

Meritor, Inc.

SUPPLEMENTAL INITIAL SITE INVESTIGATION REPORT / WORK PLAN

Former Arvin Industries Facility
1001 Hurricane Street
Franklin, Indiana

June 27, 2019



**SUPPLEMENTAL
INITIAL SITE
INVESTIGATION
REPORT / WORK PLAN**



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ACRONYMS AND ABBREVIATIONS

AOI	area of interest
bgs	below ground surface
COC	chemicals of concern
CSM	conceptual site model
CVOC	chlorinated volatile organic compound
DI	deionized water
EMD	electromagnetic detection
FPO	Franklin Press Operations
GPR	ground penetrating radar
IDEM	Indiana Department of Environmental Management
IDNR	Indiana Department of Natural Resources
ISBH	Indiana State Board of Health
ISI	Initial Site Investigation
JCHD	Johnson County Health Department
KDL	KDL Investments, LLC
mg/kg	milligrams per kilogram
MS/MSD	matrix spike / matrix spike duplicate
MTG	mitigation to groundwater
ND	non detect
NOL	Notice of Liability
NPDES	National Pollutant Discharge Elimination System
NWI	National Wetland Inventory
PCB	polychlorinated biphenyl
PCE	tetrachloroethylene
PID	photoionization detector
PPM	parts per million
QA/QC	quality assurance / quality control
RCG	Remediation Closure Guide
RDF	Recycling and Disposal Facility

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SOP	standard operating procedure
SOW	statement of work
SPCC	Spill Prevention, Control and Countermeasures
SSOA	Source Specific Operating Agreement
SVOC	semi-volatile organic compound
SWPPP	Storm Water Pollution Prevention Plan
TAT	turnaround time
TCE	trichloroethylene
TPH	total petroleum hydrocarbons
TRI	toxic release inventory
µg/L	micrograms per liter
USCB	United States Census Bureau
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
UST	underground storage tank
VAP	vertical aquifer profiling
VFC	Virtual File Cabinet
VI	vapor intrusion
VOC	volatile organic compound

1 INTRODUCTION

This Supplemental Initial Site Investigation (ISI) Report / Work Plan has been prepared for the Former Arvin Industries (Arvin) facility (currently owned by KDL Investments, LLC (KDL)) located at 1001 Hurricane Street in Franklin, Indiana (the Site; Indiana Department of Environmental Management [IDEM] State Cleanup identification number 0000783). This Supplemental ISI Report / Work Plan has been prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Meritor, Inc. (Meritor), in response to the February 11, 2019, IDEM Notice of Liability (NOL) letter and per recent discussions with the IDEM.

This report discusses the results of the geophysical assessment, soil borings for soil and vertical aquifer profile (VAP) groundwater sampling, and a preferential pathways assessment performed at the Site between April 30, 2019 and May 10, 2019, as detailed in the ISI Work Plan, submitted to the IDEM on April 17, 2019. IDEM approved the ISI Work Plan in an electronic mail message dated April 26, 2019.

Meritor submitted an ISI Report to the IDEM on May 13, 2019 (dated May 10, 2019), detailing all known historical environmental related actions, investigations, and sampling events, which have previously been conducted at the Site. The May 10, 2019 ISI Report (ISI Report) also discusses any known and potential areas of interest (AOIs), which have been identified during prior Site investigations/assessments.

Meritor and Arcadis met with the IDEM on June 4, 2019 to discuss the results of the recent geophysical, groundwater and soil sampling, and preferential pathways assessments and recommended activities for further characterization of potential data gaps pursuant to meeting IDEM State Cleanup Program closure objectives.

1.1 Site Background

The Site occupies approximately 33 acres of land to the south of Arvin Drive and east of Hurricane Street in Franklin, Johnson County, Indiana (**Figures 1 and 2**).

The Site, which currently includes over 600,000 square feet of building space, primarily used for manufacturing and warehousing, was originally developed in the early 1900s as a wood working and furniture manufacturing facility. Noblitt-Sparks, Industries conducted operations at the Site as early as the 1930s. Historically, the facility manufactured bomb cases, munition boxes and tern-coated filler tubes. The original configuration of the building was a smaller rectangular shaped structure, which forms the southwestern portion of the existing facility building, and according to historical aerial photos, was constructed sometime between 1927 and 1948. Between 1952 and 1958, small building sections were added to the northern portion of the original building. Between 1960 and 1971, a large addition was added to the north and northwest of the original building. The final building addition appears to have taken place between 1971 and 1977, along the eastern edge of the larger addition. The facility continued to manufacture exhaust systems at the facility until Arvin operations ceased in September 2004. The facility was sold to KDL in 2005.

1.2 Site Name, Address, and Owner Contact Information

Site Name: Former Arvin Industries Facility
Facility Identification Number: IDEM State Cleanup No. 0000783

Site Address: 1001 Hurricane Street
Franklin, Johnson County, Indiana 46131
Site Contact: David O'Connor, Meritor
Property Owner Contact: KDL Investments, LLC
C/O Curt DeVoe
Plews Shadley Racher & Braun LLP
1346 North Delaware Street
Indianapolis, IN 46202-2415
Phone No: (317) 637-0700

1.3 Site Contact Responsible for Investigation

The Meritor contact for the project is:

Mr. David O'Connor
Manager Environmental Manger
Meritor, Inc.
2135 West Maple Road, B-146A
Troy, MI 48084
Phone No.: (248) 435-2706

Meritor contracted Arcadis to perform the ISI at the Site. The Arcadis contact is:

Mr. Jon Akin, P.E.
Arcadis
150 West Market Street, Suite 728
Indianapolis, Indiana 46204
Phone No.: (317) 236-2819

1.4 Regulatory Background

1.4.1 Regulatory Permitting and Plans

A summary of regulatory permits and plans historically utilized during Arvin's operations at the facility is included in the ISI Report.

1.4.2 Overview of Historical Releases

The following is a general summary of documented releases associated with the Site:

- On September 29 - 30, 1983, Arvin employees observed oily water within the east drainage ditch. Upon further examination, the ditch was observed to contain greenish yellow water, with an oily yellow film. This material was observed to be entering the City of Franklin's storm sewer further south down the ditch. Arvin employees pumped this material from the ditch, had a sample of the material tested by the Arvin chemistry lab, and concluded the material was not a pollutant.
- On March 1, 1985, an Arvin employee was collecting water samples within the east drainage ditch, and noticed a white grayish material flowing from the drainage tile located on Arvin's property. Arvin met with an inspector from the Indiana State Board of Health (ISBH), who had

been notified of the spill by the Johnson County Health Department (JCHD). It was discussed that the white grayish material appeared to be a non-oil-based metalworking lubricant/fluid (IRMCO-131), mixed with water from floor run off. The ISBH indicated that they would not issue a citation to the plant.

- On March 22, 1985, several pools of liquid were observed on the ground, flowing towards, and into the east drainage ditch. The liquid was identified by Arvin as a dilute mixture of IRMCO-131. A film was apparent on the surface of the liquid. The ISBH and the JCHD were notified and arrived onsite to observe the onsite release area, the east drainage ditch, and the downstream storm sewer discharge at Hurricane Creek near Ross Court. A slight residue was observed in the stream at a rock breaker south of a nearby culvert. Minnows were present in abundance in the stream, and no other environmental concerns were observed.
- On May 28, 1985, fuel oil was observed to have been released within the east drainage ditch, located east of the building. This release was initially contained by utilizing absorbent booms and pads within the drainage ditch, placed at 30-yard intervals from the initial area of release (18" diameter drainage tile terminating at the drainage ditch). On May 29, 1985, a hydrostatic pressure test was performed on a 10,000-gallon underground storage tank (UST) containing No. 2 fuel oil. The results of the hydrostatic pressure test revealed that the UST was leaking in the subsurface. The release, response actions, and subsequent soil disposal were reported to and/or authorized by the ISBH, Land Pollution Division. The specific location of this 10,000-gallon No. 2 fuel oil UST is not noted in available documentation, but it is suspected to be the 16,000-gallon No. 2 fuel oil UST that was removed in 1986 as detailed below.
- On November 5, 1992, Arvin identified fuel oil in the subsurface while repairing a water main adjacent to the location of a former 16,000-gallon No. 2 fuel oil UST, which was reported to be removed in 1986.
- On June 16, 1995, an Arvin employee reported seeing oil and/or non-oil lubricant on the ground in the Franklin Press Operations (FPO) scrap area. Arvin decided that it was not necessary to notify the USEPA (United States Environmental Protection Agency) of the release, as the spill had been contained and there was no entry into a waterway. However, Arvin collected surface soil samples and removed and replaced the top layer of soil within the release area. Approximately 280 cubic yards of impacted soil were removed and disposed of at the South Side Landfill in Indianapolis, Indiana.
- On February 19, 1998, six soil borings were advanced within the tube mill area prior to planned tube mill removal activities. Soil samples were collected from five of the six borings and analyzed for total petroleum hydrocarbons (TPH). The soil samples indicated the presence of TPH in three of the shallow soil samples.
- On August 7, 1998, additional soil sampling was conducted in the tube mill area following removal of concrete flooring for TPH and chromium analysis. The soil sampling indicated the presence of TPH at concentrations at or above 100 parts per million (PPM) in each of the nine soil samples. Chromium was detected in the soil samples at concentrations below the IDEM screening criteria. After the tube mills were removed, the tube mill area floor was also removed, and a new concrete floor was installed. According to historical documents, the removed concrete and accompanying

rebar were disposed at a location approximately one-half mile west of the facility. It is unknown if impacted soils were removed during the floor removal activities.

- On June 7, 2000, during the removal of a broken air compressor near the F Dock area, Arvin observed that the concrete flooring below the air compressor had deteriorated, exposing subsurface soils. These subsurface soils appeared to have been impacted with compressor oil. A total of 74.71 tons of soil were excavated from the area and disposed at the South Side Landfill. Confirmatory samples were collected from the sidewalls and base of the excavation area. Each of the sidewall samples contained TPH at concentrations above 100 milligrams per kilogram (mg/kg).

Additional details regarding these historical releases are presented in the ISI Report.

1.4.3 Historical Hazardous Waste Disposal

Based upon historical waste documentation/records, wastes generated and disposed of by Arvin include the following: trichloroethylene (TCE), polychlorinated biphenyl (PCB) containing liquids, waste paint, waste batteries, and corrosive solids. TCE is a chlorinated solvent and was last noted being disposed by Arvin in 1984. According to an IDEM memorandum dated July 11, 1990, the generation, use, storage and/or disposal of chlorinated solvents ended in 1981. It should also be noted that according to the 1985 Annual Manifest, 4,000 pounds of F002 (spent halogenated solvents) waste were disposed.

2 REGIONAL AND FACILITY SETTINGS

2.1 Surrounding Land Use

The Site is located in a mixed industrial/commercial/residential area on the northeastern side of Franklin. Residential sites are situated to the west, southwest and south of the southern corner of the Site, and commercial sites are situated along main roads and intersections (**Figure 2**). Industrial sites are situated to the north, west, and southeast of the Site. Agricultural land also lies to the north of the Site.

The northern side of the Site is bounded by Arvin Drive, with an agricultural row-crop field and a Culligan Water facility to the north of the roadway. The western side of the Site is bounded by Hurricane Street, with (from north to south) a Shelby Materials facility, residences, a restaurant, additional residences, a wrought iron shop, and a towing/garage business to the west of the roadway. The southeastern side of the Site is bounded by a former railroad line, Amphenol Corporation, Crop Production Services, Premier Ag, residences, and an auto junk yard to the south. Land to the northeast of the Site is occupied by a former cannery that was operated by Houghland Tomato.

Subsurface utilities in the area of the Site include the city water and sewer systems and natural gas and electrical utilities.

2.2 Historical Mapping and Aerial Photographs

Historical Sanborn fire insurance maps and aerial photographs of the Site were reviewed to determine if any potential areas of concern at the Site can be identified and are presented in the previously submitted ISI Report.

2.3 Ecology

2.3.1 Regional Ecology

A summary of regional ecology was presented in the ISI Report.

2.3.2 Facility Ecology

A summary of facility ecology was presented in the ISI Report.

2.4 Conceptual Site Model for Potential Human Exposure

The preliminary conceptual site model (CSM) for potential human exposure provides the framework to assess potential impacts on human health exposure. It characterizes the potential sources and identifies the exposure mediums, potential receptors, and their potential exposure routes. Exposure points are places or “points” where exposure could potentially occur, and exposure routes are the means by which constituents of interest may be taken up by the receptor (ingestion, inhalation, and dermal contact). There must be a complete exposure pathway from the source of constituents in the environment (i.e., from soil, air, groundwater) to human receptors in order for constituent intake to occur.

The Site is currently zoned/intended use is industrial. It is currently operational and is expected to remain commercial/industrial in the future. The surrounding land use is a mixture of industrial, commercial, residential, and agricultural as described above in Section 2.1.

Water for potable and non-potable uses is supplied to the Site and surrounding neighborhood by the Indiana American Water Company and is further detailed in the ISI Report. General demographics from the United States Census Bureau (USCB) American Fact Finder include the following estimates for Franklin, Indiana (USCB 2019):

- 2010 Population – 23,712
- Median Age – 38.0
- Race – Predominately white
- Median Income – \$56,367

Based upon the assessment activities completed to date, no complete exposure pathways have been identified.

2.4.1 On-site Potential Receptors, Exposure Mediums, and Exposure Routes

Previous on-site investigations, discussed in the ISI Report, have documented TPH concentrations in subsurface soils, above applicable screening levels. The recently completed groundwater and soil sampling activities identified volatile organic compounds (VOCs) in select subsurface soil and groundwater samples at concentrations above 2019 IDEM Remediation Closure Guide (RCG) residential screening levels, but below applicable IDEM RCG commercial/industrial screening levels. Based upon the data collected to date (summarized in Section 4) and the current and anticipated future industrial use of the property, no unacceptable exposure risks have been identified for on-site human receptors, which include site workers, adolescent trespassers, and future construction workers within the Site. Meritor and Arcadis met with the IDEM on June 4, 2019 to discuss the results of the recent groundwater and soil sampling and recommended activities for further characterization pursuant to meeting IDEM State Cleanup Program closure objectives (as indicated in Section 7).

2.4.2 Offsite Potential Receptors, Exposure Mediums, and Exposure Routes

Based upon the on-site investigation data collected to date, offsite investigations have not been warranted. Although VOCs were detected at select on-site locations at concentrations above IDEM RCG residential screening levels, Meritor and Arcadis feel that the potential for off-site migration of these constituents is unlikely and that these limited detections pose no unacceptable risk to off-site human receptors or the environment.

2.5 Regional Water Supply and Groundwater Use

A summary of regional water supply and groundwater use was presented in the ISI Report.

2.6 Geologic and Hydrogeologic Setting

2.6.1 Regional Geologic Setting

The Site is situated in the glaciated portion of Indiana, in an area dominated by ground moraine deposits (Tipton Till Plain). Unconsolidated deposits in the area of the Site range from 50 to 100 feet thick and overlie Devonian age shale bedrock.

Soils under the Site are mapped as Brookston silty clay loam (41%), Crosby silt loam (46%) and Rensselaer silty clay loam (13%). These soils are clay-rich soils that are developed on underlying glacial clay till. Logs for nearby water supply wells indicate that the area is underlain by at least 50 feet of clay-dominated soils that overlie sand and gravel.

