)	**0.32**	mg/kg	0.012	1		11/27/18 23:01	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	104	%.	80-127	1		11/27/18 23:01	1868-53-7	M5
Toluene-d8 (S)	171	%.	72-136	1		11/27/18 23:01	2037-26-5	M5,S5
4-Bromofluorobenzene (S)	109	%.	57-130	1		11/27/18 23:01	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**8.9**	%	0.10	1		11/16/18 16:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-27-2-4 **Lab ID: 50210433003** Collected: 11/15/18 14:40 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**56.5**	mg/kg	1.1	1	11/17/18 03:21	11/19/18 02:33	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**1.4**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	83-32-9	
Acenaphthylene	**0.56**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	208-96-8	
Anthracene	**0.69**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	120-12-7	
Benzo(a)anthracene	**0.12**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	56-55-3	
Benzo(a)pyrene	**0.12**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	50-32-8	
Benzo(b)fluoranthene	**0.14**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	205-99-2	
Benzo(g,h,i)perylene	**0.11**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	191-24-2	
Benzo(k)fluoranthene	**0.095**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	207-08-9	
Chrysene	**0.14**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	218-01-9	
Dibenz(a,h)anthracene	**0.046**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	53-70-3	
Fluoranthene	**0.26**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	206-44-0	
Fluorene	**1.7**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.093**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	193-39-5	
1-Methylnaphthalene	**42.7**	mg/kg	0.29	50	11/21/18 09:58	11/28/18 19:02	90-12-0	N2
2-Methylnaphthalene	**56.6**	mg/kg	0.29	50	11/21/18 09:58	11/28/18 19:02	91-57-6	
Naphthalene	**3.5**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	91-20-3	ED
Phenanthrene	**3.4**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	85-01-8	
Pyrene	**0.29**	mg/kg	0.029	5	11/21/18 09:58	11/28/18 03:11	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	40-107	5	11/21/18 09:58	11/28/18 03:11	321-60-8	
p-Terphenyl-d14 (S)	73	%.	35-115	5	11/21/18 09:58	11/28/18 03:11	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.14	1		11/27/18 23:34	67-64-1	M5
Acrolein	ND	mg/kg	0.14	1		11/27/18 23:34	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.14	1		11/27/18 23:34	107-13-1	M5
Benzene	**4.0**	mg/kg	0.19	25		11/29/18 00:42	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0069	1		11/27/18 23:34	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0069	1		11/27/18 23:34	75-27-4	M5
Bromoform	ND	mg/kg	0.0069	1		11/27/18 23:34	75-25-2	M5
Bromomethane	ND	mg/kg	0.0069	1		11/27/18 23:34	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.035	1		11/27/18 23:34	78-93-3	M5
n-Butylbenzene	**14.7**	mg/kg	0.75	100		11/29/18 15:30	104-51-8	M5
sec-Butylbenzene	**5.8**	mg/kg	0.19	25		11/29/18 00:42	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.014	1		11/27/18 23:34	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0069	1		11/27/18 23:34	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	108-90-7	M5
Chloroethane	ND	mg/kg	0.0069	1		11/27/18 23:34	75-00-3	M5
Chloroform	ND	mg/kg	0.0069	1		11/27/18 23:34	67-66-3	M5
Chloromethane	ND	mg/kg	0.0069	1		11/27/18 23:34	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0069	1		11/27/18 23:34	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-27-2-4 **Lab ID: 50210433003** Collected: 11/15/18 14:40 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	mg/kg	0.0069	1		11/27/18 23:34	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0069	1		11/27/18 23:34	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0069	1		11/27/18 23:34	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0069	1		11/27/18 23:34	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.14	1		11/27/18 23:34	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0069	1		11/27/18 23:34	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0069	1		11/27/18 23:34	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0069	1		11/27/18 23:34	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0069	1		11/27/18 23:34	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0069	1		11/27/18 23:34	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0069	1		11/27/18 23:34	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0069	1		11/27/18 23:34	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0069	1		11/27/18 23:34	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0069	1		11/27/18 23:34	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0069	1		11/27/18 23:34	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0069	1		11/27/18 23:34	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0069	1		11/27/18 23:34	10061-02-6	M5
Ethylbenzene	**5.2**	mg/kg	0.19	25		11/29/18 00:42	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.14	1		11/27/18 23:34	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0069	1		11/27/18 23:34	87-68-3	M5
n-Hexane	**9.2**	mg/kg	0.19	25		11/29/18 00:42	110-54-3	M5
2-Hexanone	ND	mg/kg	0.14	1		11/27/18 23:34	591-78-6	M5
Iodomethane	ND	mg/kg	0.14	1		11/27/18 23:34	74-88-4	M5
Isopropylbenzene (Cumene)	**8.4**	mg/kg	0.19	25		11/29/18 00:42	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0069	1		11/27/18 23:34	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.028	1		11/27/18 23:34	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.035	1		11/27/18 23:34	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0069	1		11/27/18 23:34	1634-04-4	M5
Naphthalene	**0.034**	mg/kg	0.0069	1		11/27/18 23:34	91-20-3	M5
n-Propylbenzene	**30.1**	mg/kg	0.75	100		11/29/18 15:30	103-65-1	M5
Styrene	ND	mg/kg	0.0069	1		11/27/18 23:34	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0069	1		11/27/18 23:34	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0069	1		11/27/18 23:34	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0069	1		11/27/18 23:34	127-18-4	M5
Toluene	**0.11**	mg/kg	0.0069	1		11/27/18 23:34	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0069	1		11/27/18 23:34	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0069	1		11/27/18 23:34	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0069	1		11/27/18 23:34	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0069	1		11/27/18 23:34	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0069	1		11/27/18 23:34	96-18-4	M5
1,2,4-Trimethylbenzene	**0.070**	mg/kg	0.0069	1		11/27/18 23:34	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-27-2-4 **Lab ID: 50210433003** Collected: 11/15/18 14:40 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	mg/kg	0.0069	1		11/27/18 23:34	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.14	1		11/27/18 23:34	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0069	1		11/27/18 23:34	75-01-4	M5
Xylene (Total)	**0.43**	mg/kg	0.014	1		11/27/18 23:34	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	111	%.	80-127	1		11/27/18 23:34	1868-53-7	M5
Toluene-d8 (S)	236	%.	72-136	1		11/27/18 23:34	2037-26-5	M5,S5
4-Bromofluorobenzene (S)	179	%.	57-130	1		11/27/18 23:34	460-00-4	M5,S5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**14.3**	%	0.10	1		11/16/18 16:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-27-6-7 **Lab ID: 50210433004** Collected: 11/15/18 14:45 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**48.8**	mg/kg	1.3	1	11/17/18 03:21	11/19/18 02:35	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.42**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	83-32-9	
Acenaphthylene	**0.14**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	208-96-8	
Anthracene	**0.24**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	120-12-7	
Benzo(a)anthracene	**0.0084**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	207-08-9	
Chrysene	**0.014**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	53-70-3	
Fluoranthene	**0.034**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	206-44-0	
Fluorene	**0.69**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	193-39-5	
1-Methylnaphthalene	**14.1**	mg/kg	0.14	20	11/21/18 09:58	11/28/18 19:18	90-12-0	N2
2-Methylnaphthalene	**22.6**	mg/kg	0.14	20	11/21/18 09:58	11/28/18 19:18	91-57-6	
Naphthalene	ND	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	91-20-3	
Phenanthrene	**1.7**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	85-01-8	
Pyrene	**0.075**	mg/kg	0.0070	1	11/21/18 09:58	11/28/18 03:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	40-107	1	11/21/18 09:58	11/28/18 03:27	321-60-8	
p-Terphenyl-d14 (S)	87	%.	35-115	1	11/21/18 09:58	11/28/18 03:27	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		11/28/18 00:08	67-64-1	M5
Acrolein	ND	mg/kg	0.10	1		11/28/18 00:08	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.10	1		11/28/18 00:08	107-13-1	M5
Benzene	**4.2**	mg/kg	0.15	25		11/29/18 01:16	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0051	1		11/28/18 00:08	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0051	1		11/28/18 00:08	75-27-4	M5
Bromoform	ND	mg/kg	0.0051	1		11/28/18 00:08	75-25-2	M5
Bromomethane	ND	mg/kg	0.0051	1		11/28/18 00:08	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.026	1		11/28/18 00:08	78-93-3	M5
n-Butylbenzene	**4.9**	mg/kg	0.15	25		11/29/18 01:16	104-51-8	M5
sec-Butylbenzene	**1.9**	mg/kg	0.15	25		11/29/18 01:16	135-98-8	M5
tert-Butylbenzene	**0.038**	mg/kg	0.0051	1		11/28/18 00:08	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.010	1		11/28/18 00:08	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0051	1		11/28/18 00:08	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	108-90-7	M5
Chloroethane	ND	mg/kg	0.0051	1		11/28/18 00:08	75-00-3	M5
Chloroform	ND	mg/kg	0.0051	1		11/28/18 00:08	67-66-3	M5
Chloromethane	ND	mg/kg	0.0051	1		11/28/18 00:08	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0051	1		11/28/18 00:08	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-27-6-7 **Lab ID: 50210433004** Collected: 11/15/18 14:45 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	mg/kg	0.0051	1		11/28/18 00:08	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0051	1		11/28/18 00:08	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0051	1		11/28/18 00:08	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0051	1		11/28/18 00:08	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/28/18 00:08	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0051	1		11/28/18 00:08	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0051	1		11/28/18 00:08	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0051	1		11/28/18 00:08	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0051	1		11/28/18 00:08	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0051	1		11/28/18 00:08	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0051	1		11/28/18 00:08	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0051	1		11/28/18 00:08	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0051	1		11/28/18 00:08	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0051	1		11/28/18 00:08	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0051	1		11/28/18 00:08	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0051	1		11/28/18 00:08	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0051	1		11/28/18 00:08	10061-02-6	M5
Ethylbenzene	**0.86**	mg/kg	0.15	25		11/29/18 01:16	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.10	1		11/28/18 00:08	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0051	1		11/28/18 00:08	87-68-3	M5
n-Hexane	**13.5**	mg/kg	0.61	100		11/29/18 01:49	110-54-3	M5
2-Hexanone	ND	mg/kg	0.10	1		11/28/18 00:08	591-78-6	M5
Iodomethane	ND	mg/kg	0.10	1		11/28/18 00:08	74-88-4	M5
Isopropylbenzene (Cumene)	**4.0**	mg/kg	0.15	25		11/29/18 01:16	98-82-8	M5
p-Isopropyltoluene	**0.080**	mg/kg	0.0051	1		11/28/18 00:08	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.020	1		11/28/18 00:08	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		11/28/18 00:08	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0051	1		11/28/18 00:08	1634-04-4	M5
Naphthalene	ND	mg/kg	0.0051	1		11/28/18 00:08	91-20-3	M5
n-Propylbenzene	**13.1**	mg/kg	0.61	100		11/29/18 01:49	103-65-1	M5
Styrene	ND	mg/kg	0.0051	1		11/28/18 00:08	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0051	1		11/28/18 00:08	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0051	1		11/28/18 00:08	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0051	1		11/28/18 00:08	127-18-4	M5
Toluene	**0.11**	mg/kg	0.0051	1		11/28/18 00:08	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0051	1		11/28/18 00:08	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0051	1		11/28/18 00:08	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0051	1		11/28/18 00:08	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0051	1		11/28/18 00:08	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0051	1		11/28/18 00:08	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-27-6-7 **Lab ID: 50210433004** Collected: 11/15/18 14:45 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	mg/kg	0.0051	1		11/28/18 00:08	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.10	1		11/28/18 00:08	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0051	1		11/28/18 00:08	75-01-4	M5
Xylene (Total)	**0.22**	mg/kg	0.010	1		11/28/18 00:08	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	91	%.	80-127	1		11/28/18 00:08	1868-53-7	M5
Toluene-d8 (S)	434	%.	72-136	1		11/28/18 00:08	2037-26-5	M5,S5
4-Bromofluorobenzene (S)	325	%.	57-130	1		11/28/18 00:08	460-00-4	M5,S5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**29.2**	%	0.10	1		11/16/18 17:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-2-4 **Lab ID: 50210433005** Collected: 11/15/18 14:55 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**60.2**	mg/kg	0.97	1	11/17/18 03:21	11/19/18 02:43	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.95**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	83-32-9	
Acenaphthylene	**0.35**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	208-96-8	
Anthracene	**0.81**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	120-12-7	
Benzo(a)anthracene	**0.14**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	56-55-3	
Benzo(a)pyrene	**0.17**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	50-32-8	
Benzo(b)fluoranthene	**0.16**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	205-99-2	
Benzo(g,h,i)perylene	**0.16**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	191-24-2	
Benzo(k)fluoranthene	**0.14**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	207-08-9	
Chrysene	**0.17**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	218-01-9	
Dibenz(a,h)anthracene	**0.092**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	53-70-3	
Fluoranthene	**0.29**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	206-44-0	
Fluorene	**1.6**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.16**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	193-39-5	
1-Methylnaphthalene	**25.0**	mg/kg	0.28	50	11/21/18 09:58	11/28/18 19:35	90-12-0	N2
2-Methylnaphthalene	**28.9**	mg/kg	0.28	50	11/21/18 09:58	11/28/18 19:35	91-57-6	
Naphthalene	**1.0**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	91-20-3	ED
Phenanthrene	**3.5**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	85-01-8	
Pyrene	**0.42**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 03:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	40-107	5	11/21/18 09:58	11/28/18 03:44	321-60-8	
p-Terphenyl-d14 (S)	77	%.	35-115	5	11/21/18 09:58	11/28/18 03:44	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.13	1		11/28/18 00:41	67-64-1	M5
Acrolein	ND	mg/kg	0.13	1		11/28/18 00:41	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.13	1		11/28/18 00:41	107-13-1	M5
Benzene	**0.13**	mg/kg	0.0067	1		11/28/18 00:41	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0067	1		11/28/18 00:41	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0067	1		11/28/18 00:41	75-27-4	M5
Bromoform	ND	mg/kg	0.0067	1		11/28/18 00:41	75-25-2	M5
Bromomethane	ND	mg/kg	0.0067	1		11/28/18 00:41	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.033	1		11/28/18 00:41	78-93-3	M5
n-Butylbenzene	**3.2**	mg/kg	0.21	25		11/29/18 02:23	104-51-8	M5
sec-Butylbenzene	**0.22**	mg/kg	0.0067	1		11/28/18 00:41	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.013	1		11/28/18 00:41	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0067	1		11/28/18 00:41	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	108-90-7	M5
Chloroethane	ND	mg/kg	0.0067	1		11/28/18 00:41	75-00-3	M5
Chloroform	**0.091**	mg/kg	0.0067	1		11/28/18 00:41	67-66-3	M5
Chloromethane	ND	mg/kg	0.0067	1		11/28/18 00:41	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0067	1		11/28/18 00:41	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-2-4 **Lab ID: 50210433005** Collected: 11/15/18 14:55 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	mg/kg	0.0067	1		11/28/18 00:41	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0067	1		11/28/18 00:41	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0067	1		11/28/18 00:41	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0067	1		11/28/18 00:41	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		11/28/18 00:41	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0067	1		11/28/18 00:41	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0067	1		11/28/18 00:41	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0067	1		11/28/18 00:41	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0067	1		11/28/18 00:41	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0067	1		11/28/18 00:41	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0067	1		11/28/18 00:41	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0067	1		11/28/18 00:41	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0067	1		11/28/18 00:41	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0067	1		11/28/18 00:41	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0067	1		11/28/18 00:41	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0067	1		11/28/18 00:41	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0067	1		11/28/18 00:41	10061-02-6	M5
Ethylbenzene	**0.019**	mg/kg	0.0067	1		11/28/18 00:41	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.13	1		11/28/18 00:41	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0067	1		11/28/18 00:41	87-68-3	M5
n-Hexane	**0.081**	mg/kg	0.0067	1		11/28/18 00:41	110-54-3	M5
2-Hexanone	ND	mg/kg	0.13	1		11/28/18 00:41	591-78-6	M5
Iodomethane	ND	mg/kg	0.13	1		11/28/18 00:41	74-88-4	M5
Isopropylbenzene (Cumene)	**0.32**	mg/kg	0.0067	1		11/28/18 00:41	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0067	1		11/28/18 00:41	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.027	1		11/28/18 00:41	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.033	1		11/28/18 00:41	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0067	1		11/28/18 00:41	1634-04-4	M5
Naphthalene	ND	mg/kg	0.0067	1		11/28/18 00:41	91-20-3	M5
n-Propylbenzene	**4.6**	mg/kg	0.21	25		11/29/18 02:23	103-65-1	M5
Styrene	ND	mg/kg	0.0067	1		11/28/18 00:41	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0067	1		11/28/18 00:41	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0067	1		11/28/18 00:41	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0067	1		11/28/18 00:41	127-18-4	M5
Toluene	**0.035**	mg/kg	0.0067	1		11/28/18 00:41	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0067	1		11/28/18 00:41	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0067	1		11/28/18 00:41	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0067	1		11/28/18 00:41	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0067	1		11/28/18 00:41	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0067	1		11/28/18 00:41	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-2-4 **Lab ID: 50210433005** Collected: 11/15/18 14:55 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	mg/kg	0.0067	1		11/28/18 00:41	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.13	1		11/28/18 00:41	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0067	1		11/28/18 00:41	75-01-4	M5
Xylene (Total)	**0.15**	mg/kg	0.013	1		11/28/18 00:41	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	82	%.	80-127	1		11/28/18 00:41	1868-53-7	M5
Toluene-d8 (S)	182	%.	72-136	1		11/28/18 00:41	2037-26-5	M5,S5
4-Bromofluorobenzene (S)	153	%.	57-130	1		11/28/18 00:41	460-00-4	M5,S5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**10**	%	0.10	1		11/16/18 17:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-6-8 **Lab ID: 50210433006** Collected: 11/15/18 14:50 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**14.9**	mg/kg	1.2	1	11/17/18 03:21	11/19/18 02:45	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.29**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	83-32-9	
Acenaphthylene	**0.099**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	208-96-8	
Anthracene	**0.20**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	120-12-7	
Benzo(a)anthracene	**0.0064**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	207-08-9	
Chrysene	**0.010**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	53-70-3	
Fluoranthene	**0.024**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	206-44-0	
Fluorene	**0.44**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	193-39-5	
1-Methylnaphthalene	**5.8**	mg/kg	0.062	10	11/21/18 09:58	11/28/18 19:51	90-12-0	N2
2-Methylnaphthalene	**6.9**	mg/kg	0.062	10	11/21/18 09:58	11/28/18 19:51	91-57-6	
Naphthalene	ND	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	91-20-3	
Phenanthrene	**1.2**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	85-01-8	
Pyrene	**0.060**	mg/kg	0.0062	1	11/21/18 09:58	11/28/18 04:00	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	64	%.	40-107	1	11/21/18 09:58	11/28/18 04:00	321-60-8	
p-Terphenyl-d14 (S)	87	%.	35-115	1	11/21/18 09:58	11/28/18 04:00	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		11/28/18 01:15	67-64-1	M5
Acrolein	ND	mg/kg	0.11	1		11/28/18 01:15	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.11	1		11/28/18 01:15	107-13-1	M5
Benzene	**0.18**	mg/kg	0.0055	1		11/28/18 01:15	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0055	1		11/28/18 01:15	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0055	1		11/28/18 01:15	75-27-4	M5
Bromoform	ND	mg/kg	0.0055	1		11/28/18 01:15	75-25-2	M5
Bromomethane	ND	mg/kg	0.0055	1		11/28/18 01:15	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.027	1		11/28/18 01:15	78-93-3	M5
n-Butylbenzene	**1.2**	mg/kg	0.12	25		11/29/18 02:56	104-51-8	M5
sec-Butylbenzene	**0.27**	mg/kg	0.0055	1		11/28/18 01:15	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.011	1		11/28/18 01:15	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0055	1		11/28/18 01:15	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	108-90-7	M5
Chloroethane	ND	mg/kg	0.0055	1		11/28/18 01:15	75-00-3	M5
Chloroform	ND	mg/kg	0.0055	1		11/28/18 01:15	67-66-3	M5
Chloromethane	ND	mg/kg	0.0055	1		11/28/18 01:15	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0055	1		11/28/18 01:15	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-6-8 **Lab ID: 50210433006** Collected: 11/15/18 14:50 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	mg/kg	0.0055	1		11/28/18 01:15	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0055	1		11/28/18 01:15	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0055	1		11/28/18 01:15	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0055	1		11/28/18 01:15	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		11/28/18 01:15	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0055	1		11/28/18 01:15	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0055	1		11/28/18 01:15	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0055	1		11/28/18 01:15	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0055	1		11/28/18 01:15	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0055	1		11/28/18 01:15	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0055	1		11/28/18 01:15	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0055	1		11/28/18 01:15	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0055	1		11/28/18 01:15	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0055	1		11/28/18 01:15	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0055	1		11/28/18 01:15	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0055	1		11/28/18 01:15	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0055	1		11/28/18 01:15	10061-02-6	M5
Ethylbenzene	**0.035**	mg/kg	0.0055	1		11/28/18 01:15	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.11	1		11/28/18 01:15	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0055	1		11/28/18 01:15	87-68-3	M5
n-Hexane	**4.8**	mg/kg	0.12	25		11/29/18 02:56	110-54-3	M5
2-Hexanone	ND	mg/kg	0.11	1		11/28/18 01:15	591-78-6	M5
Iodomethane	ND	mg/kg	0.11	1		11/28/18 01:15	74-88-4	M5
Isopropylbenzene (Cumene)	**0.66**	mg/kg	0.12	25		11/29/18 02:56	98-82-8	M5
p-Isopropyltoluene	**0.071**	mg/kg	0.0055	1		11/28/18 01:15	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.022	1		11/28/18 01:15	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		11/28/18 01:15	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0055	1		11/28/18 01:15	1634-04-4	M5
Naphthalene	ND	mg/kg	0.0055	1		11/28/18 01:15	91-20-3	M5
n-Propylbenzene	**1.9**	mg/kg	0.12	25		11/29/18 02:56	103-65-1	M5
Styrene	ND	mg/kg	0.0055	1		11/28/18 01:15	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0055	1		11/28/18 01:15	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0055	1		11/28/18 01:15	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0055	1		11/28/18 01:15	127-18-4	M5
Toluene	**0.021**	mg/kg	0.0055	1		11/28/18 01:15	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0055	1		11/28/18 01:15	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0055	1		11/28/18 01:15	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0055	1		11/28/18 01:15	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0055	1		11/28/18 01:15	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0055	1		11/28/18 01:15	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-6-8 **Lab ID: 50210433006** Collected: 11/15/18 14:50 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	mg/kg	0.0055	1		11/28/18 01:15	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.11	1		11/28/18 01:15	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0055	1		11/28/18 01:15	75-01-4	M5
Xylene (Total)	**0.015**	mg/kg	0.011	1		11/28/18 01:15	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	66	%.	80-127	1		11/28/18 01:15	1868-53-7	M5,S5
Toluene-d8 (S)	166	%.	72-136	1		11/28/18 01:15	2037-26-5	M5,S5
4-Bromofluorobenzene (S)	121	%.	57-130	1		11/28/18 01:15	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.7**	%	0.10	1		11/16/18 17:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-29-2-4 **Lab ID: 50210433007** Collected: 11/15/18 15:10 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**77.9**	mg/kg	1.1	1	11/17/18 03:21	11/19/18 02:47	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.95**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	83-32-9	
Acenaphthylene	**0.30**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	208-96-8	
Anthracene	**0.81**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	120-12-7	
Benzo(a)anthracene	**0.067**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	56-55-3	
Benzo(a)pyrene	**0.051**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	50-32-8	
Benzo(b)fluoranthene	**0.064**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	205-99-2	
Benzo(g,h,i)perylene	**0.071**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	191-24-2	
Benzo(k)fluoranthene	**0.055**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	207-08-9	
Chrysene	**0.095**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	53-70-3	
Fluoranthene	**0.20**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	206-44-0	
Fluorene	**1.4**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.056**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	193-39-5	
1-Methylnaphthalene	**10.8**	mg/kg	0.14	25	11/21/18 09:58	11/28/18 20:08	90-12-0	N2
2-Methylnaphthalene	**5.3**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	91-57-6	
Naphthalene	ND	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	91-20-3	ED
Phenanthrene	**3.0**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	85-01-8	
Pyrene	**0.42**	mg/kg	0.028	5	11/21/18 09:58	11/28/18 04:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67	%.	40-107	5	11/21/18 09:58	11/28/18 04:17	321-60-8	
p-Terphenyl-d14 (S)	88	%.	35-115	5	11/21/18 09:58	11/28/18 04:17	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.083	1		11/28/18 01:49	67-64-1	M5
Acrolein	ND	mg/kg	0.083	1		11/28/18 01:49	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.083	1		11/28/18 01:49	107-13-1	M5
Benzene	**0.0043**	mg/kg	0.0042	1		11/28/18 01:49	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0042	1		11/28/18 01:49	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0042	1		11/28/18 01:49	75-27-4	M5
Bromoform	ND	mg/kg	0.0042	1		11/28/18 01:49	75-25-2	M5
Bromomethane	ND	mg/kg	0.0042	1		11/28/18 01:49	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.021	1		11/28/18 01:49	78-93-3	M5