Historical soil borings from previous on-site investigations which were discussed in the previously submitted May 10th, 2019, ISI Report, and those locations are depicted on **Figure 2**. During the recently completed groundwater and soil investigation, twelve soil borings were completed across the Site and are also depicted on **Figure 2**. This investigation indicates that the Site is underlain by 5 to 16 feet of topsoil/clay that overlies saturated sand that extends to approximately 14 to 24 feet below ground surface (bgs). The sand unit overlies a glacial till aquitard that extends to approximately 24 to 43 feet and overlies a second sand unit/aquifer. Arcadis could not access the bottom of the deeper sand aquifer due to heaving sands and/or refusal, and therefore, could not determine the full extent and /or thickness of the deeper sand unit. Cross section transects were generated for the Site (**Figure 3**) to depict geologic conditions and are presented in **Figures 4A** through **4D**.

Investigation of the Amphenol site to the east of the Site indicates that the former Amphenol property is underlain by five to eight feet of topsoil/clay that overlies saturated sand that extends to approximately 20 feet bgs. The sand unit overlies glacial till that extends to 30 to 35 feet bgs and overlies a second sand unit, which is approximately 12 feet thick.

Investigation of the former Houghland Tomato Cannery site to the northeast of the Site indicates that the former cannery property is underlain by 5 to 6 feet of silt that overlies sand that extends to 22 to 48 feet bgs. The sand is underlain by glacial clay till. Borings at this site did not penetrate the full thickness of the deep clay till unit.

2.6.2 Surface Water

The Site and surrounding area are generally flat, having been brought to grade for development. The general drainage in the area is to the southwest, with surface water in developed areas being controlled by storm water drains and ditches. The east drainage ditch, which drains land from the north and east of the Site, flows south across the eastern end of the Site, and then to the southeast to Hurricane Creek. Hurricane Creek is situated approximately 2,100 feet to the southeast of the Site and flows to the southwest. The South Ditch, which drains land from south of the facility, flows southwest along the southern property boundary of the Site, and then continues to Young's Creek. Young's Creek is situated approximately 4,300 feet to the southwest of the Site and flows to the southwest.

2.6.3 Hydrogeologic Setting

The Hydrogeologic Atlas of Indiana (Fenelon et al. 1994) shows the Site as being in an area that has surficial and buried sand and gravel aquifers in the unconsolidated deposits and deeper bedrock aquifers. In general, intertill aquifers in the Tipton Till Plain are laterally discontinuous over relatively short distances; however, surficial alluvial aquifers may be more laterally continuous along drainageways.

Two aquifers are identified at the neighboring Amphenol site: a shallow sand aquifer that extends from near the surface (5 to 6 feet bgs) to approximately 22 feet bgs, and a deeper sand aquifer that extends from approximately 30 to 35 feet bgs to 42 to 47 feet bgs. Groundwater flow in the shallow aquifer is to the south, and flow in the deep aquifer is to the southwest.

Geologic conditions identified at the Site are similar to the Amphenol site mentioned above. A shallow sand aquifer, ranging between 2 and 16 feet thick, extends across the Site between 5 and 21 feet bgs; generally located in the 12 to 18 feet bgs range. This shallow sand aquifer thickens eastward, as it gets closer to Hurricane Creek. A deeper sand aquifer was encountered, beginning approximately between 24 and 46 feet bgs. As noted in Section 2.6.1, Arcadis could not access the bottom of the deeper sand aquifer due to heaving sands and/or refusal, and therefore, could not determine the full extent of the thickness of this deeper sand aquifer. Cross section transects were generated for the Site (**Figure 3**) to depict geologic conditions and are presented in **Figures 4A** through **4D**. Groundwater elevations were not collected from the boreholes, therefore, Site specific groundwater flow could not be verified and/or evaluated against groundwater flow from adjacent properties.

Subsurface investigations at the former Houghland Tomato Cannery site have identified a shallow sand aquifer that extends from near surface (5 to 6 feet bgs) to 22 to 48 feet bgs. Groundwater flow in this sand is reported to be to the northwest in the area to the east of the site and to the east at the site.

3 STATEMENT OF WORK

The statement of work (SOW) is detailed in the April 17, 2019 ISI Work Plan. IDEM approved the ISI Work Plan in an electronic mail message dated April 26, 2019. Arcadis and Meritor understand that the ISI was intended to aid in the area groundwater assessment and to screen for potential vapor intrusion (VI). As the recently completed groundwater and soil sampling at the Site do not suggest any contribution to the offsite groundwater and VI assessment on nearby properties, future characterization activities will be focused for further characterization of potential on-site data gaps and meeting IDEM State Cleanup program closure objectives.

4 PROJECT INVESTIGATION

The project investigation detailed in the April 17, 2019 ISI Work Plan was completed at the Site between April 30, 2019 and May 10, 2019. These investigation activities were completed to enhance the lithological understanding of the Site, provide current soil and groundwater characterization data in regard to potential constituents of concern (COCs), use geophysical methods to evaluate the potential presence of alleged buried materials near the northeast corner of the Site, and identify potential transport pathways for site-related COCs in the subsurface. The following sections discuss the methods completed to perform the

focused geophysical, soil and groundwater, and preferential pathways assessments, as well as the results of those investigations.

4.1 Focused Geophysical Assessment

Arcadis performed a subsurface imaging survey at the Site on May 6 and 7, 2019. The principal objective of the geophysical survey was to detect and characterize subsurface metal objects that may have been buried during previous site activities beneath the specified survey areas.

4.1.1 Scope and Methodology

Based upon recent information provided to IDEM by a former Arvin employee, Arcadis contacted and met the former Arvin employee at the Site on April 30, 2019 to discuss the alleged buried materials within the northeast corner of the Site. As detailed in the April 17, 2019 ISI Work Plan, an approximate 4-acre area in the northeast portion of the Site was evaluated for potential buried materials using remote sensing equipment. Based upon the April 30, 2019 discussion with the former Arvin employee, two additional areas located west of the original propose geophysical assessment area were also evaluated (**Figures 2 and 5**).

Two technologies were used in this scope, electromagnetic metal detection (EMD) and ground penetrating radar (GPR). The EMD method was used to cover the entire areas of interest, and GPR was used to provide additional detail about specific EMD anomalies. One of the reasons for not performing the survey only with GPR is that the soil type in the area is rich in clay minerals. It was possible that the GPR would not identify buried materials underlying a cover of clayey soil. Given the historic nature and uncertainties involved, the use of both assessment methods maximized the potential for locating buried metallic materials. An arbitrary site grid was constructed to control the position of the EMD and GPR. The orientation and position of the grid was determined relative to on-site features. The survey areas investigated consisted of the site parcel located due southwest of the intersection of Arvin Drive and County Road 350 East (approximately 4.4 acres in size) and a smaller parking lot located just south of Arvin Drive (approximately 0.5 acres in size). A geo-referenced aerial photo of the survey areas is presented as **Figure 5**.

4.1.1.1 EMD Method

The EMD work was completed with an EM-61 MKII metal detector manufactured by Geonics Ltd. The EM-61MKII is a high-sensitivity, high-resolution, time-domain metal detector. It consists of two vertically separated, coaxial, square coils, each with a dimension of one meter by one meter, mounted to a wheel assembly. The instrument operator pulls the coil assembly along the line of profile while data is collected nearly continuously (one reading per approximately 0.63 feet or 19 centimeters). The EM 61 MKII is designed to take readings from the bottom coil at three successive time gates (Channels 1 through 3), and at the third time gate an additional reading is taken from the upper coil (Channel 4). The earlier time gates (Channels 1 and 2) reveal the presence of a wide range of conductive objects and are most useful for locating all metallic objects within the study area. The third time gate (Channel 3) is a more selective view of conductive objects because it tends to indicate the locations of the most extensive and most conductive objects within the upper eight feet of the subsurface. The additional measurement from the

top coil (Channel 4) is used to allow for a distinction between deeper and shallower metallic objects. The filtering effect is obtained by subtracting the bottom coil response from the top coil response to yield the “Channel Difference”. This filtering effect also somewhat delineates surficial metal objects such as vehicles, fences, buildings, awnings, and manhole covers.

4.1.1.2 EMD Data Collection and Processing

For the EMD data collection, the EM-61 was hand carried across the site in transects spaced approximately 1 meter (3.3 feet) apart, where site conditions would allow. A Hemisphere global positioning system (GPS) receiver equipped with satellite based real-time differential correction (OmniSTAR VBS subscription service with sub-meter accuracy) was used to track the position of the EM-61 as EMD data was collected. Data were collected at the rate of 10 data points per second. After the EM-61 data were collected, they were downloaded to a computer and processed with Surfer v. 16.5 to create color filled contour maps of instrument response. The maps were preliminarily interpreted while in the field for the presence of anomalous areas of interest and used to guide the GPR data collection. Given the abundance of surface and subsurface metal objects encountered, it was determined that the Channel Difference data provided the best overall view beneath the site. A map of this data is presented as **Figure 6**.

4.1.1.3 GPR Method

To increase knowledge and definition of selected sections of the site, identify areas of ground disturbance, and view the subsurface metal objects detected by the preliminary EMD survey, supplementary imaging was performed using GPR. Ideally, GPR can yield information about horizontal layering, limits of excavations and the approximate depth and position of discrete objects. The graphical outputs depicting the GPR data, such as those included in this report, illustrate the composite effect of how the environment, both above and below ground, react to the radar pulses radiated by the GPR system. Radar waves recorded by the receiver include those radiated directly from the transmitter, refracted along horizontal boundaries, reflected from objects both below and above ground, or reflected from naturally occurring features, and also extraneous radar waves from other sources. Subsurface reflections are often associated with changes in soil and rock conditions, such as bedding, cementation, moisture and clay content, voids, fractures, and intrusions, as well as man-made objects such as tanks, drums, utilities, buried waste and fill, and reinforced concrete. An interface between two soil or rock layers having sufficiently different electrical properties will show up in the radar profile.

The GPR system used to collect the data was a Sensors & Software Utility Cart with a digital video logger, and a Noggin 250 MHz antenna. Before starting field work, the instrument’s built-in odometer was calibrated using engineering tapes laid out along a straight section of the parking lot to ensure distances were measured correctly. The depth was estimated by calibration during processing by matching hyperbolic diffractions associated with well-defined subsurface objects such as pipes.

4.1.1.4 GPR Data Collection and Processing

A total of 92 GPR profiles were collected both laterally and transversely to characterize the various anomalous areas detected with the EMD and were stored in the GPR memory. The start and end positions of each profile were measured with a GPS unit.

After collection, data was processed using Sensors and Software GFP_Edit and EKKO_Project 3 software. GFP_Edit was used to verify the positions of the lines. EKKO_Project 3 was used to create cross sectional representations of the subsurface. Prior to interpretation, a dewow and background subtraction filters were applied to each section to remove noise and the gain was adjusted to improve the visibility of features of interest for each section. As mentioned above, depths were determined using a hyperbolic matching routine.

The primary method of interpretation was to visually inspect and interpret each of the individual cross sections. Interpretational picks were made in each section of the depth and position of larger discrete objects and along boundaries of contrasting materials such as coarse fill underlain by native, clayey soils. Fill boundary picks were also estimated. Typically fill materials are identified by changes in the appearance of the data. Coarse fills often allow significant subsurface penetration, and in contrast fine silt and clay soils generally allow for minimal penetration.

4.1.2 Results / Data Interpretation

The focused geophysical assessment was performed at the site on May 6, 2019 and May 7, 2019. EMD was utilized within all investigation areas on May 6, 2019 to provide a comprehensive view of subsurface metal objects, immune from soil effects. On May 7, 2019, anomalous areas noted in **Figure 5** were further investigated with GPR, to further assess the possible depth and organization of materials noted in the prior EMD assessment.

Figure 6 depicts the Channel Difference EMD data across the survey areas. On this map, known surface metal features are delineated by solid white lines, whereas observed subsurface metal features are denoted by dotted white lines. Unknown anomalous areas of elevated instrument response are outlined by solid red lines. In total, seven anomalous areas were detected (all within the larger survey area), and they are denoted as *Areas A* through *G*. It should be noted that each of these areas contains a variety of features of low to moderate elevated instrument response, which is consistent with small to moderate sized metal objects.

To better characterize the distribution and types of objects buried within anomalous *Areas A* through *G*, a total of 92 GPR profiles were collected, processed, and interpreted. Penetration depth ranged from approximately 3 to 5 feet bgs. An abundance of small, discreet metal objects interpreted to consist of general site debris was noted in all these profiles, which is consistent with previous site demolition activities. These features are generally too small and shallow to consist of drums or tanks. However, it should be noted that the debris depicted within the GPR profiles appears to extend beyond the zones of metallic response. This suggests that non-metallic debris may be present and extend beyond the anomalous areas and only metallic debris is represented by the anomalous *Areas A* through *G*. It should be noted that two soil borings were advanced immediately adjacent to the two anomalous areas with the greatest magnetic response. The analytical results of these borings are presented in Section 4.2.3. The lack of apparent soil impacts also supports the interpretation that the anomalous areas are composed of small, metallic debris, and not larger features such as drums and tanks.

Based upon the results of the soil and VAP groundwater sampling activities discussed below in Section 4.2.3, Meritor and Arcadis propose no additional activities in regard to the geophysical investigation. However, additional groundwater samples are proposed near the geophysical assessment area, as further detailed in Section 7.

4.2 Soil and Groundwater Investigation

4.2.1 Scope and Methodology

Arcadis conducted an initial subsurface investigation at the facility for geologic characterization, and to identify potential impacts to the subsurface soil and groundwater in the uppermost water bearing unit on the Site property between May 6, 2019 and May 10, 2019. As shown on **Figure 2**, this initial subsurface investigation was focused along the property boundary of the Site and in select areas outside of the former Arvin plant building, adjacent to former industrial process areas which were identified from historical data. The twelve proposed soil boring locations presented in the ISI Work Plan were refined in the field based upon the April 30, 2019 on-site walk-through with KDL staff, former Arvin employee interviews, subsurface utility locating, and the previously discussed geophysical assessment.

Prior to initiating drilling activities, the required public 811 one-call was conducted to identify utilities outside the facility and entry points into the facility; a private utility survey of the soil boring locations was also conducted (Blood Hound Underground) using EMD and GPR to identify utilities located within the property near the proposed drilling locations. Identified utilities are shown on **Figure 7** and are further discussed in Section 4.3. Hand augers were also completed at each drilling location to a depth of 5 feet bgs, prior to starting direct push drilling activities with a drill rig, as an additional line of evidence to further confirm that no subsurface utilities were located beneath the drilling locations.

The twelve soil borings were advanced by an Indiana-licensed well driller (SCS Environmental Contracting) utilizing a direct push soil probe drill rig (Geoprobe Systems® 7822DT), with dual tube capabilities. Soil cores were continuously logged until the predetermined geologic interval for that location and/or heaving sand/refusal was encountered. Once retrieved, soil cores were divided in half vertically and inspected by an Arcadis geologist/scientist for evidence of impairment (i.e., staining, odors, etc.), and were field screened for VOCs using a photo-ionization detector (PID). Soil cores were classified according to the Unified Soil Classification System (USCS) and observations include generalized grain size distribution, sorting, moisture content, consistency/density, color, and PID readings. All soil borings were classified in general accordance with the Arcadis standard operating procedures (SOPs) for soil descriptions, presented in the ISI Work Plan.