n-Butylbenzene	**0.055**	mg/kg	0.0042	1		11/28/18 01:49	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0083	1		11/28/18 01:49	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0042	1		11/28/18 01:49	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	108-90-7	M5
Chloroethane	ND	mg/kg	0.0042	1		11/28/18 01:49	75-00-3	M5
Chloroform	ND	mg/kg	0.0042	1		11/28/18 01:49	67-66-3	M5
Chloromethane	ND	mg/kg	0.0042	1		11/28/18 01:49	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0042	1		11/28/18 01:49	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-29-2-4 **Lab ID: 50210433007** Collected: 11/15/18 15:10 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	mg/kg	0.0042	1		11/28/18 01:49	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0042	1		11/28/18 01:49	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	1		11/28/18 01:49	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0042	1		11/28/18 01:49	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.083	1		11/28/18 01:49	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0042	1		11/28/18 01:49	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0042	1		11/28/18 01:49	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0042	1		11/28/18 01:49	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0042	1		11/28/18 01:49	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/28/18 01:49	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/28/18 01:49	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0042	1		11/28/18 01:49	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0042	1		11/28/18 01:49	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0042	1		11/28/18 01:49	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0042	1		11/28/18 01:49	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/28/18 01:49	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/28/18 01:49	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.083	1		11/28/18 01:49	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	1		11/28/18 01:49	87-68-3	M5
n-Hexane	**0.0047**	mg/kg	0.0042	1		11/28/18 01:49	110-54-3	M5
2-Hexanone	ND	mg/kg	0.083	1		11/28/18 01:49	591-78-6	M5
Iodomethane	ND	mg/kg	0.083	1		11/28/18 01:49	74-88-4	M5
Isopropylbenzene (Cumene)	**0.027**	mg/kg	0.0042	1		11/28/18 01:49	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0042	1		11/28/18 01:49	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.017	1		11/28/18 01:49	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.021	1		11/28/18 01:49	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0042	1		11/28/18 01:49	1634-04-4	M5
Naphthalene	ND	mg/kg	0.0042	1		11/28/18 01:49	91-20-3	M5
n-Propylbenzene	**0.048**	mg/kg	0.0042	1		11/28/18 01:49	103-65-1	M5
Styrene	ND	mg/kg	0.0042	1		11/28/18 01:49	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/28/18 01:49	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/28/18 01:49	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0042	1		11/28/18 01:49	127-18-4	M5
Toluene	ND	mg/kg	0.0042	1		11/28/18 01:49	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0042	1		11/28/18 01:49	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0042	1		11/28/18 01:49	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0042	1		11/28/18 01:49	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0042	1		11/28/18 01:49	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0042	1		11/28/18 01:49	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-29-2-4 **Lab ID: 50210433007** Collected: 11/15/18 15:10 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	mg/kg	0.0042	1		11/28/18 01:49	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.083	1		11/28/18 01:49	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0042	1		11/28/18 01:49	75-01-4	M5
Xylene (Total)	**0.027**	mg/kg	0.0083	1		11/28/18 01:49	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	133	%.	80-127	1		11/28/18 01:49	1868-53-7	M5,S5
Toluene-d8 (S)	129	%.	72-136	1		11/28/18 01:49	2037-26-5	M5
4-Bromofluorobenzene (S)	210	%.	57-130	1		11/28/18 01:49	460-00-4	M5,S5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**10.4**	%	0.10	1		11/16/18 17:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-30-4-6 **Lab ID: 50210433008** Collected: 11/15/18 15:20 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**17.8**	mg/kg	1.1	1	11/17/18 03:21	11/19/18 02:49	7439-92-1	
8270 PAH Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.20**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	83-32-9	
Acenaphthylene	**0.081**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	208-96-8	
Anthracene	**0.15**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	120-12-7	
Benzo(a)anthracene	**0.0066**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	207-08-9	
Chrysene	**0.0096**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	53-70-3	
Fluoranthene	**0.019**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	206-44-0	
Fluorene	**0.30**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	193-39-5	
1-Methylnaphthalene	**3.4**	mg/kg	0.032	5	11/21/18 09:58	11/28/18 20:24	90-12-0	N2
2-Methylnaphthalene	**4.7**	mg/kg	0.032	5	11/21/18 09:58	11/28/18 20:24	91-57-6	
Naphthalene	ND	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	91-20-3	
Phenanthrene	**0.81**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	85-01-8	
Pyrene	**0.045**	mg/kg	0.0063	1	11/21/18 09:58	11/28/18 04:33	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	40-107	1	11/21/18 09:58	11/28/18 04:33	321-60-8	
p-Terphenyl-d14 (S)	78	%.	35-115	1	11/21/18 09:58	11/28/18 04:33	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		11/28/18 02:22	67-64-1	M5
Acrolein	ND	mg/kg	0.10	1		11/28/18 02:22	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.10	1		11/28/18 02:22	107-13-1	M5
Benzene	ND	mg/kg	0.0050	1		11/28/18 02:22	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0050	1		11/28/18 02:22	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0050	1		11/28/18 02:22	75-27-4	M5
Bromoform	ND	mg/kg	0.0050	1		11/28/18 02:22	75-25-2	M5
Bromomethane	ND	mg/kg	0.0050	1		11/28/18 02:22	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/28/18 02:22	78-93-3	M5
n-Butylbenzene	**0.16**	mg/kg	0.0050	1		11/28/18 02:22	104-51-8	M5
sec-Butylbenzene	**0.22**	mg/kg	0.0050	1		11/28/18 02:22	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.010	1		11/28/18 02:22	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0050	1		11/28/18 02:22	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	108-90-7	M5
Chloroethane	ND	mg/kg	0.0050	1		11/28/18 02:22	75-00-3	M5
Chloroform	ND	mg/kg	0.0050	1		11/28/18 02:22	67-66-3	M5
Chloromethane	ND	mg/kg	0.0050	1		11/28/18 02:22	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0050	1		11/28/18 02:22	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-30-4-6 **Lab ID: 50210433008** Collected: 11/15/18 15:20 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	mg/kg	0.0050	1		11/28/18 02:22	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0050	1		11/28/18 02:22	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		11/28/18 02:22	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0050	1		11/28/18 02:22	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/28/18 02:22	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		11/28/18 02:22	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0050	1		11/28/18 02:22	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0050	1		11/28/18 02:22	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0050	1		11/28/18 02:22	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/28/18 02:22	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/28/18 02:22	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0050	1		11/28/18 02:22	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0050	1		11/28/18 02:22	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0050	1		11/28/18 02:22	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0050	1		11/28/18 02:22	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/28/18 02:22	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/28/18 02:22	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.10	1		11/28/18 02:22	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		11/28/18 02:22	87-68-3	M5
n-Hexane	**0.0070**	mg/kg	0.0050	1		11/28/18 02:22	110-54-3	M5
2-Hexanone	ND	mg/kg	0.10	1		11/28/18 02:22	591-78-6	M5
Iodomethane	ND	mg/kg	0.10	1		11/28/18 02:22	74-88-4	M5
Isopropylbenzene (Cumene)	**0.27**	mg/kg	0.0050	1		11/28/18 02:22	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0050	1		11/28/18 02:22	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.020	1		11/28/18 02:22	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/28/18 02:22	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		11/28/18 02:22	1634-04-4	M5
Naphthalene	ND	mg/kg	0.0050	1		11/28/18 02:22	91-20-3	M5
n-Propylbenzene	**2.3**	mg/kg	0.13	25		11/29/18 04:03	103-65-1	M5
Styrene	ND	mg/kg	0.0050	1		11/28/18 02:22	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/28/18 02:22	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/28/18 02:22	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0050	1		11/28/18 02:22	127-18-4	M5
Toluene	ND	mg/kg	0.0050	1		11/28/18 02:22	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		11/28/18 02:22	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		11/28/18 02:22	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0050	1		11/28/18 02:22	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0050	1		11/28/18 02:22	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		11/28/18 02:22	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	95-63-6	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-30-4-6 **Lab ID: 50210433008** Collected: 11/15/18 15:20 Received: 11/15/18 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		11/28/18 02:22	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.10	1		11/28/18 02:22	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0050	1		11/28/18 02:22	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.010	1		11/28/18 02:22	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	98	%.	80-127	1		11/28/18 02:22	1868-53-7	M5
Toluene-d8 (S)	134	%.	72-136	1		11/28/18 02:22	2037-26-5	M5
4-Bromofluorobenzene (S)	99	%.	57-130	1		11/28/18 02:22	460-00-4	M5
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**21.5**	%	0.10	1		11/16/18 17:08		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-25-GW-2-12 **Lab ID: 50210433009** Collected: 11/15/18 13:50 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	11/19/18 11:06	11/19/18 16:03	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	**3.4**	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	83-32-9	1d
Acenaphthylene	ND	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	208-96-8	1d
Anthracene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 17:49	120-12-7	1d
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 17:49	56-55-3	1d
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 17:49	50-32-8	1d
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 17:49	205-99-2	1d
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 17:49	191-24-2	1d
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 17:49	207-08-9	1d
Chrysene	ND	ug/L	0.50	1	11/20/18 09:52	11/20/18 17:49	218-01-9	1d
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 17:49	53-70-3	1d
Fluoranthene	ND	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	206-44-0	1d
Fluorene	**3.9**	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	86-73-7	1d
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 17:49	193-39-5	1d
1-Methylnaphthalene	**63.7**	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	90-12-0	1d,N2
2-Methylnaphthalene	**81.9**	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	91-57-6	1d
Naphthalene	ND	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	91-20-3	1d
Phenanthrene	**7.3**	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	85-01-8	1d
Pyrene	ND	ug/L	1.0	1	11/20/18 09:52	11/20/18 17:49	129-00-0	1d
Surrogates								
2-Fluorobiphenyl (S)	47	%.	10-108	1	11/20/18 09:52	11/20/18 17:49	321-60-8	
p-Terphenyl-d14 (S)	76	%.	10-167	1	11/20/18 09:52	11/20/18 17:49	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		11/28/18 02:37	67-64-1	M5
Acrolein	ND	ug/L	500	10		11/28/18 02:37	107-02-8	M5
Acrylonitrile	ND	ug/L	1000	10		11/28/18 02:37	107-13-1	M5
Benzene	ND	ug/L	50.0	10		11/28/18 02:37	71-43-2	M5
Bromobenzene	ND	ug/L	50.0	10		11/28/18 02:37	108-86-1	M5
Bromochloromethane	ND	ug/L	50.0	10		11/28/18 02:37	74-97-5	M5
Bromodichloromethane	ND	ug/L	50.0	10		11/28/18 02:37	75-27-4	M5
Bromoform	ND	ug/L	50.0	10		11/28/18 02:37	75-25-2	M5
Bromomethane	ND	ug/L	50.0	10		11/28/18 02:37	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	250	10		11/28/18 02:37	78-93-3	M5
n-Butylbenzene	**72.9**	ug/L	50.0	10		11/28/18 02:37	104-51-8	M5
sec-Butylbenzene	ND	ug/L	50.0	10		11/28/18 02:37	135-98-8	M5
tert-Butylbenzene	ND	ug/L	50.0	10		11/28/18 02:37	98-06-6	M5
Carbon disulfide	ND	ug/L	100	10		11/28/18 02:37	75-15-0	M5
Carbon tetrachloride	ND	ug/L	50.0	10		11/28/18 02:37	56-23-5	M5
Chlorobenzene	ND	ug/L	50.0	10		11/28/18 02:37	108-90-7	M5
Chloroethane	ND	ug/L	50.0	10		11/28/18 02:37	75-00-3	M5
Chloroform	ND	ug/L	50.0	10		11/28/18 02:37	67-66-3	M5
Chloromethane	ND	ug/L	50.0	10		11/28/18 02:37	74-87-3	M5
2-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 02:37	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-25-GW-2-12 **Lab ID: 50210433009** Collected: 11/15/18 13:50 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 02:37	106-43-4	M5
Dibromochloromethane	ND	ug/L	50.0	10		11/28/18 02:37	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	10		11/28/18 02:37	106-93-4	M5
Dibromomethane	ND	ug/L	50.0	10		11/28/18 02:37	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 02:37	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 02:37	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 02:37	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	1000	10		11/28/18 02:37	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	50.0	10		11/28/18 02:37	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	50.0	10		11/28/18 02:37	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	50.0	10		11/28/18 02:37	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	50.0	10		11/28/18 02:37	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 02:37	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 02:37	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 02:37	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	50.0	10		11/28/18 02:37	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 02:37	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	50.0	10		11/28/18 02:37	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 02:37	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 02:37	10061-02-6	M5