4.2.1.1 Soil Sampling

As depicted on **Figure 2**, soil was collected at 9 of the 12 boring locations; all of which were located downgradient of the facility. Eight soil sampling locations were originally proposed in the ISI Work Plan, but one additional location (SB-2) was added due to field observations. This assessment of potential impacts to the subsurface soil consisted of the collection of 1 – 2 soil samples from the shallow unsaturated zone at select soil boring locations, based upon field screening results. These locations were generally located adjacent to former industrial process areas, the geophysical anomaly areas, and/or the drainage ditch located along the southern property boundary (**Figure 2**). Soil was collected from the two highest PID depth intervals (within the unsaturated soil). If PID impacts were not observed, soil was collected from the 0-2' interval and the interval above where saturation occurred.

Soil samples were collected in laboratory-prepared sample containers (terra core kits) and submitted to Pace Analytical located in Indianapolis, Indiana, for analysis of VOCs using USEPA Method 5035, to be

analyzed on a one-week turn-around time (TAT). For Quality Assurance / Quality Control (QA/QC) purposes, additional sample volume was collected for matrix spike / matrix spike duplicate (MS/MSD) and blind duplicate analysis. One complete set of QA/QC samples was collected for every 20 samples collected for soil. Chain-of-custody documentation accompanied the soil samples to the laboratory.

4.2.1.2 Groundwater VAP Sampling

The groundwater assessment consisted of collecting VAP groundwater samples from discrete depth intervals within the shallow sand unit at the 12 soil boring locations. Each of the 12 soil borings (**Figure 2**) were drilled to depths of at least 25 feet bgs, or until a confining clay layer was encountered below the shallow sand interval/aquifer.

VAP groundwater samples were collected from the upper sand unit as follows:

1. Soil borings were advanced to a depth of at least 25 feet bgs, or until a confining clay unit was encountered beneath the shallow sand interval/aquifer.
2. A four-foot long stainless-steel well screen (hydro-punch or discrete Geoprobe screen point sampler) was advanced to the interface with the confining clay unit.
3. The tool string was then retracted 4 feet to expose the discrete stainless-steel well screen.
4. Once the screen was exposed in the desired interval, purging/development was accomplished by utilizing tubing and a check valve assembly.
5. A minimum of three well/borehole volumes were purged prior to sample collection at each sampling interval (this was repeated at each interval within a borehole).
6. At the completion of well/borehole purging from each sampling interval, water quality information (including pH, temperature, specific conductance, oxidation/reduction potential, dissolved oxygen, and turbidity) were collected using a Horiba (or equivalent) water quality instrument (**Table 1**).
7. Following field parameter measurements, a groundwater sample was collected in laboratory-prepared sample containers, and immediately stored in an ice-filled cooler.
8. The tool string was then retracted 4 feet to expose the next interval. This process was repeated for each successively shallower interval to characterize the upper sand unit.
9. New tubing was used for each VAP sampling location/interval. All down-hole tooling was washed and thoroughly decontaminated before startup of field operations and after each successive boring. Decontamination wash water was obtained from the public water supply, provided by the facility, under KDL's direction. Before each sample was collected, the core barrel and non-dedicated sampling equipment was also washed using a brush and non-phosphate laboratory grade detergent, such as Alconox®, then rinsed with de-ionized (DI) water. Decontamination water was properly containerized prior to disposal in accordance with state and federal regulations and is further discussed in Section 4.4.

Groundwater samples were collected in laboratory-prepared sample containers (40 ml vials) and submitted to Pace Analytical located in Indianapolis, Indiana, for analysis of VOCs using USEPA Method 8260B, to be analyzed on a one-week TAT. For QA/QC purposes, additional sample volume was

collected for MS/MSD and blind duplicate analysis. One complete set of QA/QC samples was collected for every 20 samples collected, for each soil and groundwater. Chain-of-custody documentation accompanied the soil and groundwater samples to the laboratory. Groundwater sampling procedures were performed in general accordance with the SOPs for low flow groundwater purging and sampling, presented in the ISI Work Plan.

4.2.1.3 Geologic Characterization

Based upon geologic characterization data from adjacent properties, in combination with historical soil borings at the Site, the geology beneath the Site was presumed to consist of a topsoil/clay unit to an approximate depth of 5 feet bgs. It was also anticipated that a sand unit would underlie the clay unit to an approximate depth of 25 feet bgs, where a confining clay layer would be encountered. A second sand unit was anticipated to be encountered below the clay confining layer to an approximate depth of 60 feet bgs.

To confirm/further verify geologic conditions beneath the Site, in conjunction with the soil and VAP sampling, a geologic characterization of the deeper aquifer was completed. This geologic characterization consisted of using a dual tube direct push soil probe to advance five soil borings, spatially distributed across the Site, to the base of the lower sand unit to characterize the deeper sand unit/aquifer.

This geologic characterization consisted of the same drilling and soil characterization methodologies previously discussed in Section 4.2.1.

4.2.2 Data Screening Method

Although historical Site laboratory results have been compared to older risk-based standards in past reports, for the purposes of the investigation to date, data results have been compared to the default IDEM Screening and Closure Level scenarios published in the 2019 RCG, Table A-6 (**Tables 2 and 3**). Site soil samples were screened using RCG commercial/industrial land use scenarios. As the RCG has no groundwater screening level for non-residential purposes, the residential tap water screening level has been used to initially screen the Site groundwater samples.

IDEM residential and commercial/industrial groundwater vapor exposure screening levels have also been used to determine potential VI.

4.2.3 Results

Arcadis and Meritor understand that this ISI at the Site was completed to aid in the assessment of area VOCs in groundwater and potential VI. Results from the previously discussed ISI activities are discussed in the sections below.

4.2.3.1 Soil

Historical soil sampling results completed at the Site are provided in the May 2019 ISI Report.

The April/May 2019 soil sampling results indicate two locations (SB-2 and SB-7) containing results above RCG soil migration to groundwater (MTG) screening levels. As noted above in Section 4.2.1.1, soil samples were collected from the two highest PID areas (within the unsaturated soil). If PID impacts were

not observed, soil was collected from the 2'-0' interval and the interval above where saturation occurred. Soil saturation was typically observed between 5 feet and 7 feet bgs across the Site. VOC soil detections above IDEM screening levels are discussed below:

- Soil sample SB-2 (5'-4') contained concentrations of naphthalene at 709 micrograms per kilogram ($\mu\text{g}/\text{kg}$), which is above the soil MTG screening level of 110 $\mu\text{g}/\text{kg}$; but, is well below the soil exposure direct contact screening level for commercial/industrial (170,000 $\mu\text{g}/\text{kg}$) land use. Soil sampling at this location was based off field screening and visual criteria.
- Soil sample SB-7 (4'-2') contained concentrations of vinyl chloride at 24.7 $\mu\text{g}/\text{kg}$, which is above the soil MTG screening level of 14.0 $\mu\text{g}/\text{kg}$; but, is well below the soil exposure direct contact screening levels for commercial/industrial (17,000 $\mu\text{g}/\text{kg}$) land use. No concentrations were detected above IDEM screening levels in the soil sample collected from the underlying sample interval (soil sample SB-7 (6'-4')).

Low level VOC detections (below IDEM screening levels) of select constituents were noted in several locations: SB-2 (5'-4'), SB-4 (2'-0'), SB-4 (4'-2'), SB-5 (4'-2'), SB-5 (5'-4'), SB-7 (4'-2'), SB-7 (6'-4'), SB-11 (2'-0'), and Dup-5 (050919). Dup-5 (050919) was a field duplicate sample collected at SB-10 (4'-2'); SB-10 (4'-2') was non detect (ND) for all VOCs. Low level VOCs detected include the following: acetone, n-butylbenzene, sec-butylbenzene, 1,2-dichlorobenzene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, isopropylbenzene (cumene), p-isopropyltoluene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, n-propylbenzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.

A full list of April/May 2019 soil sample results is presented in **Table 2**, with all results detected above IDEM screening levels presented in **Figure 8**. Lab data reports are also provided in **Appendix A**.

4.2.3.2 Groundwater

No known historical groundwater sampling activities have been completed at the Site.

The April/May 2019 groundwater sampling results indicate four (4) locations (SB-2, SB-4, SB-7, and SB-11) containing results above IDEM's 2019 RCG Screening Levels. SB-2 contained detections above screening levels within three separate intervals; a total of six samples contained detections above screening levels. As noted above in Section 4.2.1.2, VAP groundwater samples were collected in 4-foot discrete intervals to characterize the shallow sand unit. The number of VAP groundwater samples collected at each location was dependent upon the saturated thickness of the shallow sand unit. Groundwater results were initially compared to residential screening levels, as there are no commercial/industrial screening levels for groundwater in IDEM's 2019 RCG; VOC groundwater detections above IDEM screening levels are discussed below:

- Groundwater samples collected from SB-2 contained naphthalene at concentrations above IDEM residential groundwater screening level of 1.7 micrograms per liter ($\mu\text{g}/\text{L}$) at all three depth intervals: SB-2 (9'-5') at 8.0 $\mu\text{g}/\text{L}$, SB-2 (13'-9') at 5.8 $\mu\text{g}/\text{L}$, and SB-2 (17'-13') at 4.4 $\mu\text{g}/\text{L}$. All of these were well below the IDEM VI screening levels for residential (110 $\mu\text{g}/\text{L}$) and commercial/industrial (460 $\mu\text{g}/\text{L}$) exposure.
- The groundwater sample collected from SB-4 (14'-10') contained 1,1-dichloroethane at a concentration (140 $\mu\text{g}/\text{L}$) above the IDEM residential screening level of 28.0 $\mu\text{g}/\text{L}$. This detection was also just above the IDEM VI residential screening level of 130 $\mu\text{g}/\text{L}$, but below the commercial/industrial screening level of 550 $\mu\text{g}/\text{L}$. Please note that SB-4 is located

approximately 150 feet away from the closest property boundary, so the use of the residential VI screening level is not appropriate for this location.

- The groundwater sample collected from SB-4 (14'-10') also contained 1,1,1-trichloroethane at 256 µg/L, above the IDEM residential groundwater screening level of 200 µg/L. This detection was well below the IDEM VI exposure residential screening level (13,000 µg/L) and commercial/industrial screening level (54,000 µg/L).
- The groundwater sample collected from SB-7 (17'-13') contained vinyl chloride at 24.7 µg/L, above the IDEM residential groundwater screening level of 2.0 µg/L. This detection was also above the IDEM VI exposure residential screening level of 2.1 µg/L, but below the commercial/industrial screening level of 35.0 µg/L. Please note that SB-7 is located approximately 150 feet away from the closest property boundary, so the use of the residential VI screening level is not appropriate for this location.
- The groundwater sample collected from SB-11 (13'-9') contained tetrachloroethylene (PCE) at 7.8 µg/L, slightly above the IDEM residential groundwater screening level of 5.0 µg/L. This detection was well below the IDEM VI exposure residential screening level (110 µg/L) and commercial/industrial screening level (470 µg/L). No concentrations were detected above IDEM screening levels in the groundwater intervals directly below in this location, at SB-11 (17'-13') and SB-11 (21'-17').

Low level VOC detections (below IDEM screening levels) of select constituents were noted in several locations: SB-2 (9'-5'), SB-2 (13'-9'), SB-2 (17'-13'), SB-4 (14'-10'), SB-5 (18'-14'), and SB-7 (17'-13'). Low level VOCs detected include the following: cis-1,2-dichloroethene, n-hexane, isopropylbenzene (cumene), and n-propylbenzene.

A full list of the April/May 2019 groundwater sampling results is presented in **Table 3**, with all detections above IDEM screening levels presented in **Figure 9**. Lab data reports are also provided in **Appendix A**.

4.2.3.3 Geologic Characterization

During the April/May 2019 subsurface investigation, seven soil borings were completed to the base of the shallow sand aquifer, with the remaining 5 soil borings advanced through the underlying glacial till (silty clay) aquitard into the underlying (deeper) sand unit. This investigation indicated that the Site is underlain by 5 to 16 feet of topsoil/clay that overlies saturated sand which extends from approximately 5 to 24 feet bgs; ranging in thickness from 2 feet to 16 feet. This shallow sand aquifer thickens on the eastern portion of the Site. The shallow sand unit overlies a glacial till aquitard that extends to approximately 24 to 43 feet, which overlies a second sand aquifer. Arcadis could not access the bottom of the deeper sand aquifer at any of the soil boring locations due to heaving sands and/or refusal, and therefore, could not determine the full extent of the thickness of the deeper sand unit. Cross sections were generated for the Site to depict these geologic conditions and are presented in **Figures 4A** through **4D** and transect locations are referenced in **Figure 3**. Soil boring logs are also presented in **Appendix B**.

4.3 Preferential Pathway Assessment

4.3.1 Scope and Methodology

A preferential pathway assessment was completed as part of this ISI to identify the depth, diameter, and location of current and former utilities which may allow for migration of shallow groundwater. The assessment within the facility was focused on the accessible areas, as equipment and materials staging areas limited the extent of the indoor evaluation.

4.3.2 Results

The tasks associated with completion of the preferential pathway assessment included the following:

- Contacted the City of Franklin to obtain utility area maps for sanitary and storm sewer lines.
- Contacted Indiana - American Water (IAW) to request utility maps for area water lines, but IAW could not share these maps.
- Contacted the public utility location service (Indiana 811) to identify other utilities the City of Franklin is not responsible for; such as gas lines, electrical lines, etc.
- Obtained private utility location services (Blood Hound Underground) for areas near soil boring locations.
- Obtained data from historical sources to include Sanborn Maps, aerial photo maps, city address directories, topographic maps and any other historical data available.
- Conducted interviews with former employees of the facility who may have institutional knowledge of any former operations which were conducted at the Site.
- Conducted a site walk-through on May 9, 2019, to assist in identifying any potential Preferential Pathways to include items such as vent pipes, former pits and trenches, stairwell and elevator structures and other visible structures. The May 9, 2019, site walk-through also included visual inspection of all accessible sanitary, storm and water lines within and/or directly adjacent to the Site via surface grates, manholes and/or hatches.

As previously discussed, groundwater was typically observed between 12 feet and 18 feet bgs on the eastern and central portions of the Site, with groundwater becoming shallower on the eastern portion of the site (observed at approximately 7.5 feet bgs). Based on visual inspections and manual measurements of all accessible sanitary sewers, storm sewers, and water lines via surface grates, manholes and/or hatches, the utilities identified are located above the first encountered groundwater at the Site. It is not believed that these underground utilities present a pathway for off-site groundwater migration. The results of this preferential pathway assessment are presented on **Figure 7**.

4.4 Waste

All investigation derived wastes (IDW soil cuttings and decontamination/purge water) generated during the soil and groundwater investigation were properly containerized in Department of Transportation (DOT) approved 55-gallon drums prior to offsite disposal in accordance with state and federal regulations. All IDW drums are stored in a designated drum storage area on the KDL property. Composite waste characterization samples were collected for both soil and liquid (decontamination & purge water) for:

TCLP (VOCs, semi-volatile organic compounds [SVOCs], and metals), pH, and Flashpoint; with no COCs detected above laboratory detection limits. Waste drum disposal arrangements are currently being coordinated for proper disposal at Waste Management's Twin Bridges Recycling and Disposal Facility (RDF) in Danville, Indiana.

5 HISTORICAL SITE ACTIVITIES, INVESTIGATIONS & REPORTS

All historical Site activities, investigation, and reports are presented in the previously submitted May 10, 2019, ISI Report. A summary of environmental assessments performed on nearby properties is also presented in the ISI Report.