Ethylbenzene	ND	ug/L	50.0	10		11/28/18 02:37	100-41-4	M5
Ethyl methacrylate	ND	ug/L	1000	10		11/28/18 02:37	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		11/28/18 02:37	87-68-3	M5
n-Hexane	**101**	ug/L	50.0	10		11/28/18 02:37	110-54-3	M5
2-Hexanone	ND	ug/L	250	10		11/28/18 02:37	591-78-6	L2,M5
Iodomethane	ND	ug/L	100	10		11/28/18 02:37	74-88-4	L1,M5
Isopropylbenzene (Cumene)	ND	ug/L	50.0	10		11/28/18 02:37	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	50.0	10		11/28/18 02:37	99-87-6	M5
Methylene Chloride	ND	ug/L	50.0	10		11/28/18 02:37	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	10		11/28/18 02:37	108-10-1	L2,M5
Methyl-tert-butyl ether	ND	ug/L	40.0	10		11/28/18 02:37	1634-04-4	M5
Naphthalene	ND	ug/L	50.0	10		11/28/18 02:37	91-20-3	M5
n-Propylbenzene	**143**	ug/L	50.0	10		11/28/18 02:37	103-65-1	M5
Styrene	ND	ug/L	50.0	10		11/28/18 02:37	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 02:37	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 02:37	79-34-5	M5
Tetrachloroethene	ND	ug/L	50.0	10		11/28/18 02:37	127-18-4	M5
Toluene	ND	ug/L	50.0	10		11/28/18 02:37	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 02:37	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 02:37	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/28/18 02:37	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	50.0	10		11/28/18 02:37	79-00-5	M5
Trichloroethene	ND	ug/L	50.0	10		11/28/18 02:37	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	50.0	10		11/28/18 02:37	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	50.0	10		11/28/18 02:37	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 02:37	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 02:37	108-67-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-25-GW-2-12 **Lab ID: 50210433009** Collected: 11/15/18 13:50 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	500	10		11/28/18 02:37	108-05-4	M5
Vinyl chloride	ND	ug/L	20.0	10		11/28/18 02:37	75-01-4	M5
Xylene (Total)	ND	ug/L	100	10		11/28/18 02:37	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	104	%.	89-116	10		11/28/18 02:37	1868-53-7	2d,D3, M5
4-Bromofluorobenzene (S)	99	%.	85-111	10		11/28/18 02:37	460-00-4	M5
Toluene-d8 (S)	91	%.	87-110	10		11/28/18 02:37	2037-26-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-26-GW-2-12 **Lab ID: 50210433010** Collected: 11/15/18 14:00 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	11/19/18 11:06	11/19/18 16:06	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	**1.5**	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	83-32-9	1d
Acenaphthylene	ND	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	208-96-8	1d
Anthracene	**0.12**	ug/L	0.10	1	11/20/18 09:52	11/20/18 18:00	120-12-7	1d
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 18:00	56-55-3	1d
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 18:00	50-32-8	1d
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 18:00	205-99-2	1d
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 18:00	191-24-2	1d
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 18:00	207-08-9	1d
Chrysene	ND	ug/L	0.50	1	11/20/18 09:52	11/20/18 18:00	218-01-9	1d
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 18:00	53-70-3	1d
Fluoranthene	ND	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	206-44-0	1d
Fluorene	**1.6**	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	86-73-7	1d
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/18 09:52	11/20/18 18:00	193-39-5	1d
1-Methylnaphthalene	**37.7**	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	90-12-0	1d,N2
2-Methylnaphthalene	**56.7**	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	91-57-6	1d
Naphthalene	**5.0**	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	91-20-3	1d
Phenanthrene	**1.3**	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	85-01-8	1d
Pyrene	ND	ug/L	1.0	1	11/20/18 09:52	11/20/18 18:00	129-00-0	1d
Surrogates								
2-Fluorobiphenyl (S)	40	%.	10-108	1	11/20/18 09:52	11/20/18 18:00	321-60-8	
p-Terphenyl-d14 (S)	72	%.	10-167	1	11/20/18 09:52	11/20/18 18:00	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		11/28/18 04:25	67-64-1	M5
Acrolein	ND	ug/L	500	10		11/28/18 04:25	107-02-8	M5
Acrylonitrile	ND	ug/L	1000	10		11/28/18 04:25	107-13-1	M5
Benzene	**248**	ug/L	50.0	10		11/28/18 04:25	71-43-2	M5
Bromobenzene	ND	ug/L	50.0	10		11/28/18 04:25	108-86-1	M5
Bromochloromethane	ND	ug/L	50.0	10		11/28/18 04:25	74-97-5	M5
Bromodichloromethane	ND	ug/L	50.0	10		11/28/18 04:25	75-27-4	M5
Bromoform	ND	ug/L	50.0	10		11/28/18 04:25	75-25-2	M5
Bromomethane	ND	ug/L	50.0	10		11/28/18 04:25	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	250	10		11/28/18 04:25	78-93-3	M5
n-Butylbenzene	ND	ug/L	50.0	10		11/28/18 04:25	104-51-8	M5
sec-Butylbenzene	ND	ug/L	50.0	10		11/28/18 04:25	135-98-8	M5
tert-Butylbenzene	ND	ug/L	50.0	10		11/28/18 04:25	98-06-6	M5
Carbon disulfide	ND	ug/L	100	10		11/28/18 04:25	75-15-0	M5
Carbon tetrachloride	ND	ug/L	50.0	10		11/28/18 04:25	56-23-5	M5
Chlorobenzene	ND	ug/L	50.0	10		11/28/18 04:25	108-90-7	M5
Chloroethane	ND	ug/L	50.0	10		11/28/18 04:25	75-00-3	M5
Chloroform	ND	ug/L	50.0	10		11/28/18 04:25	67-66-3	M5
Chloromethane	ND	ug/L	50.0	10		11/28/18 04:25	74-87-3	M5
2-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 04:25	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-26-GW-2-12 **Lab ID: 50210433010** Collected: 11/15/18 14:00 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 04:25	106-43-4	M5
Dibromochloromethane	ND	ug/L	50.0	10		11/28/18 04:25	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	10		11/28/18 04:25	106-93-4	M5
Dibromomethane	ND	ug/L	50.0	10		11/28/18 04:25	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 04:25	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 04:25	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 04:25	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	1000	10		11/28/18 04:25	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	50.0	10		11/28/18 04:25	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	50.0	10		11/28/18 04:25	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	50.0	10		11/28/18 04:25	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	50.0	10		11/28/18 04:25	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 04:25	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 04:25	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 04:25	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	50.0	10		11/28/18 04:25	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 04:25	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	50.0	10		11/28/18 04:25	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 04:25	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 04:25	10061-02-6	M5
Ethylbenzene	**77.0**	ug/L	50.0	10		11/28/18 04:25	100-41-4	M5
Ethyl methacrylate	ND	ug/L	1000	10		11/28/18 04:25	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		11/28/18 04:25	87-68-3	M5
n-Hexane	ND	ug/L	50.0	10		11/28/18 04:25	110-54-3	M5
2-Hexanone	ND	ug/L	250	10		11/28/18 04:25	591-78-6	L2,M5
Iodomethane	ND	ug/L	100	10		11/28/18 04:25	74-88-4	L1,M5
Isopropylbenzene (Cumene)	ND	ug/L	50.0	10		11/28/18 04:25	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	50.0	10		11/28/18 04:25	99-87-6	M5
Methylene Chloride	ND	ug/L	50.0	10		11/28/18 04:25	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	10		11/28/18 04:25	108-10-1	L2,M5
Methyl-tert-butyl ether	ND	ug/L	40.0	10		11/28/18 04:25	1634-04-4	M5
Naphthalene	ND	ug/L	50.0	10		11/28/18 04:25	91-20-3	M5
n-Propylbenzene	**88.2**	ug/L	50.0	10		11/28/18 04:25	103-65-1	M5
Styrene	ND	ug/L	50.0	10		11/28/18 04:25	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 04:25	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 04:25	79-34-5	M5
Tetrachloroethene	ND	ug/L	50.0	10		11/28/18 04:25	127-18-4	M5
Toluene	ND	ug/L	50.0	10		11/28/18 04:25	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 04:25	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 04:25	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/28/18 04:25	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	50.0	10		11/28/18 04:25	79-00-5	M5
Trichloroethene	ND	ug/L	50.0	10		11/28/18 04:25	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	50.0	10		11/28/18 04:25	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	50.0	10		11/28/18 04:25	96-18-4	M5
1,2,4-Trimethylbenzene	**85.2**	ug/L	50.0	10		11/28/18 04:25	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 04:25	108-67-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-26-GW-2-12 **Lab ID: 50210433010** Collected: 11/15/18 14:00 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	500	10		11/28/18 04:25	108-05-4	M5
Vinyl chloride	ND	ug/L	20.0	10		11/28/18 04:25	75-01-4	M5
Xylene (Total)	ND	ug/L	100	10		11/28/18 04:25	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	105	%.	89-116	10		11/28/18 04:25	1868-53-7	2d,D3, M5
4-Bromofluorobenzene (S)	96	%.	85-111	10		11/28/18 04:25	460-00-4	M5
Toluene-d8 (S)	93	%.	87-110	10		11/28/18 04:25	2037-26-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-GW-2-12 **Lab ID: 50210433011** Collected: 11/15/18 14:06 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	11/19/18 11:06	11/19/18 16:08	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	**31.2**	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	83-32-9	1d
Acenaphthylene	ND	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	208-96-8	1d
Anthracene	**10.7**	ug/L	1.0	10	11/20/18 09:52	11/21/18 18:45	120-12-7	1d
Benzo(a)anthracene	ND	ug/L	1.0	10	11/20/18 09:52	11/21/18 18:45	56-55-3	1d
Benzo(a)pyrene	ND	ug/L	1.0	10	11/20/18 09:52	11/21/18 18:45	50-32-8	1d
Benzo(b)fluoranthene	ND	ug/L	1.0	10	11/20/18 09:52	11/21/18 18:45	205-99-2	1d
Benzo(g,h,i)perylene	ND	ug/L	1.0	10	11/20/18 09:52	11/21/18 18:45	191-24-2	1d
Benzo(k)fluoranthene	ND	ug/L	1.0	10	11/20/18 09:52	11/21/18 18:45	207-08-9	1d
Chrysene	ND	ug/L	5.0	10	11/20/18 09:52	11/21/18 18:45	218-01-9	1d
Dibenz(a,h)anthracene	ND	ug/L	1.0	10	11/20/18 09:52	11/21/18 18:45	53-70-3	1d
Fluoranthene	ND	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	206-44-0	1d
Fluorene	**33.5**	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	86-73-7	1d
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	10	11/20/18 09:52	11/21/18 18:45	193-39-5	1d
1-Methylnaphthalene	**356**	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	90-12-0	1d,N2
2-Methylnaphthalene	**402**	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	91-57-6	1d
Naphthalene	ND	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	91-20-3	1d,D3
Phenanthrene	**68.6**	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	85-01-8	1d
Pyrene	ND	ug/L	10.0	10	11/20/18 09:52	11/21/18 18:45	129-00-0	1d
Surrogates								
2-Fluorobiphenyl (S)	83	%.	10-108	10	11/20/18 09:52	11/21/18 18:45	321-60-8	
p-Terphenyl-d14 (S)	79	%.	10-167	10	11/20/18 09:52	11/21/18 18:45	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		11/28/18 05:01	67-64-1	M5
Acrolein	ND	ug/L	500	10		11/28/18 05:01	107-02-8	M5
Acrylonitrile	ND	ug/L	1000	10		11/28/18 05:01	107-13-1	M5
Benzene	**580**	ug/L	50.0	10		11/28/18 05:01	71-43-2	M5
Bromobenzene	ND	ug/L	50.0	10		11/28/18 05:01	108-86-1	M5
Bromochloromethane	ND	ug/L	50.0	10		11/28/18 05:01	74-97-5	M5
Bromodichloromethane	ND	ug/L	50.0	10		11/28/18 05:01	75-27-4	M5
Bromoform	ND	ug/L	50.0	10		11/28/18 05:01	75-25-2	M5
Bromomethane	ND	ug/L	50.0	10		11/28/18 05:01	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	250	10		11/28/18 05:01	78-93-3	M5
n-Butylbenzene	**173**	ug/L	50.0	10		11/28/18 05:01	104-51-8	M5
sec-Butylbenzene	**108**	ug/L	50.0	10		11/28/18 05:01	135-98-8	M5
tert-Butylbenzene	ND	ug/L	50.0	10		11/28/18 05:01	98-06-6	M5
Carbon disulfide	ND	ug/L	100	10		11/28/18 05:01	75-15-0	M5
Carbon tetrachloride	ND	ug/L	50.0	10		11/28/18 05:01	56-23-5	M5
Chlorobenzene	ND	ug/L	50.0	10		11/28/18 05:01	108-90-7	M5
Chloroethane	ND	ug/L	50.0	10		11/28/18 05:01	75-00-3	M5
Chloroform	ND	ug/L	50.0	10		11/28/18 05:01	67-66-3	M5
Chloromethane	ND	ug/L	50.0	10		11/28/18 05:01	74-87-3	M5
2-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 05:01	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-GW-2-12 **Lab ID: 50210433011** Collected: 11/15/18 14:06 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 05:01	106-43-4	M5
Dibromochloromethane	ND	ug/L	50.0	10		11/28/18 05:01	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	10		11/28/18 05:01	106-93-4	M5
Dibromomethane	ND	ug/L	50.0	10		11/28/18 05:01	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 05:01	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 05:01	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 05:01	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	1000	10		11/28/18 05:01	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	50.0	10		11/28/18 05:01	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	50.0	10		11/28/18 05:01	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	50.0	10		11/28/18 05:01	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	50.0	10		11/28/18 05:01	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 05:01	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 05:01	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 05:01	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	50.0	10		11/28/18 05:01	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 05:01	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	50.0	10		11/28/18 05:01	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 05:01	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 05:01	10061-02-6	M5
Ethylbenzene	ND	ug/L	50.0	10		11/28/18 05:01	100-41-4	M5
Ethyl methacrylate	ND	ug/L	1000	10		11/28/18 05:01	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		11/28/18 05:01	87-68-3	M5
n-Hexane	**104**	ug/L	50.0	10		11/28/18 05:01	110-54-3	M5
2-Hexanone	ND	ug/L	250	10		11/28/18 05:01	591-78-6	L2,M5
Iodomethane	ND	ug/L	100	10		11/28/18 05:01	74-88-4	L1,M5
Isopropylbenzene (Cumene)	**173**	ug/L	50.0	10		11/28/18 05:01	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	50.0	10		11/28/18 05:01	99-87-6	M5
Methylene Chloride	ND	ug/L	50.0	10		11/28/18 05:01	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	10		11/28/18 05:01	108-10-1	L2,M5
Methyl-tert-butyl ether	ND	ug/L	40.0	10		11/28/18 05:01	1634-04-4	M5
Naphthalene	ND	ug/L	50.0	10		11/28/18 05:01	91-20-3	M5
n-Propylbenzene	**422**	ug/L	50.0	10		11/28/18 05:01	103-65-1	M5
Styrene	ND	ug/L	50.0	10		11/28/18 05:01	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 05:01	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 05:01	79-34-5	M5
Tetrachloroethene	ND	ug/L	50.0	10		11/28/18 05:01	127-18-4	M5
Toluene	ND	ug/L	50.0	10		11/28/18 05:01	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 05:01	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 05:01	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/28/18 05:01	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	50.0	10		11/28/18 05:01	79-00-5	M5
Trichloroethene	ND	ug/L	50.0	10		11/28/18 05:01	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	50.0	10		11/28/18 05:01	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	50.0	10		11/28/18 05:01	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 05:01	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 05:01	108-67-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-28-GW-2-12 **Lab ID: 50210433011** Collected: 11/15/18 14:06 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	500	10		11/28/18 05:01	108-05-4	M5
Vinyl chloride	ND	ug/L	20.0	10		11/28/18 05:01	75-01-4	M5
Xylene (Total)	ND	ug/L	100	10		11/28/18 05:01	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	105	%.	89-116	10		11/28/18 05:01	1868-53-7	2d,D4, M5
4-Bromofluorobenzene (S)	100	%.	85-111	10		11/28/18 05:01	460-00-4	M5
Toluene-d8 (S)	95	%.	87-110	10		11/28/18 05:01	2037-26-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-29-GW-4-9 **Lab ID: 50210433012** Collected: 11/15/18 14:10 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	11/19/18 11:06	11/19/18 16:10	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	**318**	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	83-32-9	1d
Acenaphthylene	ND	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	208-96-8	1d
Anthracene	**185**	ug/L	10.0	100	11/20/18 09:52	11/21/18 18:56	120-12-7	1d
Benzo(a)anthracene	ND	ug/L	10.0	100	11/20/18 09:52	11/21/18 18:56	56-55-3	1d
Benzo(a)pyrene	ND	ug/L	10.0	100	11/20/18 09:52	11/21/18 18:56	50-32-8	1d
Benzo(b)fluoranthene	ND	ug/L	10.0	100	11/20/18 09:52	11/21/18 18:56	205-99-2	1d
Benzo(g,h,i)perylene	ND	ug/L	10.0	100	11/20/18 09:52	11/21/18 18:56	191-24-2	1d
Benzo(k)fluoranthene	ND	ug/L	10.0	100	11/20/18 09:52	11/21/18 18:56	207-08-9	1d
Chrysene	ND	ug/L	50.0	100	11/20/18 09:52	11/21/18 18:56	218-01-9	1d
Dibenz(a,h)anthracene	ND	ug/L	10.0	100	11/20/18 09:52	11/21/18 18:56	53-70-3	1d
Fluoranthene	ND	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	206-44-0	1d
Fluorene	**337**	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	86-73-7	1d
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	100	11/20/18 09:52	11/21/18 18:56	193-39-5	1d
1-Methylnaphthalene	**2560**	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	90-12-0	1d,N2
2-Methylnaphthalene	**2780**	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	91-57-6	1d
Naphthalene	ND	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	91-20-3	1d,D3
Phenanthrene	**964**	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	85-01-8	1d
Pyrene	ND	ug/L	100	100	11/20/18 09:52	11/21/18 18:56	129-00-0	1d
Surrogates								
2-Fluorobiphenyl (S)	306	%.	10-108	100	11/20/18 09:52	11/21/18 18:56	321-60-8	S4
p-Terphenyl-d14 (S)	85	%.	10-167	100	11/20/18 09:52	11/21/18 18:56	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		11/28/18 06:50	67-64-1	M5
Acrolein	ND	ug/L	500	10		11/28/18 06:50	107-02-8	M5
Acrylonitrile	ND	ug/L	1000	10		11/28/18 06:50	107-13-1	M5
Benzene	ND	ug/L	50.0	10		11/28/18 06:50	71-43-2	M5
Bromobenzene	ND	ug/L	50.0	10		11/28/18 06:50	108-86-1	M5
Bromochloromethane	ND	ug/L	50.0	10		11/28/18 06:50	74-97-5	M5
Bromodichloromethane	ND	ug/L	50.0	10		11/28/18 06:50	75-27-4	M5
Bromoform	ND	ug/L	50.0	10		11/28/18 06:50	75-25-2	M5
Bromomethane	ND	ug/L	50.0	10		11/28/18 06:50	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	250	10		11/28/18 06:50	78-93-3	M5
n-Butylbenzene	**221**	ug/L	50.0	10		11/28/18 06:50	104-51-8	M5
sec-Butylbenzene	**185**	ug/L	50.0	10		11/28/18 06:50	135-98-8	M5
tert-Butylbenzene	ND	ug/L	50.0	10		11/28/18 06:50	98-06-6	M5
Carbon disulfide	ND	ug/L	100	10		11/28/18 06:50	75-15-0	M5
Carbon tetrachloride	ND	ug/L	50.0	10		11/28/18 06:50	56-23-5	M5
Chlorobenzene	ND	ug/L	50.0	10		11/28/18 06:50	108-90-7	M5
Chloroethane	ND	ug/L	50.0	10		11/28/18 06:50	75-00-3	M5
Chloroform	ND	ug/L	50.0	10		11/28/18 06:50	67-66-3	M5
Chloromethane	ND	ug/L	50.0	10		11/28/18 06:50	74-87-3	M5
2-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 06:50	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-29-GW-4-9 **Lab ID: 50210433012** Collected: 11/15/18 14:10 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 06:50	106-43-4	M5
Dibromochloromethane	ND	ug/L	50.0	10		11/28/18 06:50	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	10		11/28/18 06:50	106-93-4	M5
Dibromomethane	ND	ug/L	50.0	10		11/28/18 06:50	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 06:50	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 06:50	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 06:50	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	1000	10		11/28/18 06:50	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	50.0	10		11/28/18 06:50	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	50.0	10		11/28/18 06:50	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	50.0	10		11/28/18 06:50	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	50.0	10		11/28/18 06:50	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 06:50	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 06:50	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 06:50	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	50.0	10		11/28/18 06:50	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 06:50	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	50.0	10		11/28/18 06:50	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 06:50	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 06:50	10061-02-6	M5
Ethylbenzene	ND	ug/L	50.0	10		11/28/18 06:50	100-41-4	M5
Ethyl methacrylate	ND	ug/L	1000	10		11/28/18 06:50	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		11/28/18 06:50	87-68-3	M5
n-Hexane	**69.2**	ug/L	50.0	10		11/28/18 06:50	110-54-3	M5
2-Hexanone	ND	ug/L	250	10		11/28/18 06:50	591-78-6	L2,M5
Iodomethane	ND	ug/L	100	10		11/28/18 06:50	74-88-4	L1,M5
Isopropylbenzene (Cumene)	**226**	ug/L	50.0	10		11/28/18 06:50	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	50.0	10		11/28/18 06:50	99-87-6	M5
Methylene Chloride	ND	ug/L	50.0	10		11/28/18 06:50	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	10		11/28/18 06:50	108-10-1	L2,M5
Methyl-tert-butyl ether	ND	ug/L	40.0	10		11/28/18 06:50	1634-04-4	M5
Naphthalene	ND	ug/L	50.0	10		11/28/18 06:50	91-20-3	M5
n-Propylbenzene	**471**	ug/L	50.0	10		11/28/18 06:50	103-65-1	M5
Styrene	ND	ug/L	50.0	10		11/28/18 06:50	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 06:50	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 06:50	79-34-5	M5
Tetrachloroethene	ND	ug/L	50.0	10		11/28/18 06:50	127-18-4	M5
Toluene	ND	ug/L	50.0	10		11/28/18 06:50	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 06:50	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 06:50	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/28/18 06:50	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	50.0	10		11/28/18 06:50	79-00-5	M5
Trichloroethene	ND	ug/L	50.0	10		11/28/18 06:50	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	50.0	10		11/28/18 06:50	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	50.0	10		11/28/18 06:50	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 06:50	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 06:50	108-67-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-29-GW-4-9 **Lab ID: 50210433012** Collected: 11/15/18 14:10 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	500	10		11/28/18 06:50	108-05-4	M5
Vinyl chloride	ND	ug/L	20.0	10		11/28/18 06:50	75-01-4	M5
Xylene (Total)	ND	ug/L	100	10		11/28/18 06:50	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	106	%.	89-116	10		11/28/18 06:50	1868-53-7	2d,D4, M5
4-Bromofluorobenzene (S)	101	%.	85-111	10		11/28/18 06:50	460-00-4	M5
Toluene-d8 (S)	99	%.	87-110	10		11/28/18 06:50	2037-26-5	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-30-GW-2-12 **Lab ID: 50210433013** Collected: 11/15/18 14:15 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND	ug/L	10.0	1	11/19/18 11:06	11/19/18 16:13	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	**193**	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	83-32-9	1d
Acenaphthylene	ND	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	208-96-8	1d
Anthracene	**107**	ug/L	5.7	50	11/20/18 09:52	11/21/18 19:08	120-12-7	1d
Benzo(a)anthracene	ND	ug/L	5.7	50	11/20/18 09:52	11/21/18 19:08	56-55-3	1d
Benzo(a)pyrene	ND	ug/L	5.7	50	11/20/18 09:52	11/21/18 19:08	50-32-8	1d
Benzo(b)fluoranthene	ND	ug/L	5.7	50	11/20/18 09:52	11/21/18 19:08	205-99-2	1d
Benzo(g,h,i)perylene	ND	ug/L	5.7	50	11/20/18 09:52	11/21/18 19:08	191-24-2	1d
Benzo(k)fluoranthene	ND	ug/L	5.7	50	11/20/18 09:52	11/21/18 19:08	207-08-9	1d
Chrysene	ND	ug/L	28.7	50	11/20/18 09:52	11/21/18 19:08	218-01-9	1d
Dibenz(a,h)anthracene	ND	ug/L	5.7	50	11/20/18 09:52	11/21/18 19:08	53-70-3	1d
Fluoranthene	ND	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	206-44-0	1d
Fluorene	**214**	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	86-73-7	1d
Indeno(1,2,3-cd)pyrene	ND	ug/L	5.7	50	11/20/18 09:52	11/21/18 19:08	193-39-5	1d
1-Methylnaphthalene	**1750**	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	90-12-0	1d,N2
2-Methylnaphthalene	**2360**	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	91-57-6	1d
Naphthalene	ND	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	91-20-3	1d,D3
Phenanthrene	**627**	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	85-01-8	1d
Pyrene	ND	ug/L	57.5	50	11/20/18 09:52	11/21/18 19:08	129-00-0	1d
Surrogates								
2-Fluorobiphenyl (S)	193	%.	10-108	50	11/20/18 09:52	11/21/18 19:08	321-60-8	S4
p-Terphenyl-d14 (S)	74	%.	10-167	50	11/20/18 09:52	11/21/18 19:08	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		11/28/18 08:39	67-64-1	M5
Acrolein	ND	ug/L	500	10		11/28/18 08:39	107-02-8	M5
Acrylonitrile	ND	ug/L	1000	10		11/28/18 08:39	107-13-1	M5
Benzene	**505**	ug/L	50.0	10		11/28/18 08:39	71-43-2	M5
Bromobenzene	ND	ug/L	50.0	10		11/28/18 08:39	108-86-1	M5
Bromochloromethane	ND	ug/L	50.0	10		11/28/18 08:39	74-97-5	M5
Bromodichloromethane	ND	ug/L	50.0	10		11/28/18 08:39	75-27-4	M5
Bromoform	ND	ug/L	50.0	10		11/28/18 08:39	75-25-2	M5
Bromomethane	ND	ug/L	50.0	10		11/28/18 08:39	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	250	10		11/28/18 08:39	78-93-3	M5
n-Butylbenzene	**453**	ug/L	50.0	10		11/28/18 08:39	104-51-8	M5
sec-Butylbenzene	**547**	ug/L	50.0	10		11/28/18 08:39	135-98-8	M5
tert-Butylbenzene	ND	ug/L	50.0	10		11/28/18 08:39	98-06-6	M5
Carbon disulfide	ND	ug/L	100	10		11/28/18 08:39	75-15-0	M5
Carbon tetrachloride	ND	ug/L	50.0	10		11/28/18 08:39	56-23-5	M5
Chlorobenzene	ND	ug/L	50.0	10		11/28/18 08:39	108-90-7	M5
Chloroethane	ND	ug/L	50.0	10		11/28/18 08:39	75-00-3	M5
Chloroform	ND	ug/L	50.0	10		11/28/18 08:39	67-66-3	M5
Chloromethane	ND	ug/L	50.0	10		11/28/18 08:39	74-87-3	M5
2-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 08:39	95-49-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-30-GW-2-12 **Lab ID: 50210433013** Collected: 11/15/18 14:15 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	50.0	10		11/28/18 08:39	106-43-4	M5
Dibromochloromethane	ND	ug/L	50.0	10		11/28/18 08:39	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	10		11/28/18 08:39	106-93-4	M5
Dibromomethane	ND	ug/L	50.0	10		11/28/18 08:39	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 08:39	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 08:39	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	50.0	10		11/28/18 08:39	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	1000	10		11/28/18 08:39	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	50.0	10		11/28/18 08:39	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	50.0	10		11/28/18 08:39	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	50.0	10		11/28/18 08:39	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	50.0	10		11/28/18 08:39	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 08:39	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/18 08:39	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 08:39	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	50.0	10		11/28/18 08:39	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	50.0	10		11/28/18 08:39	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	50.0	10		11/28/18 08:39	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 08:39	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	50.0	10		11/28/18 08:39	10061-02-6	M5
Ethylbenzene	ND	ug/L	50.0	10		11/28/18 08:39	100-41-4	M5
Ethyl methacrylate	ND	ug/L	1000	10		11/28/18 08:39	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		11/28/18 08:39	87-68-3	M5
n-Hexane	**230**	ug/L	50.0	10		11/28/18 08:39	110-54-3	M5
2-Hexanone	ND	ug/L	250	10		11/28/18 08:39	591-78-6	L2,M5
Iodomethane	ND	ug/L	100	10		11/28/18 08:39	74-88-4	L1,M5
Isopropylbenzene (Cumene)	**630**	ug/L	50.0	10		11/28/18 08:39	98-82-8	M5
p-Isopropyltoluene	**54.1**	ug/L	50.0	10		11/28/18 08:39	99-87-6	M5
Methylene Chloride	ND	ug/L	50.0	10		11/28/18 08:39	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	10		11/28/18 08:39	108-10-1	L2,M5
Methyl-tert-butyl ether	ND	ug/L	40.0	10		11/28/18 08:39	1634-04-4	M5
Naphthalene	ND	ug/L	50.0	10		11/28/18 08:39	91-20-3	M5
n-Propylbenzene	**1180**	ug/L	50.0	10		11/28/18 08:39	103-65-1	M5
Styrene	ND	ug/L	50.0	10		11/28/18 08:39	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 08:39	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		11/28/18 08:39	79-34-5	M5
Tetrachloroethene	ND	ug/L	50.0	10		11/28/18 08:39	127-18-4	M5
Toluene	**53.9**	ug/L	50.0	10		11/28/18 08:39	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 08:39	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		11/28/18 08:39	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/28/18 08:39	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	50.0	10		11/28/18 08:39	79-00-5	M5
Trichloroethene	ND	ug/L	50.0	10		11/28/18 08:39	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	50.0	10		11/28/18 08:39	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	50.0	10		11/28/18 08:39	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 08:39	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	50.0	10		11/28/18 08:39	108-67-8	M5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: JS1901.740.0002
Pace Project No.: 50210433