6 CONCEPTUAL SITE MODEL

The previously discussed geophysical, soil and groundwater, and preferential pathways assessments have been used to refine the conceptual site model information presented in the ISI Report. Geologic cross section figures generated for the Site are presented in **Figures 4A** through **4D**, with the transect locations being referenced in **Figure 3**. As monitoring wells were not installed, groundwater elevations could not be measured for determination of Site-specific groundwater flow direction or comparison to groundwater flow trends on adjacent properties, where groundwater flow is generally to the southwest.

Although VOC impacts were noted in select soil and groundwater samples during the April/May 2019 subsurface investigation, the VOC impacts were detected at concentrations below commercial/industrial screening levels and are spatially sporadic in nature. Based upon the data collected to date, there has been no identified unacceptable exposure risk associated with these limited impacts.

7 SUMMARY OF RECOMMENDATIONS / WORK PLAN

The completed ISI activities detailed in this Supplemental ISI Report / Work Plan were primarily intended to aid in the area groundwater assessment and to screen for potential VI exposure. As the recently completed groundwater and soil sampling at the Site do not suggest any contribution to the broader area groundwater and VI assessment, future characterization activities will be focused for further characterization of potential on-site data gaps and meeting IDEM State Cleanup program closure objectives.

On June 4, 2019, Meritor and Arcadis met with IDEM to discuss the results of the ISI activities. During this discussion, IDEM recommended the following additional tasks to be completed for further characterization:

- Advance one additional soil boring along the south property boundary between soil borings SB-3 and SB-5 and collect a groundwater sample for further characterization of groundwater VOC detections in soil boring SB-4.
- Install temporary piezometers (1-inch monitoring wells) at three locations for groundwater elevation measurements and determination of groundwater flow direction.
- Collect a surface water sample from the east drainage ditch for VOCs analysis.

In addition to the IDEM recommended activities, Meritor proposes to perform the following additional activities to meet IDEM State Cleanup program closure objectives:

- Collect a second surface water sample from the east drainage ditch for VOCs analysis.
- Advance five additional soil borings and collect groundwater samples for characterization of groundwater VOC detections.
- Install a total of eight temporary piezometers for groundwater elevation measurements and determination of groundwater flow direction.

The proposed sampling and monitoring locations are shown on **Figure 10**. Meritor requests IDEM feedback on this proposed work plan. Following IDEM approval, Meritor will coordinate the additional investigation activities with KDL, perform the work, and provide these results to IDEM in a Further Site Investigation Report.

8 REFERENCES

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TABLES



Table 1
Vertical Aquifer Profiling Groundwater Parameters
Former Arvin Insutries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location	Sample Interval (feet bgs)	Date	Purge Time	Redox Potential (millivolts)	Dissolved Oxygen (mg/L)	pH (s.u.)	Specific Conductance (mS/cm)	Temperature (degrees Celcius)	Turbidity (NTU)	Purge Volume (gallons)	Color / Odor	Comments
SB-1	7 - 11	5/6/2019	1107 - 1118	61	13.01	7.35	0.923	16.19	>1,000	3	Tan / No	--
SB-1	11 - 15	5/6/2019	1047 - 1053	107	6.37	7.21	1.08	15.4	>1,000	2	Tan / No	--
SB-2	5 - 9	5/6/2019	1715 - 1731	-83	6.32	7.41	2.09	14.99	>1,000	3	Tan / Slight	--
SB-2	9 - 13	5/6/2019	1655 - 1708	-107	3.97	7.45	2.07	16.24	>1,000	3	Tan / No	--
SB-2	13 - 17	5/6/2019	1630 - 1640	-123	4.84	7.57	1.92	18.58	>1,000	3	Tan / No	--
SB-3	7 - 11	5/7/2019	1025 - 1049	-61	15.98	6.97	0.709	14.18	>1,000	4	Tan / No	--
SB-3	11 - 15	5/7/2019	1000 - 1021	-111	2.43	6.76	0.703	14.75	>1,000	3	Tan / No	--
SB-3	15 - 19	5/7/2019	0945 - 0958	40	5.1	6.09	0.791	16.32	>1,000	3	Tan / No	--
SB-4	10 - 14	5/7/2019	1155 - 1213	-78	4.34	7.18	0.85	18.63	>1,000	4	Tan / No	--
SB-5	14 - 18	5/7/2019	1335 - 1351	-77	4.24	7.63	0.726	19.42	>1,000	4	Tan / No	--
SB-6	11 - 15	5/7/2019	1559 - 1621	-110	10.96	7.6	1.43	15.33	>1,000	7.5	Tan / No	--
SB-7	13 - 17	5/8/2019	1241 - 1300	-54	2.08	7.73	0.9	18.15	>1,000	3	Tan / No	--
SB-8	8 - 12	5/8/2019	1715 - 1735	--	--	--	--	--	--	--	--	No Water Yield
SB-8	12 - 16	5/8/2019	1700 - 1710	8	9.25	8.1	--	18.18	>1,000	0.1	Brown / No	Very Limited Water Yield
SB-9	12 - 16	5/9/2019	1320 - 1344	-240	2.94	14	1.03	15.34	>1,000	1	Brown / No	Limited Water Yield
SB-10	12 - 16	5/9/2019	1620 - 1641	33	9.52	8.61	1.59	15.46	>1,000	7	Tan / No	--
SB-11	9 - 13	5/10/2019	1125 - 1143	113	8.96	8.06	0.93	11.08	>1,000	4	Tan / No	--
SB-11	13 - 17	5/10/2019	1105 - 1118	116	11.16	8.38	0.892	11.58	>1,000	3	Tan / No	--
SB-11	17 - 21	5/10/2019	1030 - 1058	25	9.37	9.24	0.902	11.96	>1,000	4	Tan / No	--
SB-12	6 - 10	5/10/2019	1405 - 1408	63	32.67	7.67	1.15	11.28	>1,000	0.25	Brown / No	Very Limited Water Yield
SB-12	13 - 17	5/10/2019	1343 - 1353	131	10.75	8.73	0.969	11.93	>1,000	3	Tan / No	--
SB-12	20 - 24	5/10/2019	1320 - 1338	17	11.73	13.1	0.982	12.73	>1,000	8	Tan / No	--

Table 2
Soil Sampling Analytical Results
Former Arvin Industries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location		IDEM	IDEM	SB-01	SB-01	SB-02	SB-03	SB-03	SB-03	SB-04	SB-04	SB-05	SB-05	SB-06	SB-06
Sample Name		Soil	Soil	SB-1 (2-0)	SB-1 (4-2)	SB-2 (5-4)	SB-3 (2-0)	SB-3 (4-2)	DUP-2 (050719)	SB-4 (2-0)	SB-4 (4-2)	SB-5 (4-2)	SB-5 (5-4)	SB-6 (2-0)	SB-6 (4-2)
Sample Date		Migration to	Direct Contact	5/6/2019	5/6/2019	5/6/2019	5/7/2019	5/7/2019	5/7/2019	5/7/2019	5/7/2019	5/7/2019	5/7/2019	5/7/2019	5/7/2019
Sample Depth (feet)	Unit	Groundwater	Industrial	0-2	2-4	4-5	0-2	2-4	2-4	0-2	2-4	2-4	4-5	0-2	2-4
VOCs (8260)															
Ethylbenzene	mg/kg	16	250	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Hexachloro-1,3-butadiene	mg/kg	0.054	17	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Hexane	mg/kg	210	140	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Iodomethane	mg/kg			< 0.0881 U	< 0.0958 U	< 5.04 U	< 0.0997 U	< 0.0992 U	< 0.109 U	< 0.0923 U	< 0.109 U	< 0.114 U	< 0.0999 U	< 0.0873 U	< 0.102 U
Isopropylbenzene	mg/kg	15	270	< 0.0044 U	< 0.0048 U	0.255	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	0.0139	< 0.0044 U	< 0.0051 U
Methyl N-Butyl Ketone (2-Hexanone)	mg/kg	0.18	1,300	< 0.0881 U	< 0.0958 U	< 5.04 U	< 0.0997 U	< 0.0992 U	< 0.109 U	< 0.0923 U	< 0.109 U	< 0.114 U	< 0.0999 U	< 0.0873 U	< 0.102 U
Methyl-tert-butylether	mg/kg	0.63	2,100	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Naphthalene	mg/kg	0.11	170	< 0.0044 U	< 0.0048 U	0.709 C0	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	0.0094	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
n-Butylbenzene	mg/kg	64	110	< 0.0044 U	< 0.0048 U	0.265	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	0.0073	0.0893	< 0.0044 U	< 0.0051 U
n-Propylbenzene	mg/kg	25	260	< 0.0044 U	< 0.0048 U	0.849	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	0.0360	< 0.0044 U	< 0.0051 U
sec-Butylbenzene	mg/kg	120	150	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	0.0598	< 0.0044 U	< 0.0051 U
Styrene (Monomer)	mg/kg	2.2	870	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
tert-Butylbenzene	mg/kg	31	180	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Tetrachloroethene	mg/kg	0.045	170	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Toluene	mg/kg	14	820	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Total Xylenes	mg/kg	200	260	< 0.0088 U	< 0.0096 U	< 0.504 U	< 0.01 U	< 0.0099 U	< 0.0109 U	< 0.0092 U	< 0.0109 U	< 0.0114 U	< 0.01 U	< 0.0087 U	< 0.0102 U
trans-1,2-Dichloroethene	mg/kg	0.62	1,900	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
trans-1,3-Dichloropropene	mg/kg			< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
trans-1,4-Dichloro-2-butene	mg/kg	0.00012	0.32	< 0.0881 U	< 0.0958 U	< 5.04 U	< 0.0997 U	< 0.0992 U	< 0.109 U	< 0.0923 U	< 0.109 U	< 0.114 U	< 0.0999 U	< 0.0873 U	< 0.102 U
Trichloroethene	mg/kg	0.036	19	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0057 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Vinyl acetate	mg/kg	1.7	2,800	< 0.0881 U	< 0.0958 U	< 5.04 U	< 0.0997 U	< 0.0992 U	< 0.109 U	< 0.0923 U	< 0.109 U	< 0.114 U	< 0.0999 U	< 0.0873 U	< 0.102 U
Vinyl chloride	mg/kg	0.014	17	< 0.0044 U	< 0.0048 U	< 0.252 U	< 0.0050 U	< 0.0050 U	< 0.0054 U	< 0.0046 U	< 0.0054 U	< 0.0071 U	< 0.0050 U	< 0.0044 U	< 0.0051 U
Other															
Percent Moisture	%			18.8	19.0	19.4	13.4	18.8	18.7	9.5	18.1	21.9	18.9	9.1	18.7

All results compared to the Indiana Department of Environmental Management (IDEM), March 9, 2019.

Table 6. <http://www.in.gov/idem/landquality/2395.htm>.

Bold - Result exceeds the IDEM Direct Contact Screening Levels for the residential exposure pathway.

Italics - Result exceeds the IDEM Direct Contact Screening Levels for the commercial/industrial worker exposure pathway.

Shaded - Result exceeds the IDEM the Soil Migration to Groundwater screening levels.

< RL - Result not detected above the Reporting Limit.

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

1d - Benzene ND at an estimated RL of 34 ug/kg, based on the MDL. KRM

L1 - Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

N2 - Lab does not hold NELAC/TNI accreditation for this parameter but other certifications may apply. List of certifications is available upon request

CO - Result confirmed by second analysis.

R1 - RPD value was outside control limits.

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

mg/kg - milligrams per kilogram

Table 2
Soil Sampling Analytical Results
Former Arvin Industries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location		IDEM	IDEM	SB-07	SB-07	SB-09	SB-09	SB-10	SB-10	SB-10	SB-11	SB-11	SB-12	SB-12
Sample Name		Soil	Soil	SB-7 (4-2)	SB-7 (6-4)	SB-9 (2-0)	SB-9 (4-2)	SB-10 (2-0)	SB-10 (4-2)	DUP-5(050919)	SB-11 (2-0)	SB-11 (4-2)	SB-12 (2-0)	SB-12 (4-2)
Sample Date		Migration to	Direct Contact	5/8/2019	5/8/2019	5/9/2019	5/9/2019	5/9/2019	5/9/2019	5/9/2019	5/10/2019	5/10/2019	5/10/2019	5/10/2019
Sample Depth (feet)	Unit	Groundwater	Industrial	2-4	4-6	0-2	2-4	0-2	2-4	2-4	0-2	2-4	0-2	2-4
VOCs (8260)														
Ethylbenzene	mg/kg	16	250	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Hexachloro-1,3-butadiene	mg/kg	0.054	17	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Hexane	mg/kg	210	140	< 0.0052 U	< 0.0061 U	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	0.0083	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Iodomethane	mg/kg			< 0.104 U	< 0.121 U	< 0.11 U	< 0.0953 U	< 0.0950 U	< 0.109 U	< 0.0994 U	< 0.0906 U	< 0.0936 U	< 0.0944 U	< 0.104 U
Isopropylbenzene	mg/kg	15	270	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Methyl N-Butyl Ketone (2-Hexanone)	mg/kg	0.18	1,300	< 0.104 U	< 0.121 UR1	< 0.11 U	< 0.0953 U	< 0.0950 U	< 0.109 U	< 0.0994 U	< 0.0906 U	< 0.0936 U	< 0.0944 U	< 0.104 U
Methyl-tert-butylether	mg/kg	0.63	2,100	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Naphthalene	mg/kg	0.11	170	< 0.0052 U	0.0278 M1R1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0050 U	< 0.0047 U	< 0.0048 U	< 0.0052 U
n-Butylbenzene	mg/kg	64	110	< 0.0052 U	0.0684 M1R1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
n-Propylbenzene	mg/kg	25	260	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
sec-Butylbenzene	mg/kg	120	150	< 0.0052 U	0.0278 M1R1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Styrene (Monomer)	mg/kg	2.2	870	< 0.0052 U	< 0.0061 UM1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
tert-Butylbenzene	mg/kg	31	180	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Tetrachloroethene	mg/kg	0.045	170	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	0.0046	< 0.0047 U	< 0.0047 U	< 0.0052 U
Toluene	mg/kg	14	820	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Total Xylenes	mg/kg	200	260	< 0.0104 U	< 0.0121 URS	< 0.0110 U	< 0.0095 U	< 0.0095 U	< 0.0109 U	< 0.0099 U	< 0.0091 U	< 0.0094 U	< 0.0094 U	< 0.0104 U
trans-1,2-Dichloroethene	mg/kg	0.62	1,900	0.0099	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
trans-1,3-Dichloropropene	mg/kg			< 0.0052 U	< 0.0061 UM1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
trans-1,4-Dichloro-2-butene	mg/kg	0.00012	0.32	< 0.104 U	< 0.121 U	< 0.11 U	< 0.0953 U	< 0.0950 U	< 0.109 U	< 0.0994 U	< 0.0906 U	< 0.0936 U	< 0.0944 U	< 0.104 U
Trichloroethene	mg/kg	0.036	19	< 0.0052 U	< 0.0061 UR1	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Vinyl acetate	mg/kg	1.7	2,800	< 0.104 U	< 0.121 UM1	< 0.11 U	< 0.0953 U	< 0.0950 U	< 0.109 U	< 0.0994 U	< 0.0906 U	< 0.0936 U	< 0.0944 U	< 0.104 U
Vinyl chloride	mg/kg	0.014	17	0.0203	< 0.0061 U	< 0.0055 U	< 0.0048 U	< 0.0048 U	< 0.0054 U	< 0.0050 U	< 0.0045 U	< 0.0047 U	< 0.0047 U	< 0.0052 U
Other														
Percent Moisture	%			11.7	14.1	21.3	16.3	16.2	19.1	20.5	13.4	13.7	13.9	14.9

All results compared to the Indiana Department of Environmental Management (IDEM), March 9, 2019.

Table 6. <http://www.in.gov/idem/landquality/2395.htm>.

Bold - Result exceeds the IDEM Direct Contact Screening Levels for the residential exposure pathway.

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< RL - Result not detected above the Reporting Limit.

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

1d - Benzene ND at an estimated RL of 34 ug/kg, based on the MDL. KRM

L1 - Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

N2 - Lab does not hold NELAC/TNI accreditation for this parameter but other certifications may apply. List of certifications is available upon request

CO - Result confirmed by second analysis.

R1 - RPD value was outside control limits.

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

mg/kg - milligrams per kilogram

Table 3
Groundwater Sampling Analytical Results
Former Arvin Industries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location Sample Name Sample Date Sample Depth Lab SDG #	Unit	IDEM Tap Residential	IDEM Vapor Exposure Residential to GW	IDEM Vapor Exposure COM/IND to GW	SB-01 SB-01 (11-7) GW 5/6/2019 7-11 50224029	SB-01 SB-01 (15-11) GW 5/6/2019 11-15 50224029	SB-02 SB-2 (9-5) GW 5/6/2019 5-9 50224029	SB-02 SB-2 (13-9) GW 5/6/2019 9-13 50224029	SB-02 SB-2 (17-13) GW 5/6/2019 13-17 50224029	SB-03 SB-3(11-7) GW 5/7/2019 7-11 50224152	SB-03 SB-3(15-11) GW 5/7/2019 11-15 50224152
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	5.7			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,1-Trichloroethane	ug/l	200	13,000	54,000	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2,2-Tetrachloroethane	ug/l	0.76	72	310	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2-Trichloroethane	ug/l	5	11	46	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	ug/l	28	130	550	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	ug/l	7	300	1,300	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichlorobenzene	ug/l	7			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichloropropane	ug/l	0.0075			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,4-Trichlorobenzene	ug/l	70			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,4-Trimethylbenzene	ug/l	56			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromoethane	ug/l	0.05			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichlorobenzene	ug/l	600			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloroethane	ug/l	5	50	210	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloropropane	ug/l	5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3,5-Trimethylbenzene	ug/l	60			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichloropropane	ug/l	370			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,4-Dichlorobenzene	ug/l	75			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1-Methylnaphthalene	ug/l	11			< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	< 10.0 UN2
2,2-Dichloropropane	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Butanone (MEK)	ug/l	5,600			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U
2-Chlorotoluene	ug/l	240			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Methylnaphthalene	ug/l	36			< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
4-Chlorotoluene	ug/l	250			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Methyl-2-Pentanone	ug/l	6,300			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U
Acetone	ug/l	14,000			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Acrolein	ug/l	0.042			< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U
Acrylonitrile	ug/l	0.52			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Benzene	ug/l	5	28	120	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromobenzene	ug/l	62			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromochloromethane	ug/l	83			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromodichloromethane	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromoform	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromomethane	ug/l	7.5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Disulfide	ug/l	810			< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Carbon Tetrachloride	ug/l	5	6.5	28	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-11	ug/l	5,200			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-12	ug/l	200			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorobenzene	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorodibromomethane	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroethane	ug/l	21,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloromethane	ug/l	190			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	ug/l	70			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,3-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Cymene (p-Isopropyltoluene)	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U

Table 3
Groundwater Sampling Analytical Results
Former Arvin Industries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location Sample Name Sample Date Sample Depth Lab SDG #	Unit	IDEM Tap Residential	IDEM Vapor Exposure Residential to GW	IDEM Vapor Exposure COM/IND to GW	SB-01 SB-01 (11-7) GW 5/6/2019 7-11 50224029	SB-01 SB-01 (15-11) GW 5/6/2019 11-15 50224029	SB-02 SB-2 (9-5) GW 5/6/2019 5-9 50224029	SB-02 SB-2 (13-9) GW 5/6/2019 9-13 50224029	SB-02 SB-2 (17-13) GW 5/6/2019 13-17 50224029	SB-03 SB-3(11-7) GW 5/7/2019 7-11 50224152	SB-03 SB-3(15-11) GW 5/7/2019 11-15 50224152
VOCs											
Dibromomethane	ug/l	8.3			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Dichloromethane	ug/l	5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Ethyl Methacrylate	ug/l	630			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Ethylbenzene	ug/l	700			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Hexachloro-1,3-butadiene	ug/l	1.4			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Hexane	ug/l	1,500			< 5.0 U	< 5.0 U	30.1	22.1	17.8	< 5.0 U	< 5.0 U
Iodomethane	ug/l				< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Isopropylbenzene	ug/l	450			< 5.0 U	< 5.0 U	5.6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Methyl N-Butyl Ketone (2-Hexanone)	ug/l	38			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U
Methyl-tert-butylether	ug/l	140			< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U
Naphthalene	ug/l	1.7	110	460	< 1.7 U	< 1.7 U	8.0	5.8	4.4	< 1.7 U	< 1.7 U
n-Butylbenzene	ug/l	1,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	ug/l	660			< 5.0 U	< 5.0 U	14.3	11.6	8.9	< 5.0 U	< 5.0 U
sec-Butylbenzene	ug/l	2,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Styrene (Monomer)	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
tert-Butylbenzene	ug/l	690			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	ug/l	5	110	470	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Total Xylenes	ug/l	10,000			< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
trans-1,2-Dichloroethene	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,3-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,4-Dichloro-2-butene	ug/l	0.013			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Trichloroethene	ug/l	5	9.1	38	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl acetate	ug/l	410			< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U
Vinyl chloride	ug/l	2	2.1	35	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

All results compared to the Indiana Department of Environmental Management (IDEM), March 9, 2019.

Table 6. <http://www.in.gov/idem/landquality/2395.htm>.

Bold - Result exceeds the IDEM Residential Tap Water screening levels.

Shaded - Result exceeds the IDEM Residential Vapor Exposure to Groundwater screening level.

Italics - Result exceeds the IDEM Commercial/Industrial Vapor Exposure to Groundwater screening level.

< RL - Result not detected above the Reporting Limit.

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

N2 - Lab does not hold NELAC/TNI accreditation for this parameter but other certifications may apply. List of certifications is available upon request

ug/l - Micrograms per liter

Table 3
Groundwater Sampling Analytical Results
Former Arvin Industries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location Sample Name Sample Date Sample Depth Lab SDG #	Unit	IDEM Tap Residential	IDEM Vapor Exposure Residential to GW	IDEM Vapor Exposure COM/IND to GW	SB-03 DUP-1 (050719) 5/7/2019 11-15 50224152	SB-03 SB-3(19-15) GW 5/7/2019 15-19 50224152	SB-04 SB-4(14-10) GW 5/7/2019 10-14 50224152	SB-05 SB-5(18-14) GW 5/7/2019 14-18 50224152	SB-06 SB-6(15-11) GW 5/7/2019 11-15 50224152	SB-07 SB-7 (17-13) GW 5/8/2019 13-17 50224339	SB-08 SB-8 (16-12) GW 5/8/2019 12-16 50224339
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	5.7			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,1-Trichloroethane	ug/l	200	13,000	54,000	< 5.0 U	< 5.0 U	256	< 5.0 U	< 5.0 UL1	< 5.0 U	< 5.0 U
1,1,2,2-Tetrachloroethane	ug/l	0.76	72	310	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2-Trichloroethane	ug/l	5	11	46	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	ug/l	28	130	550	< 5.0 U	< 5.0 U	140	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	ug/l	7	300	1,300	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichlorobenzene	ug/l	7			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichloropropane	ug/l	0.0075			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,4-Trichlorobenzene	ug/l	70			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,4-Trimethylbenzene	ug/l	56			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromoethane	ug/l	0.05			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichlorobenzene	ug/l	600			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloroethane	ug/l	5	50	210	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloropropane	ug/l	5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3,5-Trimethylbenzene	ug/l	60			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichloropropane	ug/l	370			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,4-Dichlorobenzene	ug/l	75			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1-Methylnaphthalene	ug/l	11			< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	< 10.0 UN2
2,2-Dichloropropane	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Butanone (MEK)	ug/l	5,600			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 UL1	< 25.0 U	< 25.0 U
2-Chlorotoluene	ug/l	240			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Methylnaphthalene	ug/l	36			< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
4-Chlorotoluene	ug/l	250			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Methyl-2-Pentanone	ug/l	6,300			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U
Acetone	ug/l	14,000			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Acrolein	ug/l	0.042			< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U
Acrylonitrile	ug/l	0.52			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Benzene	ug/l	5	28	120	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromobenzene	ug/l	62			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UL1	< 5.0 U	< 5.0 U
Bromochloromethane	ug/l	83			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromodichloromethane	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromoform	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromomethane	ug/l	7.5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Disulfide	ug/l	810			< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Carbon Tetrachloride	ug/l	5	6.5	28	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-11	ug/l	5,200			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-12	ug/l	200			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorobenzene	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorodibromomethane	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroethane	ug/l	21,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloromethane	ug/l	190			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	ug/l	70			< 5.0 U	< 5.0 U	23.0	6.3	< 5.0 U	64.3	< 5.0 U
cis-1,3-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Cymene (p-Isopropyltoluene)	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U

Table 3
Groundwater Sampling Analytical Results
Former Arvin Industries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location Sample Name Sample Date Sample Depth Lab SDG #	Unit	IDEM Tap Residential	IDEM Vapor Exposure Residential to GW	IDEM Vapor Exposure COM/IND to GW	SB-03 DUP-1 (050719) 5/7/2019 11-15 50224152	SB-03 SB-3(19-15) GW 5/7/2019 15-19 50224152	SB-04 SB-4(14-10) GW 5/7/2019 10-14 50224152	SB-05 SB-5(18-14) GW 5/7/2019 14-18 50224152	SB-06 SB-6(15-11) GW 5/7/2019 11-15 50224152	SB-07 SB-7 (17-13) GW 5/8/2019 13-17 50224339	SB-08 SB-8 (16-12) GW 5/8/2019 12-16 50224339
VOCs											
Dibromomethane	ug/l	8.3			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Dichloromethane	ug/l	5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Ethyl Methacrylate	ug/l	630			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Ethylbenzene	ug/l	700			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Hexachloro-1,3-butadiene	ug/l	1.4			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Hexane	ug/l	1,500			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Iodomethane	ug/l				< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Isopropylbenzene	ug/l	450			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Methyl N-Butyl Ketone (2-Hexanone)	ug/l	38			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U
Methyl-tert-butylether	ug/l	140			< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U
Naphthalene	ug/l	1.7	110	460	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U
n-Butylbenzene	ug/l	1,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	ug/l	660			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
sec-Butylbenzene	ug/l	2,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Styrene (Monomer)	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
tert-Butylbenzene	ug/l	690			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	ug/l	5	110	470	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Total Xylenes	ug/l	10,000			< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
trans-1,2-Dichloroethene	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,3-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,4-Dichloro-2-butene	ug/l	0.013			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Trichloroethene	ug/l	5	9.1	38	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl acetate	ug/l	410			< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U
Vinyl chloride	ug/l	2	2.1	35	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	24.7	< 2.0 U

All results compared to the Indiana Department of Environmental Management (IDEM), March 9, 2019.

Table 6. <http://www.in.gov/idem/landquality/2395.htm>.

Bold - Result exceeds the IDEM Residential Tap Water screening levels.

Shaded - Result exceeds the IDEM Residential Vapor Exposure to Groundwater screening level.

Italics - Result exceeds the IDEM Commercial/Industrial Vapor Exposure to Groundwater screening level.

< RL - Result not detected above the Reporting Limit.

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

N2 - Lab does not hold NELAC/TNI accreditation for this parameter but other certifications may apply. List of certifications is available upon request

ug/l - Micrograms per liter

Table 3
Groundwater Sampling Analytical Results
Former Arvin Industries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location Sample Name Sample Date Sample Depth Lab SDG #	Unit	IDEM Tap Residential	IDEM Vapor Exposure Residential to GW	IDEM Vapor Exposure COM/IND to GW	SB-09 SB-9 (16-12)GW 5/9/2019 12-16 50224516	SB-10 SB-10(16-12)GW 5/9/2019 12-16 50224516	SB-10 DUP-4(050919) 5/9/2019 12-16 50224516	SB-11 SB-11 (13-9) GW 5/10/2019 9-13 50224684	SB-11 SB-11 (17-13) GW 5/10/2019 13-17 50224684	SB-11 SB-11 (21-17) GW 5/10/2019 17-21 50224684	SB-12 SB-12 (10-6) GW 5/10/2019 6-10 50224684
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	5.7			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,1-Trichloroethane	ug/l	200	13,000	54,000	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2,2-Tetrachloroethane	ug/l	0.76	72	310	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2-Trichloroethane	ug/l	5	11	46	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	ug/l	28	130	550	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	ug/l	7	300	1,300	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichlorobenzene	ug/l	7			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichloropropane	ug/l	0.0075			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,4-Trichlorobenzene	ug/l	70			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,4-Trimethylbenzene	ug/l	56			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromoethane	ug/l	0.05			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichlorobenzene	ug/l	600			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloroethane	ug/l	5	50	210	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloropropane	ug/l	5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3,5-Trimethylbenzene	ug/l	60			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichloropropane	ug/l	370			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,4-Dichlorobenzene	ug/l	75			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1-Methylnaphthalene	ug/l	11			< 10.0 UN2	< 10.0 UN2	< 10.0 UN2	NA	NA	NA	NA
2,2-Dichloropropane	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Butanone (MEK)	ug/l	5,600			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U
2-Chlorotoluene	ug/l	240			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Methylnaphthalene	ug/l	36			< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA	NA
4-Chlorotoluene	ug/l	250			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Methyl-2-Pentanone	ug/l	6,300			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U
Acetone	ug/l	14,000			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Acrolein	ug/l	0.042			< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U
Acrylonitrile	ug/l	0.52			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Benzene	ug/l	5	28	120	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromobenzene	ug/l	62			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromochloromethane	ug/l	83			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromodichloromethane	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromoform	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromomethane	ug/l	7.5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Disulfide	ug/l	810			< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Carbon Tetrachloride	ug/l	5	6.5	28	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-11	ug/l	5,200			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-12	ug/l	200			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorobenzene	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorodibromomethane	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroethane	ug/l	21,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform	ug/l	80			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloromethane	ug/l	190			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	ug/l	70			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,3-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Cymene (p-Isopropyltoluene)	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U

Table 3
Groundwater Sampling Analytical Results
Former Arvin Industries Facility
Meritor, Inc.
1001 Hurricane Street
Franklin, IN

Location Sample Name Sample Date Sample Depth Lab SDG #	Unit	IDEM Tap Residential	IDEM Vapor Exposure Residential to GW	IDEM Vapor Exposure COM/IND to GW	SB-09 SB-9 (16-12)GW 5/9/2019 12-16 50224516	SB-10 SB-10(16-12)GW 5/9/2019 12-16 50224516	SB-10 DUP-4(050919) 5/9/2019 12-16 50224516	SB-11 SB-11 (13-9) GW 5/10/2019 9-13 50224684	SB-11 SB-11 (17-13) GW 5/10/2019 13-17 50224684	SB-11 SB-11 (21-17) GW 5/10/2019 17-21 50224684	SB-12 SB-12 (10-6) GW 5/10/2019 6-10 50224684
VOCs											
Dibromomethane	ug/l	8.3			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Dichloromethane	ug/l	5			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Ethyl Methacrylate	ug/l	630			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Ethylbenzene	ug/l	700			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Hexachloro-1,3-butadiene	ug/l	1.4			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Hexane	ug/l	1,500			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Iodomethane	ug/l				< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Isopropylbenzene	ug/l	450			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Methyl N-Butyl Ketone (2-Hexanone)	ug/l	38			< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U
Methyl-tert-butylether	ug/l	140			< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U
Naphthalene	ug/l	1.7	110	460	< 1.7 U	< 1.7 U	< 1.7 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Butylbenzene	ug/l	1,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	ug/l	660			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
sec-Butylbenzene	ug/l	2,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Styrene (Monomer)	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
tert-Butylbenzene	ug/l	690			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	ug/l	5	110	470	< 5.0 U	< 5.0 U	< 5.0 U	7.8	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1,000			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Total Xylenes	ug/l	10,000			< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
trans-1,2-Dichloroethene	ug/l	100			< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,3-Dichloropropene	ug/l				< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,4-Dichloro-2-butene	ug/l	0.013			< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Trichloroethene	ug/l	5	9.1	38	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl acetate	ug/l	410			< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U
Vinyl chloride	ug/l	2	2.1	35	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

All results compared to the Indiana Department of Environmental Management (IDEM), March 9, 2019.