Sample: SB-30-GW-2-12 **Lab ID: 50210433013** Collected: 11/15/18 14:15 Received: 11/15/18 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	500	10		11/28/18 08:39	108-05-4	M5
Vinyl chloride	ND	ug/L	20.0	10		11/28/18 08:39	75-01-4	M5
Xylene (Total)	**127**	ug/L	100	10		11/28/18 08:39	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	105	%.	89-116	10		11/28/18 08:39	1868-53-7	2d,D4, M5
4-Bromofluorobenzene (S)	119	%.	85-111	10		11/28/18 08:39	460-00-4	M5,S5
Toluene-d8 (S)	111	%.	87-110	10		11/28/18 08:39	2037-26-5	M5,S5

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

QC Batch: 471966 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50210433001, 50210433002, 50210433003, 50210433004, 50210433005, 50210433006, 50210433007, 50210433008

METHOD BLANK: 2177825 Matrix: Solid
Associated Lab Samples: 50210433001, 50210433002, 50210433003, 50210433004, 50210433005, 50210433006, 50210433007, 50210433008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	11/19/18 01:51	

LABORATORY CONTROL SAMPLE: 2177826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	48.5	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2177827 2177828

Parameter	Units	50210261001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	12.5	56.5	59.1	58.6	65.5	81	90	75-125	11	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2177829 2177830

Parameter	Units	50210270002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	3.9	50.7	48.1	48.2	45.7	87	87	75-125	5	20	

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

QC Batch: 472369 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 50210433009, 50210433010, 50210433011, 50210433012, 50210433013

METHOD BLANK: 2179948 Matrix: Water
Associated Lab Samples: 50210433009, 50210433010, 50210433011, 50210433012, 50210433013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	ND	10.0	11/19/18 15:43	

LABORATORY CONTROL SAMPLE: 2179949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	1000	882	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2179950 2179951

Parameter	Units	50210554006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	ND	1000	1000	926	921	93	92	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

QC Batch: 473370 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50210433009, 50210433010, 50210433011, 50210433012, 50210433013

METHOD BLANK: 2184203 Matrix: Water
Associated Lab Samples: 50210433009, 50210433010, 50210433011, 50210433012, 50210433013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/28/18 01:25	M5
1,1,1-Trichloroethane	ug/L	ND	5.0	11/28/18 01:25	M5
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/28/18 01:25	M5
1,1,2-Trichloroethane	ug/L	ND	5.0	11/28/18 01:25	M5
1,1-Dichloroethane	ug/L	ND	5.0	11/28/18 01:25	M5
1,1-Dichloroethene	ug/L	ND	5.0	11/28/18 01:25	M5
1,1-Dichloropropene	ug/L	ND	5.0	11/28/18 01:25	M5
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/28/18 01:25	M5
1,2,3-Trichloropropane	ug/L	ND	5.0	11/28/18 01:25	M5
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/28/18 01:25	M5
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/28/18 01:25	M5
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/28/18 01:25	M5
1,2-Dichlorobenzene	ug/L	ND	5.0	11/28/18 01:25	M5
1,2-Dichloroethane	ug/L	ND	5.0	11/28/18 01:25	M5
1,2-Dichloropropane	ug/L	ND	5.0	11/28/18 01:25	M5
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/28/18 01:25	M5
1,3-Dichlorobenzene	ug/L	ND	5.0	11/28/18 01:25	M5
1,3-Dichloropropane	ug/L	ND	5.0	11/28/18 01:25	M5
1,4-Dichlorobenzene	ug/L	ND	5.0	11/28/18 01:25	M5
2,2-Dichloropropane	ug/L	ND	5.0	11/28/18 01:25	M5
2-Butanone (MEK)	ug/L	ND	25.0	11/28/18 01:25	M5
2-Chlorotoluene	ug/L	ND	5.0	11/28/18 01:25	M5
2-Hexanone	ug/L	ND	25.0	11/28/18 01:25	M5
4-Chlorotoluene	ug/L	ND	5.0	11/28/18 01:25	M5
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/28/18 01:25	M5
Acetone	ug/L	ND	100	11/28/18 01:25	M5
Acrolein	ug/L	ND	50.0	11/28/18 01:25	M5
Acrylonitrile	ug/L	ND	100	11/28/18 01:25	M5
Benzene	ug/L	ND	5.0	11/28/18 01:25	M5
Bromobenzene	ug/L	ND	5.0	11/28/18 01:25	M5
Bromochloromethane	ug/L	ND	5.0	11/28/18 01:25	M5
Bromodichloromethane	ug/L	ND	5.0	11/28/18 01:25	M5
Bromoform	ug/L	ND	5.0	11/28/18 01:25	M5
Bromomethane	ug/L	ND	5.0	11/28/18 01:25	M5
Carbon disulfide	ug/L	ND	10.0	11/28/18 01:25	M5
Carbon tetrachloride	ug/L	ND	5.0	11/28/18 01:25	M5
Chlorobenzene	ug/L	ND	5.0	11/28/18 01:25	M5
Chloroethane	ug/L	ND	5.0	11/28/18 01:25	M5
Chloroform	ug/L	ND	5.0	11/28/18 01:25	M5
Chloromethane	ug/L	ND	5.0	11/28/18 01:25	M5
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/28/18 01:25	M5

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

METHOD BLANK: 2184203 Matrix: Water
Associated Lab Samples: 50210433009, 50210433010, 50210433011, 50210433012, 50210433013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/28/18 01:25	M5
Dibromochloromethane	ug/L	ND	5.0	11/28/18 01:25	M5
Dibromomethane	ug/L	ND	5.0	11/28/18 01:25	M5
Dichlorodifluoromethane	ug/L	ND	5.0	11/28/18 01:25	M5
Ethyl methacrylate	ug/L	ND	100	11/28/18 01:25	M5
Ethylbenzene	ug/L	ND	5.0	11/28/18 01:25	M5
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/28/18 01:25	M5
Iodomethane	ug/L	ND	10.0	11/28/18 01:25	M5
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/28/18 01:25	M5
Methyl-tert-butyl ether	ug/L	ND	4.0	11/28/18 01:25	M5
Methylene Chloride	ug/L	ND	5.0	11/28/18 01:25	M5
n-Butylbenzene	ug/L	ND	5.0	11/28/18 01:25	M5
n-Hexane	ug/L	ND	5.0	11/28/18 01:25	M5
n-Propylbenzene	ug/L	ND	5.0	11/28/18 01:25	M5
Naphthalene	ug/L	ND	5.0	11/28/18 01:25	M5
p-Isopropyltoluene	ug/L	ND	5.0	11/28/18 01:25	M5
sec-Butylbenzene	ug/L	ND	5.0	11/28/18 01:25	M5
Styrene	ug/L	ND	5.0	11/28/18 01:25	M5
tert-Butylbenzene	ug/L	ND	5.0	11/28/18 01:25	M5
Tetrachloroethene	ug/L	ND	5.0	11/28/18 01:25	M5
Toluene	ug/L	ND	5.0	11/28/18 01:25	M5
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/28/18 01:25	M5
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/28/18 01:25	M5
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/28/18 01:25	M5
Trichloroethene	ug/L	ND	5.0	11/28/18 01:25	M5
Trichlorofluoromethane	ug/L	ND	5.0	11/28/18 01:25	M5
Vinyl acetate	ug/L	ND	50.0	11/28/18 01:25	M5
Vinyl chloride	ug/L	ND	2.0	11/28/18 01:25	M5
Xylene (Total)	ug/L	ND	10.0	11/28/18 01:25	M5
4-Bromofluorobenzene (S)	%.	97	85-111	11/28/18 01:25	M5
Dibromofluoromethane (S)	%.	104	89-116	11/28/18 01:25	M5
Toluene-d8 (S)	%.	94	87-110	11/28/18 01:25	M5

LABORATORY CONTROL SAMPLE: 2184204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.5	89	80-120	M5
1,1,1-Trichloroethane	ug/L	50	47.7	95	74-126	M5
1,1,2,2-Tetrachloroethane	ug/L	50	41.4	83	73-117	M5
1,1,2-Trichloroethane	ug/L	50	40.2	80	74-119	M5
1,1-Dichloroethane	ug/L	50	44.3	89	72-119	M5
1,1-Dichloroethene	ug/L	50	48.8	98	72-123	M5
1,1-Dichloropropene	ug/L	50	47.9	96	77-125	M5
1,2,3-Trichlorobenzene	ug/L	50	49.3	99	74-125	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

LABORATORY CONTROL SAMPLE: 2184204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	44.1	88	82-121	M5
1,2,4-Trichlorobenzene	ug/L	50	51.9	104	70-125	M5
1,2,4-Trimethylbenzene	ug/L	50	46.0	92	76-118	M5
1,2-Dibromoethane (EDB)	ug/L	50	46.3	93	80-120	M5
1,2-Dichlorobenzene	ug/L	50	47.2	94	77-117	M5
1,2-Dichloroethane	ug/L	50	43.2	86	69-122	M5
1,2-Dichloropropane	ug/L	50	46.1	92	75-124	M5
1,3,5-Trimethylbenzene	ug/L	50	42.7	85	75-117	M5
1,3-Dichlorobenzene	ug/L	50	47.0	94	76-116	M5
1,3-Dichloropropane	ug/L	50	43.2	86	82-118	M5
1,4-Dichlorobenzene	ug/L	50	45.4	91	74-115	M5
2,2-Dichloropropane	ug/L	50	41.1	82	51-133	M5
2-Butanone (MEK)	ug/L	250	237	95	72-147	M5
2-Chlorotoluene	ug/L	50	45.4	91	73-113	M5
2-Hexanone	ug/L	250	175	70	71-132	L2,M5
4-Chlorotoluene	ug/L	50	46.8	94	78-118	M5
4-Methyl-2-pentanone (MIBK)	ug/L	250	185	74	89-128	L2,M5
Acetone	ug/L	250	224	90	46-170	M5
Acrolein	ug/L	1000	1090	109	13-200	M5
Acrylonitrile	ug/L	200	173	86	65-130	M5
Benzene	ug/L	50	46.8	94	78-117	M5
Bromobenzene	ug/L	50	48.5	97	66-126	M5
Bromochloromethane	ug/L	50	43.2	86	76-120	M5
Bromodichloromethane	ug/L	50	49.4	99	76-120	M5
Bromoform	ug/L	50	42.0	84	70-124	M5
Bromomethane	ug/L	50	87.3	175	29-181	M5
Carbon disulfide	ug/L	50	52.4	105	66-123	M5
Carbon tetrachloride	ug/L	50	53.6	107	73-132	M5
Chlorobenzene	ug/L	50	45.9	92	79-112	M5
Chloroethane	ug/L	50	51.4	103	59-156	M5
Chloroform	ug/L	50	44.8	90	76-118	M5
Chloromethane	ug/L	50	50.9	102	45-142	M5
cis-1,2-Dichloroethene	ug/L	50	50.8	102	75-117	M5
cis-1,3-Dichloropropene	ug/L	50	42.7	85	77-120	M5
Dibromochloromethane	ug/L	50	44.0	88	78-123	M5
Dibromomethane	ug/L	50	50.6	101	78-122	M5
Dichlorodifluoromethane	ug/L	50	56.6	113	41-168	M5
Ethyl methacrylate	ug/L	200	169	85	75-128	M5
Ethylbenzene	ug/L	50	51.3	103	80-118	M5
Hexachloro-1,3-butadiene	ug/L	50	51.1	102	73-125	M5
Iodomethane	ug/L	100	267	267	35-174	L1,M5
Isopropylbenzene (Cumene)	ug/L	50	50.4	101	81-117	M5
Methyl-tert-butyl ether	ug/L	50	46.1	92	71-124	M5
Methylene Chloride	ug/L	50	46.6	93	59-136	M5
n-Butylbenzene	ug/L	50	43.2	86	72-118	M5
n-Hexane	ug/L	50	46.6	93	60-128	M5
n-Propylbenzene	ug/L	50	45.9	92	75-120	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