Table 6. <http://www.in.gov/idem/landquality/2395.htm>.

Bold - Result exceeds the IDEM Residential Tap Water screening levels.

Shaded - Result exceeds the IDEM Residential Vapor Exposure to Groundwater screening level.

Italics - Result exceeds the IDEM Commercial/Industrial Vapor Exposure to Groundwater screening level.

< RL - Result not detected above the Reporting Limit.

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

N2 - Lab does not hold NELAC/TNI accreditation for this parameter but other certifications may apply. List of certifications is available upon request

ug/l - Micrograms per liter

Table 3
 Groundwater Sampling Analytical Results
 Former Arvin Industries Facility
 Meritor, Inc.
 1001 Hurricane Street
 Franklin, IN

Location Sample Name Sample Date Sample Depth Lab SDG #	Unit	IDEM Tap Residential	IDEM Vapor Exposure Residential to GW	IDEM Vapor Exposure COM/IND to GW	SB-12 SB-12 (17-13) GW 5/10/2019 13-17 50224684	SB-12 SB-12 (24-20) GW 5/10/2019 20-24 50224684
VOCs						
1,1,1,2-Tetrachloroethane	ug/l	5.7			< 5.0 U	< 5.0 U
1,1,1-Trichloroethane	ug/l	200	13,000	54,000	< 5.0 U	< 5.0 U
1,1,2,2-Tetrachloroethane	ug/l	0.76	72	310	< 5.0 U	< 5.0 U
1,1,2-Trichloroethane	ug/l	5	11	46	< 5.0 U	< 5.0 U
1,1-Dichloroethane	ug/l	28	130	550	< 5.0 U	< 5.0 U
1,1-Dichloroethene	ug/l	7	300	1,300	< 5.0 U	< 5.0 U
1,1-Dichloropropene	ug/l				< 5.0 U	< 5.0 U
1,2,3-Trichlorobenzene	ug/l	7			< 5.0 U	< 5.0 U
1,2,3-Trichloropropane	ug/l	0.0075			< 5.0 U	< 5.0 U
1,2,4-Trichlorobenzene	ug/l	70			< 5.0 U	< 5.0 U
1,2,4-Trimethylbenzene	ug/l	56			< 5.0 U	< 5.0 U
1,2-Dibromoethane	ug/l	0.05			< 5.0 U	< 5.0 U
1,2-Dichlorobenzene	ug/l	600			< 5.0 U	< 5.0 U
1,2-Dichloroethane	ug/l	5	50	210	< 5.0 U	< 5.0 U
1,2-Dichloropropane	ug/l	5			< 5.0 U	< 5.0 U
1,3,5-Trimethylbenzene	ug/l	60			< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	ug/l				< 5.0 U	< 5.0 U
1,3-Dichloropropane	ug/l	370			< 5.0 U	< 5.0 U
1,4-Dichlorobenzene	ug/l	75			< 5.0 U	< 5.0 U
1-Methylnaphthalene	ug/l	11			NA	NA
2,2-Dichloropropane	ug/l				< 5.0 U	< 5.0 U
2-Butanone (MEK)	ug/l	5,600			< 25.0 U	< 25.0 U
2-Chlorotoluene	ug/l	240			< 5.0 U	< 5.0 U
2-Methylnaphthalene	ug/l	36			NA	NA
4-Chlorotoluene	ug/l	250			< 5.0 U	< 5.0 U
4-Methyl-2-Pentanone	ug/l	6,300			< 25.0 U	< 25.0 U
Acetone	ug/l	14,000			< 100 U	< 100 U
Acrolein	ug/l	0.042			< 50.0 U	< 50.0 U
Acrylonitrile	ug/l	0.52			< 100 U	< 100 U
Benzene	ug/l	5	28	120	< 5.0 U	< 5.0 U
Bromobenzene	ug/l	62			< 5.0 U	< 5.0 U
Bromochloromethane	ug/l	83			< 5.0 U	< 5.0 U
Bromodichloromethane	ug/l	80			< 5.0 U	< 5.0 U
Bromoform	ug/l	80			< 5.0 U	< 5.0 U
Bromomethane	ug/l	7.5			< 5.0 U	< 5.0 U
Carbon Disulfide	ug/l	810			< 10.0 U	< 10.0 U
Carbon Tetrachloride	ug/l	5	6.5	28	< 5.0 U	< 5.0 U
CFC-11	ug/l	5,200			< 5.0 U	< 5.0 U
CFC-12	ug/l	200			< 5.0 U	< 5.0 U
Chlorobenzene	ug/l	100			< 5.0 U	< 5.0 U
Chlorodibromomethane	ug/l	80			< 5.0 U	< 5.0 U
Chloroethane	ug/l	21,000			< 5.0 U	< 5.0 U
Chloroform	ug/l	80			< 5.0 U	< 5.0 U
Chloromethane	ug/l	190			< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	ug/l	70			< 5.0 U	< 5.0 U
cis-1,3-Dichloropropene	ug/l				< 5.0 U	< 5.0 U
Cymene (p-Isopropyltoluene)	ug/l				< 5.0 U	< 5.0 U

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Location Sample Name Sample Date Sample Depth Lab SDG #	Unit	IDEM Tap Residential	IDEM Vapor Exposure Residential to GW	IDEM Vapor Exposure COM/IND to GW	SB-12 SB-12 (17-13) GW 5/10/2019 13-17 50224684	SB-12 SB-12 (24-20) GW 5/10/2019 20-24 50224684
VOCs						
Dibromomethane	ug/l	8.3			< 5.0 U	< 5.0 U
Dichloromethane	ug/l	5			< 5.0 U	< 5.0 U
Ethyl Methacrylate	ug/l	630			< 100 U	< 100 U
Ethylbenzene	ug/l	700			< 5.0 U	< 5.0 U
Hexachloro-1,3-butadiene	ug/l	1.4			< 5.0 U	< 5.0 U
Hexane	ug/l	1,500			< 5.0 U	< 5.0 U
Iodomethane	ug/l				< 10.0 U	< 10.0 U
Isopropylbenzene	ug/l	450			< 5.0 U	< 5.0 U
Methyl N-Butyl Ketone (2-Hexanone)	ug/l	38			< 25.0 U	< 25.0 U
Methyl-tert-butylether	ug/l	140			< 4.0 U	< 4.0 U
Naphthalene	ug/l	1.7	110	460	< 5.0 U	< 5.0 U
n-Butylbenzene	ug/l	1,000			< 5.0 U	< 5.0 U
n-Propylbenzene	ug/l	660			< 5.0 U	< 5.0 U
sec-Butylbenzene	ug/l	2,000			< 5.0 U	< 5.0 U
Styrene (Monomer)	ug/l	100			< 5.0 U	< 5.0 U
tert-Butylbenzene	ug/l	690			< 5.0 U	< 5.0 U
Tetrachloroethene	ug/l	5	110	470	< 5.0 U	< 5.0 U
Toluene	ug/l	1,000			< 5.0 U	< 5.0 U
Total Xylenes	ug/l	10,000			< 10.0 U	< 10.0 U
trans-1,2-Dichloroethene	ug/l	100			< 5.0 U	< 5.0 U
trans-1,3-Dichloropropene	ug/l				< 5.0 U	< 5.0 U
trans-1,4-Dichloro-2-butene	ug/l	0.013			< 100 U	< 100 U
Trichloroethene	ug/l	5	9.1	38	< 5.0 U	< 5.0 U
Vinyl acetate	ug/l	410			< 50.0 U	< 50.0 U
Vinyl chloride	ug/l	2	2.1	35	< 2.0 U	< 2.0 U

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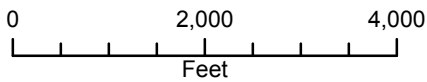
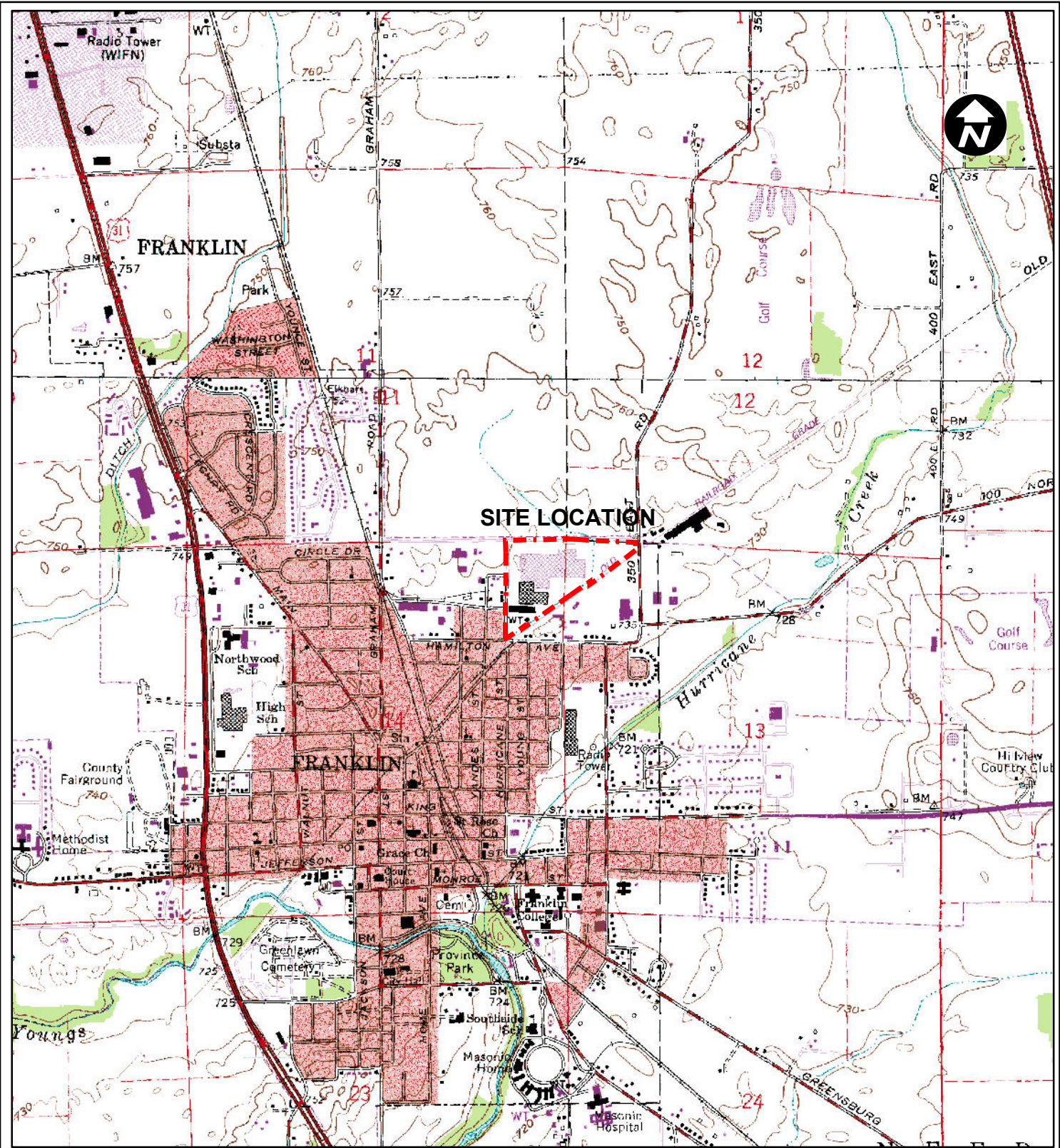
U - Indicates the compound was analyzed for, but not detected.

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FIGURES



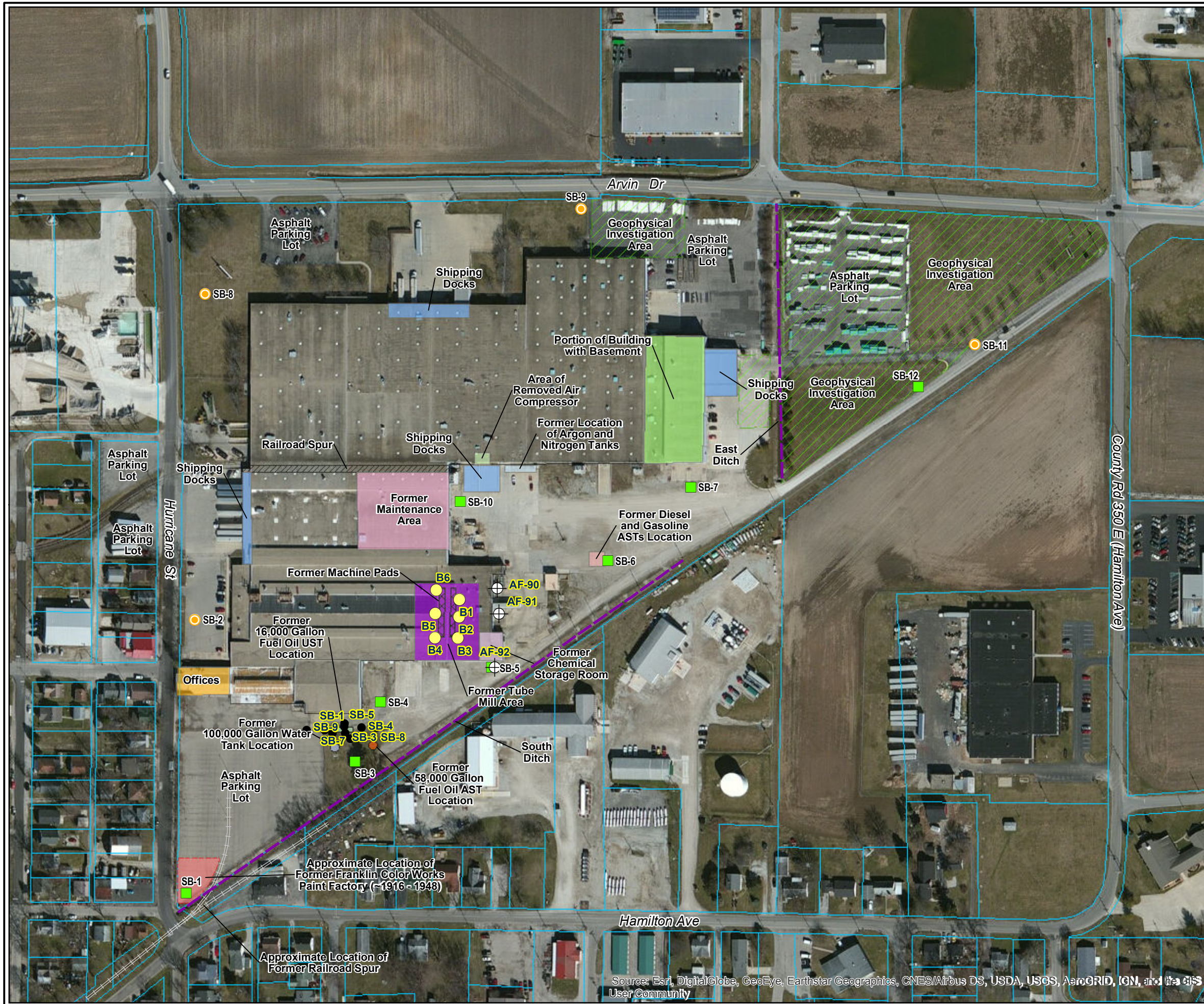


FORMER ARVIN MERITOR EXHAUST SYSTEMS
1001 HURRICANE STREET, FRANKLIN, INDIANA








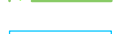
Site Location Map

	Design & Consultancy for natural and built assets	FIGURE
		1

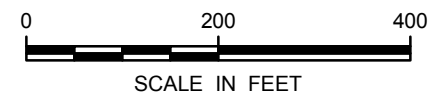
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LEGEND

-  GEOPROBE BORING IEGS 1998
-  HAND BORING SEICO
-  SOIL BORING GERAGHTY & MILLER 1992
-  SOIL BORING LOCATION FOR VAP GROUNDWATER SAMPLING
-  SOIL BORING LOCATION FOR VAP GROUNDWATER AND SHALLOW SOIL SAMPLING
-  GEOPHYSICAL INVESTIGATION AREA
-  JOHNSON COUNTY PARCELS
-  EAST AND SOUTH DITCH

AST - ABOVEGROUND STORAGE TANK
 UST - UNDERGROUND STORAGE TANK



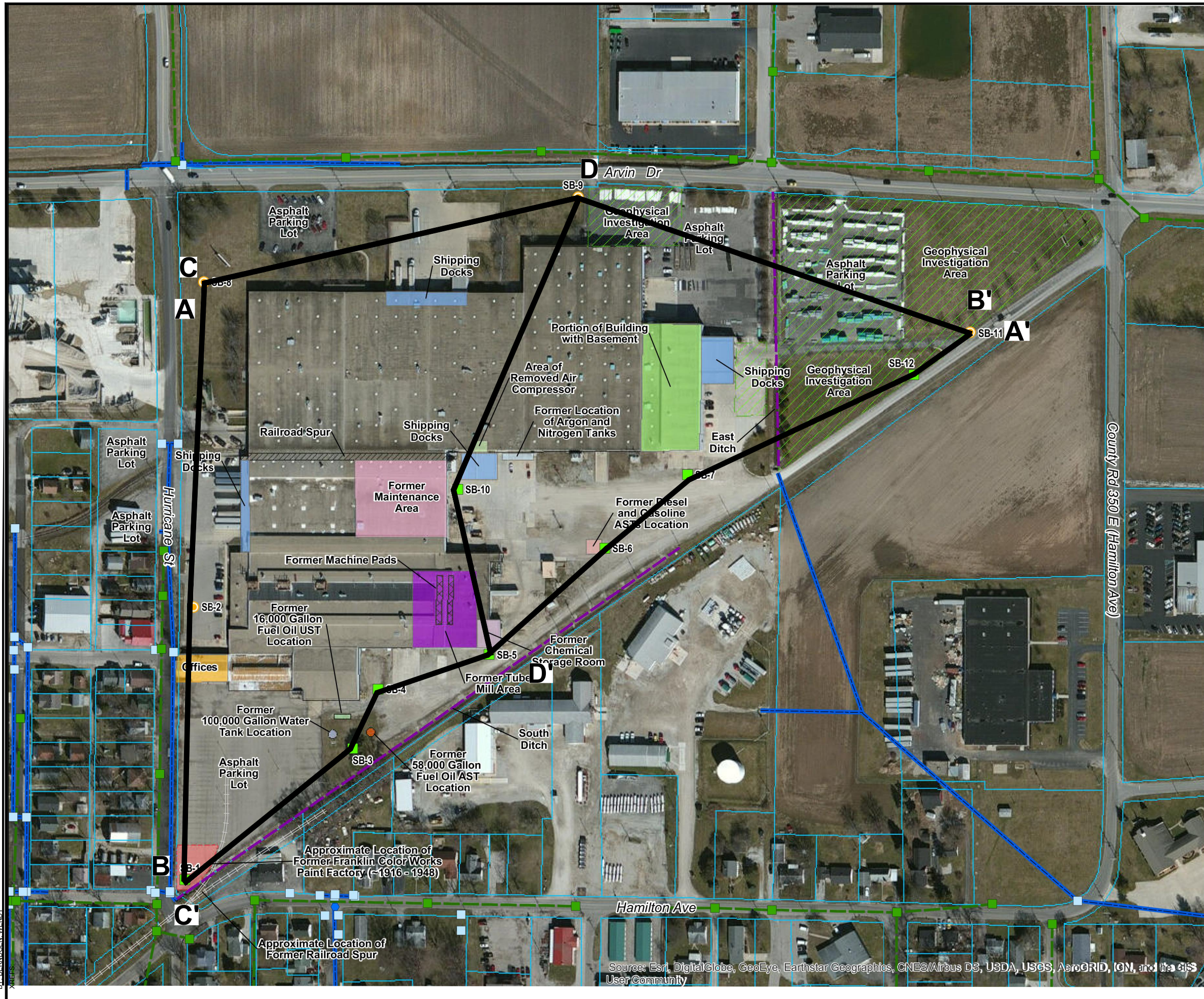
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FORMER ARVIN MERITOR EXHAUST SYSTEMS
 1001 HURRICANE STREET, FRANKLIN, INDIANA

Initial Site Investigation Activities Map

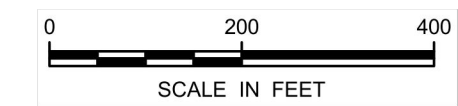
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 BY: BERNDIGEN, WENDY



- LEGEND**
- SOIL BORING LOCATION FOR VAP GROUNDWATER SAMPLING
 - SOIL BORING LOCATION FOR VAP GROUNDWATER AND SHALLOW SOIL SAMPLING
 - GEOPHYSICAL INVESTIGATION AREA
 - JOHNSON COUNTY PARCELS
 - EAST AND SOUTH DITCH
 - Sanitary Cleanouts
 - Sanitary Mains
 - Storm Inlets
 - Storm Manholes
 - Storm Mains

AST - ABOVEGROUND STORAGE TANK
 UST - UNDERGROUND STORAGE TANK



PROJECTION: NAD 1983 STATEPLANE INDIANA EAST FIPS 1301 FEET
 AERIAL SOURCE: ESRI ONLINE IMAGERY.

MERITOR
 FORMER ARVIN INDUSTRIES FACILITY
 FRANKLIN, INDIANA

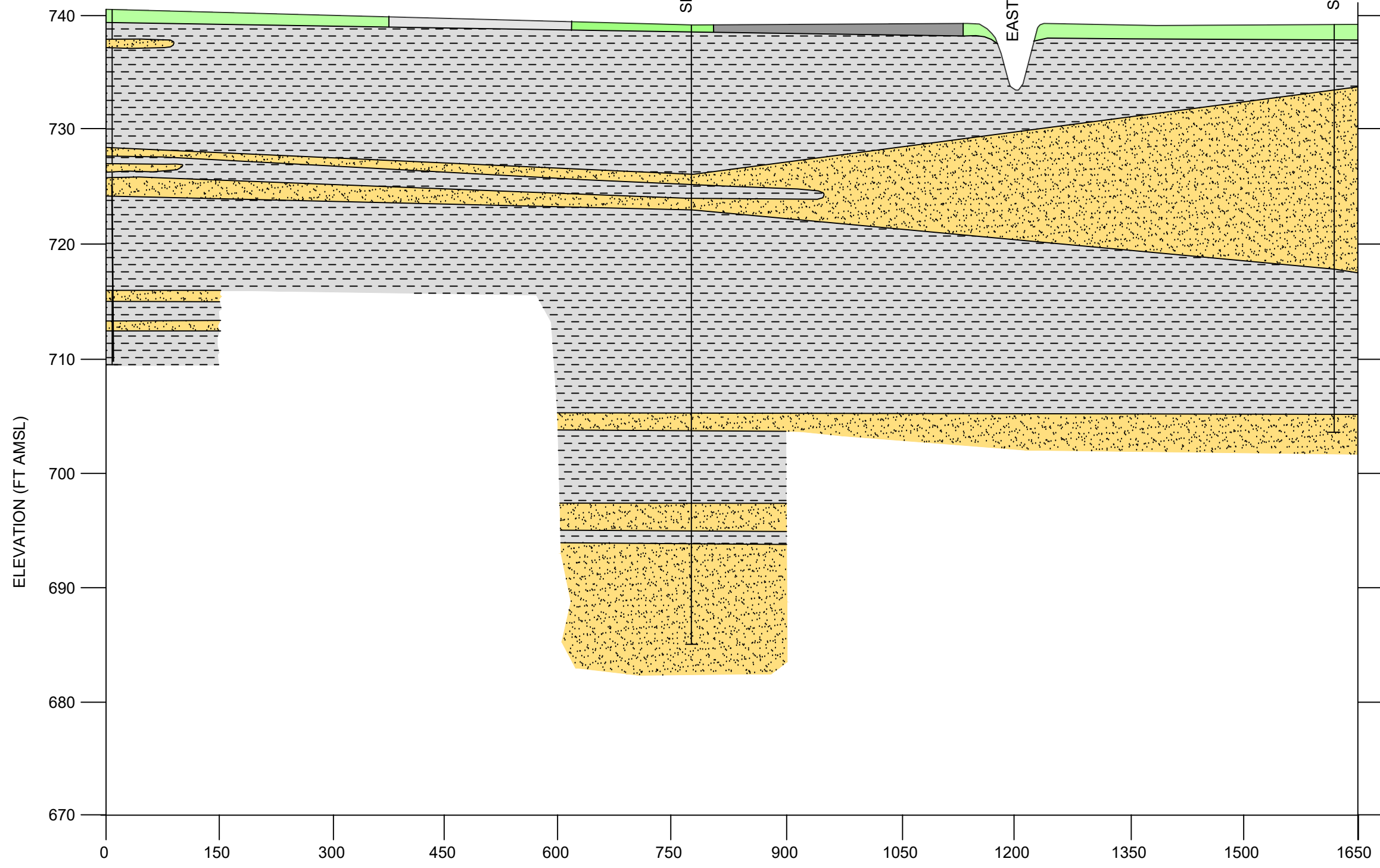
**CROSS SECTION TRANSECT
 REFERENCE MAP**

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

CITY: (COLUMBUS, OH) DIV: (GROUP: (MIDV) DB: (R: SMITH) LD: (Opt) PIC: (Opt) PM: (J. CULPEPPER) TM: (Opt) L: YR: (Opt) ON: (Off) REF: C:\BIM\OneDrive - ARCADIS\BIM_360\Docs\MERITOR\INCFRANKLIN\INDIANA\2019\IN001342\0001\01.dwg LAYOUT: A-A' SAVED: 5/20/2019 12:51 PM ACADVER: 23.05 (LMS TECH) PAGES: 23 PLOT: 5/20/2019 10:28 AM BY: BERNDGEN, WENDY

A
WEST

A'
EAST

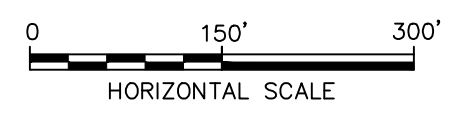
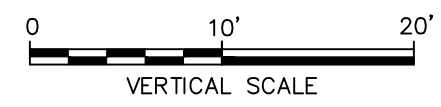


SB-9 — WELL/BORING ID
 — GROUND SURFACE
 — BORING/WELL CASING

- CONCRETE
- ASPHALT
- GRASS
- SAND
- CLAY

ELEVATION (FT AMSL)

ELEVATION (FT AMSL)



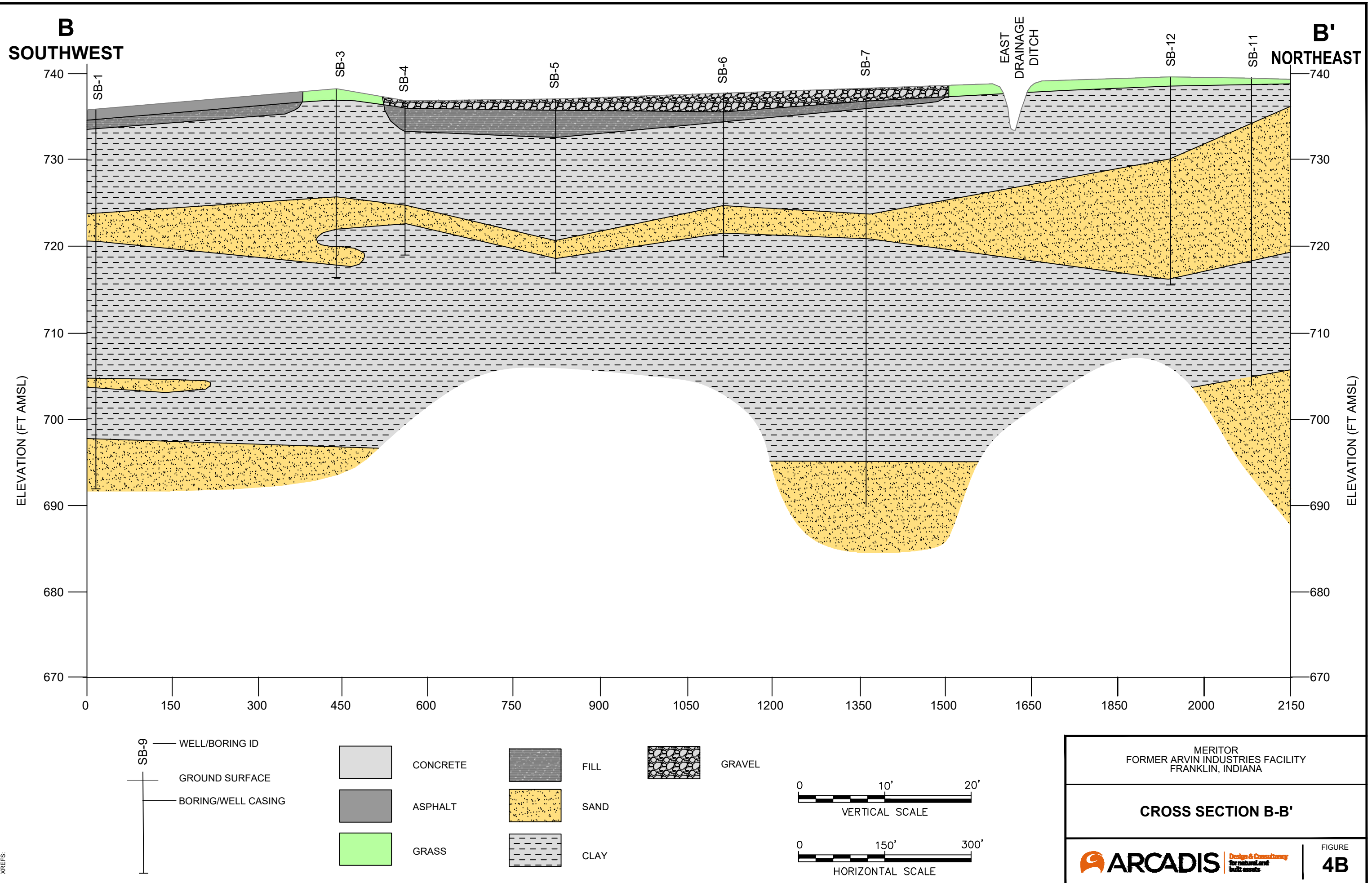
MERITOR
FORMER ARVIN INDUSTRIES FACILITY
FRANKLIN, INDIANA

CROSS SECTION A-A'