LABORATORY CONTROL SAMPLE: 2184204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	42.9	86	67-126	M5
p-Isopropyltoluene	ug/L	50	44.9	90	75-115	M5
sec-Butylbenzene	ug/L	50	43.8	88	76-120	M5
Styrene	ug/L	50	45.2	90	74-121	M5
tert-Butylbenzene	ug/L	50	38.3	77	55-109	M5
Tetrachloroethene	ug/L	50	49.3	99	76-116	M5
Toluene	ug/L	50	48.3	97	77-115	M5
trans-1,2-Dichloroethene	ug/L	50	54.1	108	75-121	M5
trans-1,3-Dichloropropene	ug/L	50	41.2	82	77-121	M5
trans-1,4-Dichloro-2-butene	ug/L	200	166	83	42-128	M5
Trichloroethene	ug/L	50	46.7	93	76-120	M5
Trichlorofluoromethane	ug/L	50	58.3	117	81-141	M5
Vinyl acetate	ug/L	200	190	95	67-131	M5
Vinyl chloride	ug/L	50	50.7	101	64-155	M5
Xylene (Total)	ug/L	150	156	104	78-118	M5
4-Bromofluorobenzene (S)	%.			95	85-111	M5
Dibromofluoromethane (S)	%.			105	89-116	M5
Toluene-d8 (S)	%.			93	87-110	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

QC Batch: 473399 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50210433001, 50210433002, 50210433003, 50210433004, 50210433005, 50210433006, 50210433007, 50210433008

METHOD BLANK: 2184264 Matrix: Solid
Associated Lab Samples: 50210433001, 50210433002, 50210433003, 50210433004, 50210433005, 50210433006, 50210433007, 50210433008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,1-Dichloroethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,1-Dichloroethene	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,1-Dichloropropene	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,2-Dichloroethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,2-Dichloropropane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,3-Dichloropropane	mg/kg	ND	0.0050	11/27/18 21:54	M5
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
2,2-Dichloropropane	mg/kg	ND	0.0050	11/27/18 21:54	M5
2-Butanone (MEK)	mg/kg	ND	0.025	11/27/18 21:54	M5
2-Chlorotoluene	mg/kg	ND	0.0050	11/27/18 21:54	M5
2-Hexanone	mg/kg	ND	0.10	11/27/18 21:54	M5
4-Chlorotoluene	mg/kg	ND	0.0050	11/27/18 21:54	M5
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/27/18 21:54	M5
Acetone	mg/kg	ND	0.10	11/27/18 21:54	M5
Acrolein	mg/kg	ND	0.10	11/27/18 21:54	M5
Acrylonitrile	mg/kg	ND	0.10	11/27/18 21:54	M5
Benzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Bromobenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Bromochloromethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
Bromodichloromethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
Bromoform	mg/kg	ND	0.0050	11/27/18 21:54	M5
Bromomethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
Carbon disulfide	mg/kg	ND	0.010	11/27/18 21:54	M5
Carbon tetrachloride	mg/kg	ND	0.0050	11/27/18 21:54	M5
Chlorobenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Chloroethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
Chloroform	mg/kg	ND	0.0050	11/27/18 21:54	M5
Chloromethane	mg/kg	ND	0.0050	11/27/18 21:54	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

METHOD BLANK: 2184264 Matrix: Solid

Associated Lab Samples: 50210433001, 50210433002, 50210433003, 50210433004, 50210433005, 50210433006, 50210433007, 50210433008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/27/18 21:54	M5
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Dibromochloromethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
Dibromomethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
Ethyl methacrylate	mg/kg	ND	0.10	11/27/18 21:54	M5
Ethylbenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Iodomethane	mg/kg	ND	0.10	11/27/18 21:54	M5
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/27/18 21:54	M5
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/27/18 21:54	M5
Methylene Chloride	mg/kg	ND	0.020	11/27/18 21:54	M5
n-Butylbenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
n-Hexane	mg/kg	ND	0.0050	11/27/18 21:54	M5
n-Propylbenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Naphthalene	mg/kg	ND	0.0050	11/27/18 21:54	M5
p-Isopropyltoluene	mg/kg	ND	0.0050	11/27/18 21:54	M5
sec-Butylbenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Styrene	mg/kg	ND	0.0050	11/27/18 21:54	M5
tert-Butylbenzene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Tetrachloroethene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Toluene	mg/kg	ND	0.0050	11/27/18 21:54	M5
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/27/18 21:54	M5
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/27/18 21:54	M5
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/27/18 21:54	M5
Trichloroethene	mg/kg	ND	0.0050	11/27/18 21:54	M5
Trichlorofluoromethane	mg/kg	ND	0.0050	11/27/18 21:54	M5
Vinyl acetate	mg/kg	ND	0.10	11/27/18 21:54	M5
Vinyl chloride	mg/kg	ND	0.0050	11/27/18 21:54	M5
Xylene (Total)	mg/kg	ND	0.010	11/27/18 21:54	M5
4-Bromofluorobenzene (S)	%.	97	57-130	11/27/18 21:54	M5
Dibromofluoromethane (S)	%.	106	80-127	11/27/18 21:54	M5
Toluene-d8 (S)	%.	132	72-136	11/27/18 21:54	M5

LABORATORY CONTROL SAMPLE: 2184265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.046	92	71-123	M5
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.046	91	74-121	M5
1,1-Dichloroethene	mg/kg	.05	0.041	82	71-125	M5
1,2,4-Trimethylbenzene	mg/kg	.05	0.037	73	73-111	M5
1,2-Dibromoethane (EDB)	mg/kg	.05	0.048	96	82-120	M5
1,2-Dichloroethane	mg/kg	.05	0.044	88	69-119	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

LABORATORY CONTROL SAMPLE: 2184265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	mg/kg	.05	0.047	93	76-120	M5
Benzene	mg/kg	.05	0.041	83	77-117	M5
Chlorobenzene	mg/kg	.05	0.042	83	77-111	M5
Chloroform	mg/kg	.05	0.044	88	74-114	M5
cis-1,2-Dichloroethene	mg/kg	.05	0.044	88	74-118	M5
Ethylbenzene	mg/kg	.05	0.042	85	73-114	M5
Isopropylbenzene (Cumene)	mg/kg	.05	0.042	84	78-113	M5
Methyl-tert-butyl ether	mg/kg	.05	0.045	91	75-119	M5
Naphthalene	mg/kg	.05	0.041	82	70-115	M5
Tetrachloroethene	mg/kg	.05	0.037	75	72-117	M5
Toluene	mg/kg	.05	0.041	82	77-111	M5
trans-1,2-Dichloroethene	mg/kg	.05	0.040	81	73-121	M5
Trichloroethene	mg/kg	.05	0.044	89	73-119	M5
Vinyl chloride	mg/kg	.05	0.030	60	57-160	M5
Xylene (Total)	mg/kg	.15	0.12	82	74-111	M5
4-Bromofluorobenzene (S)	%.			99	57-130	M5
Dibromofluoromethane (S)	%.			95	80-127	M5
Toluene-d8 (S)	%.			99	72-136	M5

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

QC Batch: 472508 Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50210433009, 50210433010, 50210433011, 50210433012, 50210433013

METHOD BLANK: 2180587 Matrix: Water
Associated Lab Samples: 50210433009, 50210433010, 50210433011, 50210433012, 50210433013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	11/20/18 16:29	N2
2-Methylnaphthalene	ug/L	ND	1.0	11/20/18 16:29	
Acenaphthene	ug/L	ND	1.0	11/20/18 16:29	
Acenaphthylene	ug/L	ND	1.0	11/20/18 16:29	
Anthracene	ug/L	ND	0.10	11/20/18 16:29	
Benzo(a)anthracene	ug/L	ND	0.10	11/20/18 16:29	
Benzo(a)pyrene	ug/L	ND	0.10	11/20/18 16:29	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/20/18 16:29	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/20/18 16:29	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/20/18 16:29	
Chrysene	ug/L	ND	0.50	11/20/18 16:29	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/20/18 16:29	
Fluoranthene	ug/L	ND	1.0	11/20/18 16:29	
Fluorene	ug/L	ND	1.0	11/20/18 16:29	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/20/18 16:29	
Naphthalene	ug/L	ND	1.0	11/20/18 16:29	
Phenanthrene	ug/L	ND	1.0	11/20/18 16:29	
Pyrene	ug/L	ND	1.0	11/20/18 16:29	
2-Fluorobiphenyl (S)	%.	57	10-108	11/20/18 16:29	
p-Terphenyl-d14 (S)	%.	85	10-167	11/20/18 16:29	

LABORATORY CONTROL SAMPLE: 2180588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.9	49	23-93	N2
2-Methylnaphthalene	ug/L	10	4.6	46	23-102	
Acenaphthene	ug/L	10	5.6	56	33-106	
Acenaphthylene	ug/L	10	6.1	61	35-119	
Anthracene	ug/L	10	6.3	63	28-124	
Benzo(a)anthracene	ug/L	10	7.4	74	58-140	
Benzo(a)pyrene	ug/L	10	7.5	75	53-118	
Benzo(b)fluoranthene	ug/L	10	7.1	71	55-133	
Benzo(g,h,i)perylene	ug/L	10	6.4	64	46-105	
Benzo(k)fluoranthene	ug/L	10	7.8	78	49-115	
Chrysene	ug/L	10	7.5	75	50-125	
Dibenz(a,h)anthracene	ug/L	10	6.1	61	48-112	
Fluoranthene	ug/L	10	7.2	72	53-128	
Fluorene	ug/L	10	6.2	62	39-123	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.6	66	49-109	
Naphthalene	ug/L	10	4.8	48	26-95	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

LABORATORY CONTROL SAMPLE: 2180588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	6.7	67	48-124	
Pyrene	ug/L	10	7.6	76	54-131	
2-Fluorobiphenyl (S)	%.			49	10-108	
p-Terphenyl-d14 (S)	%.			79	10-167	

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

QC Batch: 472749 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50210433001, 50210433002, 50210433003, 50210433004, 50210433005, 50210433006, 50210433007, 50210433008

METHOD BLANK: 2181589 Matrix: Solid
Associated Lab Samples: 50210433001, 50210433002, 50210433003, 50210433004, 50210433005, 50210433006, 50210433007, 50210433008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	11/25/18 17:45	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	11/25/18 17:45	
Acenaphthene	mg/kg	ND	0.0050	11/25/18 17:45	
Acenaphthylene	mg/kg	ND	0.0050	11/25/18 17:45	
Anthracene	mg/kg	ND	0.0050	11/25/18 17:45	
Benzo(a)anthracene	mg/kg	ND	0.0050	11/25/18 17:45	
Benzo(a)pyrene	mg/kg	ND	0.0050	11/25/18 17:45	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	11/25/18 17:45	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	11/25/18 17:45	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	11/25/18 17:45	
Chrysene	mg/kg	ND	0.0050	11/25/18 17:45	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	11/25/18 17:45	
Fluoranthene	mg/kg	ND	0.0050	11/25/18 17:45	
Fluorene	mg/kg	ND	0.0050	11/25/18 17:45	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	11/25/18 17:45	
Naphthalene	mg/kg	ND	0.0050	11/25/18 17:45	
Phenanthrene	mg/kg	ND	0.0050	11/25/18 17:45	
Pyrene	mg/kg	ND	0.0050	11/25/18 17:45	
2-Fluorobiphenyl (S)	%.	93	40-107	11/25/18 17:45	
p-Terphenyl-d14 (S)	%.	100	35-115	11/25/18 17:45	

LABORATORY CONTROL SAMPLE: 2181590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.29	86	49-102	N2
2-Methylnaphthalene	mg/kg	.33	0.29	86	50-104	
Acenaphthene	mg/kg	.33	0.31	93	59-119	
Acenaphthylene	mg/kg	.33	0.32	96	61-122	
Anthracene	mg/kg	.33	0.26	78	57-111	
Benzo(a)anthracene	mg/kg	.33	0.31	92	57-121	
Benzo(a)pyrene	mg/kg	.33	0.36	110	55-130	
Benzo(b)fluoranthene	mg/kg	.33	0.37	113	53-125	
Benzo(g,h,i)perylene	mg/kg	.33	0.32	97	56-124	
Benzo(k)fluoranthene	mg/kg	.33	0.32	97	55-137	
Chrysene	mg/kg	.33	0.29	87	60-134	
Dibenz(a,h)anthracene	mg/kg	.33	0.37	113	60-122	
Fluoranthene	mg/kg	.33	0.30	90	60-117	
Fluorene	mg/kg	.33	0.33	99	55-114	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