ARCADIS | *Design & Consultancy*
for natural and built assets

FIGURE
4A

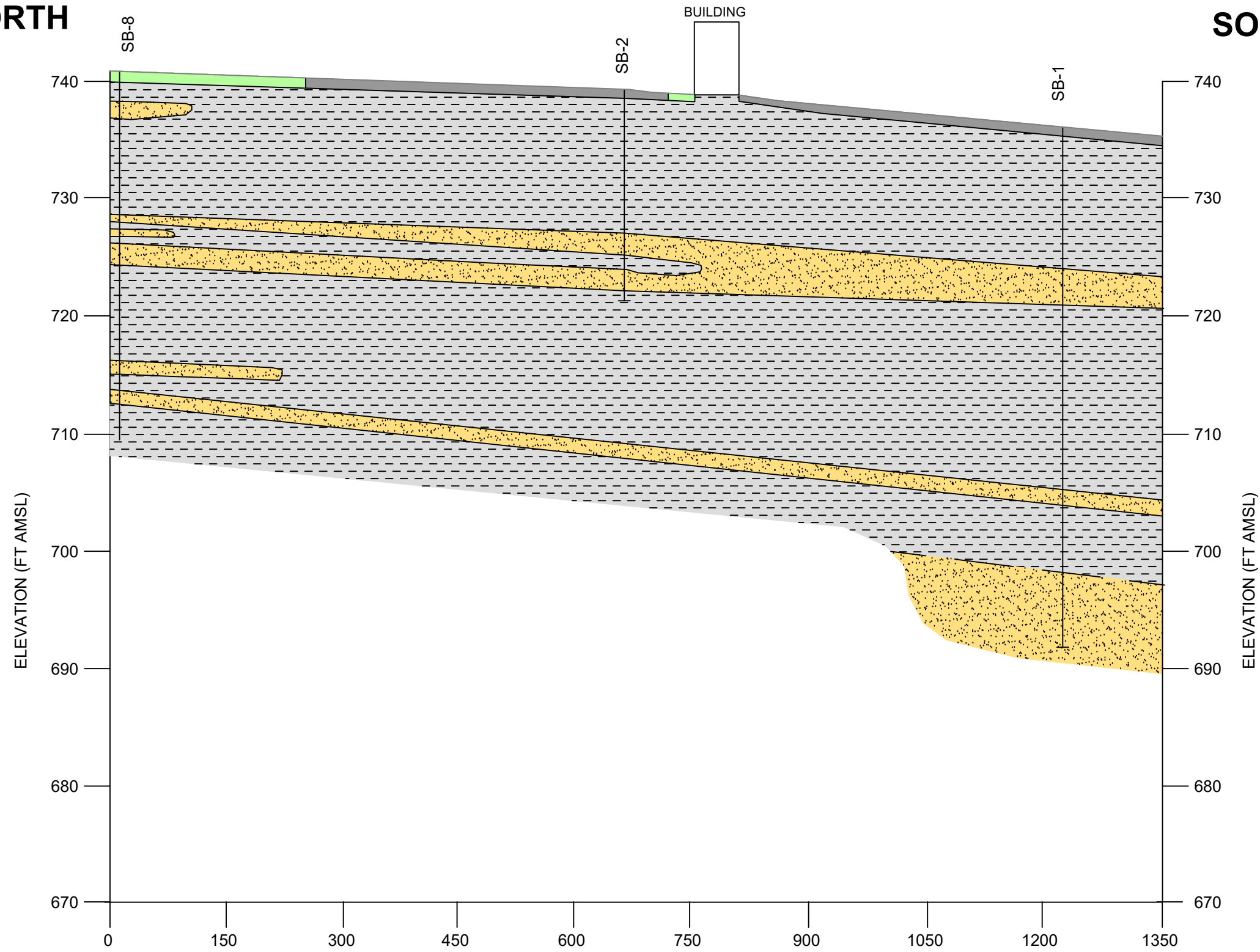
CITY: (COLUMBUS, OH) DIV: (GROUP: (MIDV) DB: (R: SMITH) LD: (Opt) PIC: (Opt) PM: (J. CULPEPPER) TM: (Opt) L: YR: (Opt) AN: (Off) REF: C:\BIM\OneDrive - ARCADIS\BIM_360 Docs\MERITOR_INCFRANKLIN\INDIANA\2019\IND001342\0001\01.dwg LAYOUT: B-B' PLOTTED: 5/21/2019 10:28 AM BY: BERNDGEN, WENDY XREFS:



CITY:(COLUMBUS, OH) DIV:(GROUP:(MIDV) DB:(R, SMITH) LD:(Opt) PIC:(Opt) PM:(J, CULPEPPER) TM:(Opt) L,YR:(Opt)ON="REF" C:\BIM\OneDrive - ARCADIS\BIM\360 Docs\MERITOR\INCFRANKLIN\INDIANA\2019\IN001342\000101.dwg LAYOUT: C-C' XREFS:

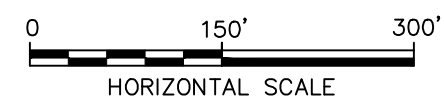
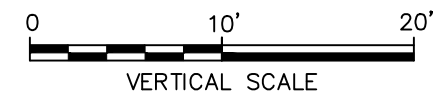
**C
NORTH**

**C'
SOUTH**



SB-9 — WELL/BORING ID
— GROUND SURFACE
— BORING/WELL CASING

ASPHALT
GRASS
SAND
CLAY



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FORMER ARVIN INDUSTRIES FACILITY
FRANKLIN, INDIANA

CROSS SECTION C-C'

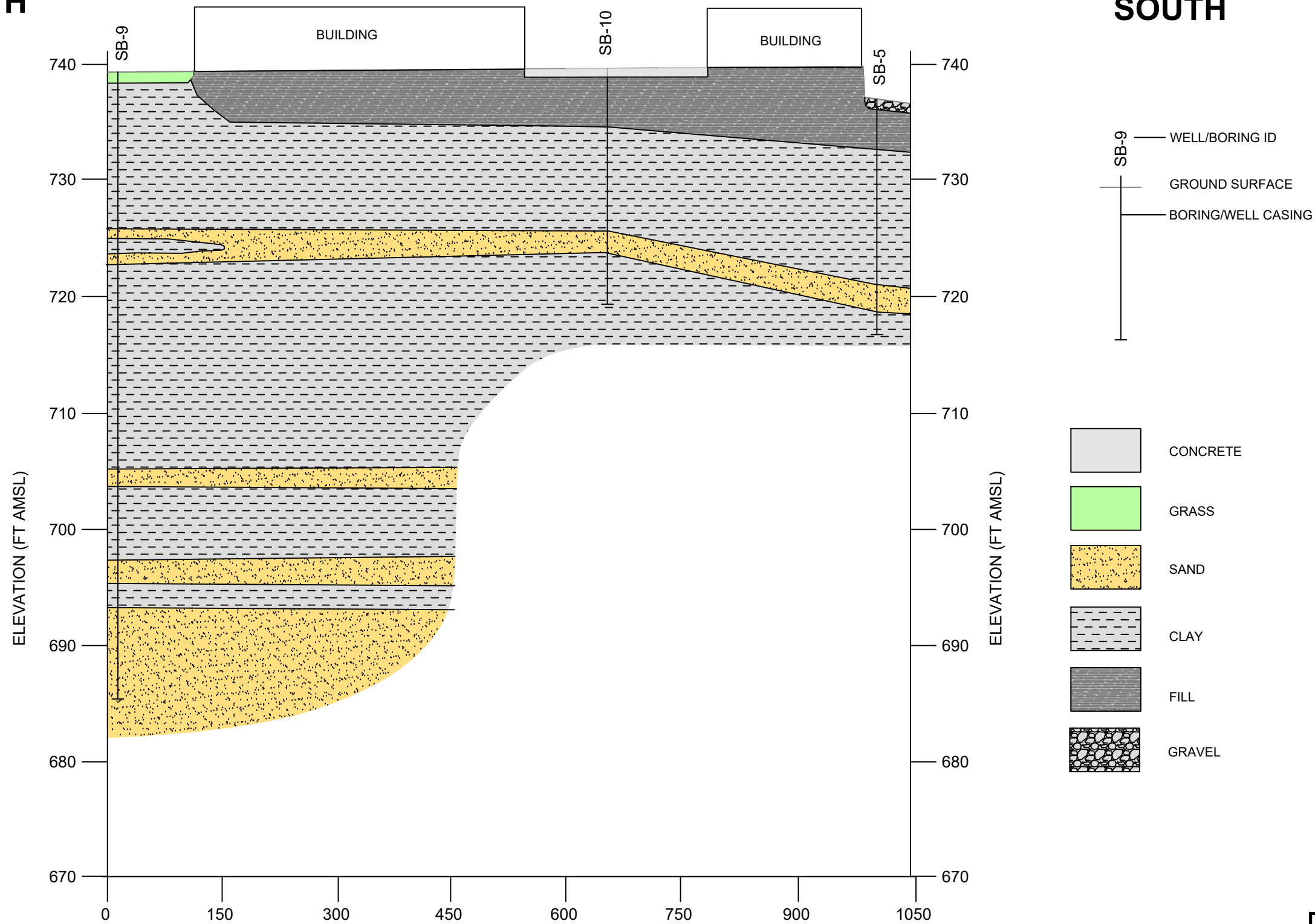
 **ARCADIS** | *Design & Consultancy
for natural and
built assets*

FIGURE
4C

CITY:(COLUMBUS, OH) DIV:(GROUP:(MIDV) DB:(R. SMITH) LD:(Opt) PIC:(Opt) PM:(J. CULPEPPER) TM:(Opt) L_YR:(Opt)A="OFF"="REF"
 C:\BIM\OneDrive - ARCADIS\BIM_360 Docs\MERITOR\INCFRANKLIN\INDIANA\2019\IN001342\0001342\0001V01.dwg LAYOUT: D-D' SAVED: 5/20/2019 12:51 PM ACADVER: 23.05 (LMS TECH) PAGESETUP: ... PLOTSTYLETABLE: ACAD.CTB PLOTTED: 5/21/2019 10:28 AM BY:
 BERNDGEN, WENDY XREFS:

D NORTH

D' SOUTH

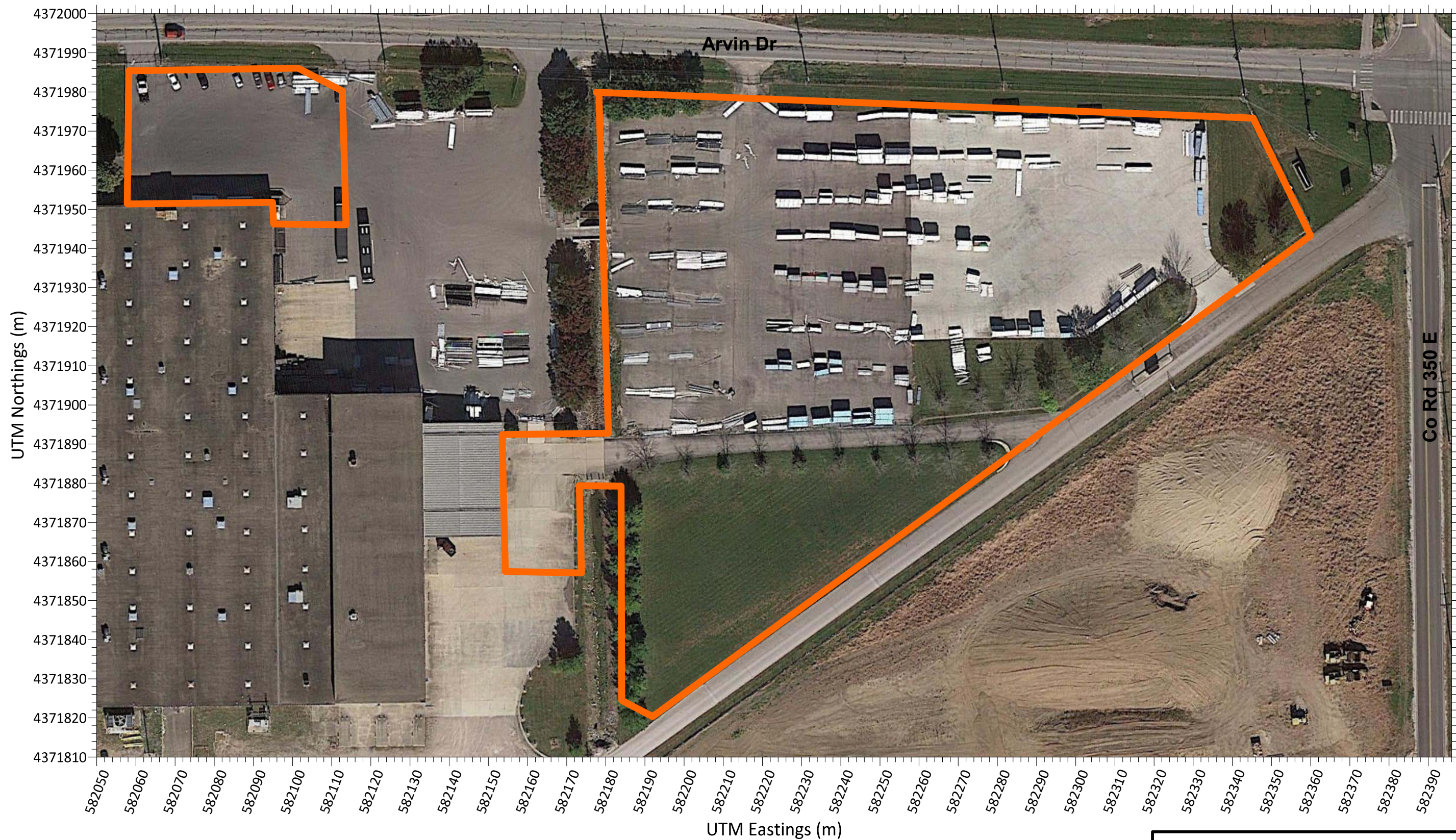


MERITOR
 FORMER ARVIN INDUSTRIES FACILITY
 FRANKLIN, INDIANA


CROSS SECTION D-D'

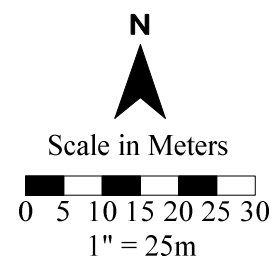
ARCADIS Design & Consultancy
for natural and built assets

FIGURE
4D



LEGEND

 Survey Area



GEOPHYSICAL SURVEY AREA
FORMER ARVIN MERITOR EXHAUST SYSTEMS
 1001 HURRICANE STREET, FRANKLIN, INDIANA