LABORATORY CONTROL SAMPLE: 2181590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.35	107	57-124	
Naphthalene	mg/kg	.33	0.27	82	54-107	
Phenanthrene	mg/kg	.33	0.28	84	60-115	
Pyrene	mg/kg	.33	0.27	81	61-135	
2-Fluorobiphenyl (S)	%.			90	40-107	
p-Terphenyl-d14 (S)	%.			91	35-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2181591 2181592

Parameter	Units	50210234001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	ND	.38	.38	0.34	0.35	89	92	20-119	2	20	N2
2-Methylnaphthalene	mg/kg	ND	.38	.38	0.34	0.35	89	91	25-114	3	20	
Acenaphthene	mg/kg	ND	.38	.38	0.36	0.36	95	95	34-124	0	20	
Acenaphthylene	mg/kg	ND	.38	.38	0.33	0.32	88	86	37-128	2	20	
Anthracene	mg/kg	ND	.38	.38	0.25	0.24	67	63	25-118	6	20	
Benzo(a)anthracene	mg/kg	ND	.38	.38	0.32	0.30	84	80	16-129	6	20	
Benzo(a)pyrene	mg/kg	ND	.38	.38	0.28	0.24	74	65	19-131	13	20	
Benzo(b)fluoranthene	mg/kg	ND	.38	.38	0.36	0.33	95	88	15-127	8	20	
Benzo(g,h,i)perylene	mg/kg	ND	.38	.38	0.25	0.22	66	59	15-128	11	20	
Benzo(k)fluoranthene	mg/kg	ND	.38	.38	0.33	0.32	87	84	14-142	4	20	
Chrysene	mg/kg	ND	.38	.38	0.32	0.31	84	81	19-141	4	20	
Dibenz(a,h)anthracene	mg/kg	ND	.38	.38	0.32	0.30	86	80	18-133	7	20	
Fluoranthene	mg/kg	ND	.38	.38	0.35	0.35	94	92	25-125	2	20	
Fluorene	mg/kg	ND	.38	.38	0.39	0.38	103	101	32-118	2	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.38	.38	0.28	0.26	75	69	11-134	9	20	
Naphthalene	mg/kg	ND	.38	.38	0.31	0.33	82	86	13-137	4	20	
Phenanthrene	mg/kg	ND	.38	.38	0.32	0.33	85	86	21-130	1	20	
Pyrene	mg/kg	ND	.38	.38	0.31	0.30	81	80	20-143	1	20	
2-Fluorobiphenyl (S)	%.						110	93	40-107			S0
p-Terphenyl-d14 (S)	%.						115	93	35-115			

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

QC Batch: 472023 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50210433001, 50210433002, 50210433003

SAMPLE DUPLICATE: 2178028

Parameter	Units	50210401001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.0	17.8	1	5	

SAMPLE DUPLICATE: 2178029

Parameter	Units	50210401004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.2	3.0	7	5	R1

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: JS1901.740.0002
Pace Project No.: 50210433

QC Batch: 472117 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50210433004, 50210433005, 50210433006, 50210433007, 50210433008

SAMPLE DUPLICATE: 2178667

Parameter	Units	50210468015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	33.4	32.8	2	5	

SAMPLE DUPLICATE: 2179029

Parameter	Units	50210468001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	14.7	3	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: JS1901.740.0002
Pace Project No.: 50210433

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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-I	Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 472508

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 473370

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 473399

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1d	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2d	Diluted due to the oily matrix of sample. CAP 11/28/2018
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4	Sample was diluted due to the presence of high levels of target analytes.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

Pace Analytical Services, LLC
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QUALIFIERS

Project: JS1901.740.0002
Pace Project No.: 50210433

ANALYTE QUALIFIERS

M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50210433001	**SB-25-2-4**	EPA 3050	471966	EPA 6010	472276
50210433002	**SB-26-2-4**	EPA 3050	471966	EPA 6010	472276
50210433003	**SB-27-2-4**	EPA 3050	471966	EPA 6010	472276
50210433004	**SB-27-6-7**	EPA 3050	471966	EPA 6010	472276
50210433005	**SB-28-2-4**	EPA 3050	471966	EPA 6010	472276
50210433006	**SB-28-6-8**	EPA 3050	471966	EPA 6010	472276
50210433007	**SB-29-2-4**	EPA 3050	471966	EPA 6010	472276
50210433008	**SB-30-4-6**	EPA 3050	471966	EPA 6010	472276
50210433009	**SB-25-GW-2-12**	EPA 3010	472369	EPA 6010	472371
50210433010	**SB-26-GW-2-12**	EPA 3010	472369	EPA 6010	472371
50210433011	**SB-28-GW-2-12**	EPA 3010	472369	EPA 6010	472371
50210433012	**SB-29-GW-4-9**	EPA 3010	472369	EPA 6010	472371
50210433013	**SB-30-GW-2-12**	EPA 3010	472369	EPA 6010	472371
50210433009	**SB-25-GW-2-12**	EPA 3510	472508	EPA 8270 by SIM LVE	472677
50210433010	**SB-26-GW-2-12**	EPA 3510	472508	EPA 8270 by SIM LVE	472677
50210433011	**SB-28-GW-2-12**	EPA 3510	472508	EPA 8270 by SIM LVE	472677
50210433012	**SB-29-GW-4-9**	EPA 3510	472508	EPA 8270 by SIM LVE	472677
50210433013	**SB-30-GW-2-12**	EPA 3510	472508	EPA 8270 by SIM LVE	472677
50210433001	**SB-25-2-4**	EPA 3546	472749	EPA 8270 by SIM	472977
50210433002	**SB-26-2-4**	EPA 3546	472749	EPA 8270 by SIM	472977
50210433003	**SB-27-2-4**	EPA 3546	472749	EPA 8270 by SIM	472977
50210433004	**SB-27-6-7**	EPA 3546	472749	EPA 8270 by SIM	472977
50210433005	**SB-28-2-4**	EPA 3546	472749	EPA 8270 by SIM	472977
50210433006	**SB-28-6-8**	EPA 3546	472749	EPA 8270 by SIM	472977
50210433007	**SB-29-2-4**	EPA 3546	472749	EPA 8270 by SIM	472977
50210433008	**SB-30-4-6**	EPA 3546	472749	EPA 8270 by SIM	472977
50210433009	**SB-25-GW-2-12**	EPA 8260	473370		
50210433010	**SB-26-GW-2-12**	EPA 8260	473370		
50210433011	**SB-28-GW-2-12**	EPA 8260	473370		
50210433012	**SB-29-GW-4-9**	EPA 8260	473370		
50210433013	**SB-30-GW-2-12**	EPA 8260	473370		
50210433001	**SB-25-2-4**	EPA 8260	473399		
50210433002	**SB-26-2-4**	EPA 8260	473399		
50210433003	**SB-27-2-4**	EPA 8260	473399		
50210433004	**SB-27-6-7**	EPA 8260	473399		
50210433005	**SB-28-2-4**	EPA 8260	473399		
50210433006	**SB-28-6-8**	EPA 8260	473399		
50210433007	**SB-29-2-4**	EPA 8260	473399		
50210433008	**SB-30-4-6**	EPA 8260	473399		
50210433001	**SB-25-2-4**	SM 2540G	472023		
50210433002	**SB-26-2-4**	SM 2540G	472023		
50210433003	**SB-27-2-4**	SM 2540G	472023		
50210433004	**SB-27-6-7**	SM 2540G	472117		
50210433005	**SB-28-2-4**	SM 2540G	472117		
50210433006	**SB-28-6-8**	SM 2540G	472117		

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JS1901.740.0002
Pace Project No.: 50210433

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50210433007	**SB-29-2-4**	SM 2540G	472117		
50210433008	**SB-30-4-6**	SM 2540G	472117		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50210433

ALL SHADED AREAS are for LAB USE ONLY

Company: AUGUST MACK ENVIRONMENTAL	Billing Information: SAME
Address: 1302 N MERIDIAN ST, SUITE 300, INDIANAPOLIS, IN	
Report To: KARA SEYMOUR	Email To: Same
Copy To: Same	Site Collection Info/Address:
Customer Project Name/Number: JS1901.740.0002	State: IN / County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 317-916-8000 Email: KSeymour@augustmack.com	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): K. MANAVAZHI	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

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

Container Preservative Type **

Lab Project Manager:

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

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	(N)	NA
Custody Signatures Present	(Y)	N	NA
Collector Signature Present	(Y)	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	12 VOC AT LIT SO35	1U PAH/LEAD	Lab Sample # / Comments
SB-25-2-4 ~~2018111~~	SL	Grab			11/13/18	1421		5	4	1	001
SB-26-2-4 ~~2018111~~						1430		5	|	|	002
SB-27-2-4 ~~2018111~~						1440		5	|	|	003
SB-27-8-9 ~~2018111~~						1445		5	|	|	004
SB-28-2-4 ~~2018111~~						1455		5	|	|	005
SB-28-6-8 ~~2018111~~						1450		5	|	|	006
SB-29-2-4 ~~2018111~~						1510		5	|	|	007
SB-30-4-6 ~~2018111~~						1520		5	↓	↓	008

Customer Remarks / Special Conditions / Possible Hazards: Bottles and chain labels are not exactly the same, Kelly Jones has been informed.

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2329099

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: (Y) N NA
Therm ID#: E
Cooler 1 Temp Upon Receipt: 0.3 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 0.3 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
R. MANAVAZHI	11/15/18 (1730)	Lucas Kayser	11/13/18 1730
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50210433

ALL SHADED AREAS are for LAB USE ONLY

Company: AUGUST MACK ENVIRONMENTAL	Billing Information: SAME
Address: 1302 N MERIDIAN ST SUITE 320, INDIANAPOLIS IN	
Report To: KARA SEYMOUR	Email To: SAME
Copy To: SAME	Site Collection Info/Address:
Customer Project Name/Number: IS1901.7140.0002	State: IN / County/City: / Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 317-916-5000 Email: kseymour@augustmack.com	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): R. MANAVAZHI	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: IN VOC BY 8260	IN PAH BY 8270 SIM	IN METALS, LAB FILTERED (CNLS) LEAD							Lab Profile/Line:
SB-25-2-12-2018115	GW	G			11/15/18	1350		6	3	2	1							009
SB-26-GW-2-12-2018115	GW	G			11/15/18	1400		6	3	2	1							010
SB-28-GW-2-12-2018115	GW	G				1406			3	2	1							011
SB-29-GW-4-9-2018115	GW	G				1410			3	2	1							012
SB-30-GW-2-12-2018115	GW	G				1415			3	2	1							013

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards: Bottles and chain labels are not exactly the same, Kelley Jones has been informed

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2329100

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: B
Cooler 1 Temp Upon Receipt: 0.3 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 0.3 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
R. Manavazhi	11/15/18 (1830)	Lucas W Kaymon (CAT LMG)	11/15/18 1730
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Pace Analytical

SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50210433

Date/Time and Initials of person examining contents: 11/15/18 gpc 1815

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☑ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 0.3C / 0.3°C Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

All discrepancies will be written out in the comments section below.

	Yes	No
Are samples from West Virginia? Document any containers out of temp.		X
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X
Chain of Custody Present:	X	
Chain of Custody Filled Out:	X	
Short Hold Time Analysis (<72hr)?: **Analysis:** TC	✓	
Time 5035A TC placed in Freezer or Short Holds To Lab:		
Rush TAT Requested:		X
Containers Intact?:	X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X	X

	Yes	No	N/A
All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted. Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			X
Dissolved Metals field filtered?:			X
Headspace Wisconsin Sulfide			X
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Headspace in VOA Vials (>6mm):	X		
Trip Blank Present?:		X	
Trip Blank Custody Seals?:		X	

Comments: Sample SB-30-4-6 1/4 vials says SB-29-6-6 but times match with SB-30. gpc 11/15/18
HS >6mm: 2/3 SB-25, 2/3 SB-28, 2/3 SB-29, 1/3 SB-30. gpc 11/15/18

Per K.Seymour on 11/26/18, change sample -004 from SB-27-8-9, to SB-27-6-7/kj

Sample Container Count

CLIENT: August Mack

COC PAGE 1 of 1

COC ID# _____

Project # 50210433

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	SBS Bulk Kit DI R	Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1							1										4	X			
2							1										4				
3							1										4				
4							1										4				
5							1										4				
6							1										4				
7							1										4				
8							1										4				
9																					
10																					
11																					
12																					

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Sample Container Count

WO# : 50210433

50210433

CLIENT: August Mack

COC PAGE ___ of ___

COC ID# _____

Project # 50210433

Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk Kit R	Matrix SI/ (Soil/Wate Aqueous I	pH <2	pH >9	pH>12
1	3	2															1		WT			
2	3	2															1					
3	3	2															1					
4	3	2															1					
5	3	2															1					
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Container Codes

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DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
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DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
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DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
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JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic
BP1N	1 liter HNO3 plastic
BP1S	1 liter H2SO4 plastic
BP1U	1 liter unpreserved plastic
BP1Z	1 liter NaOH, Zn, Ac
BP2A	500mL NaOH, Asc Acid plastic
BP2N	500mL HNO3 plastic
BP2O	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP3U	250mL unpreserved plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag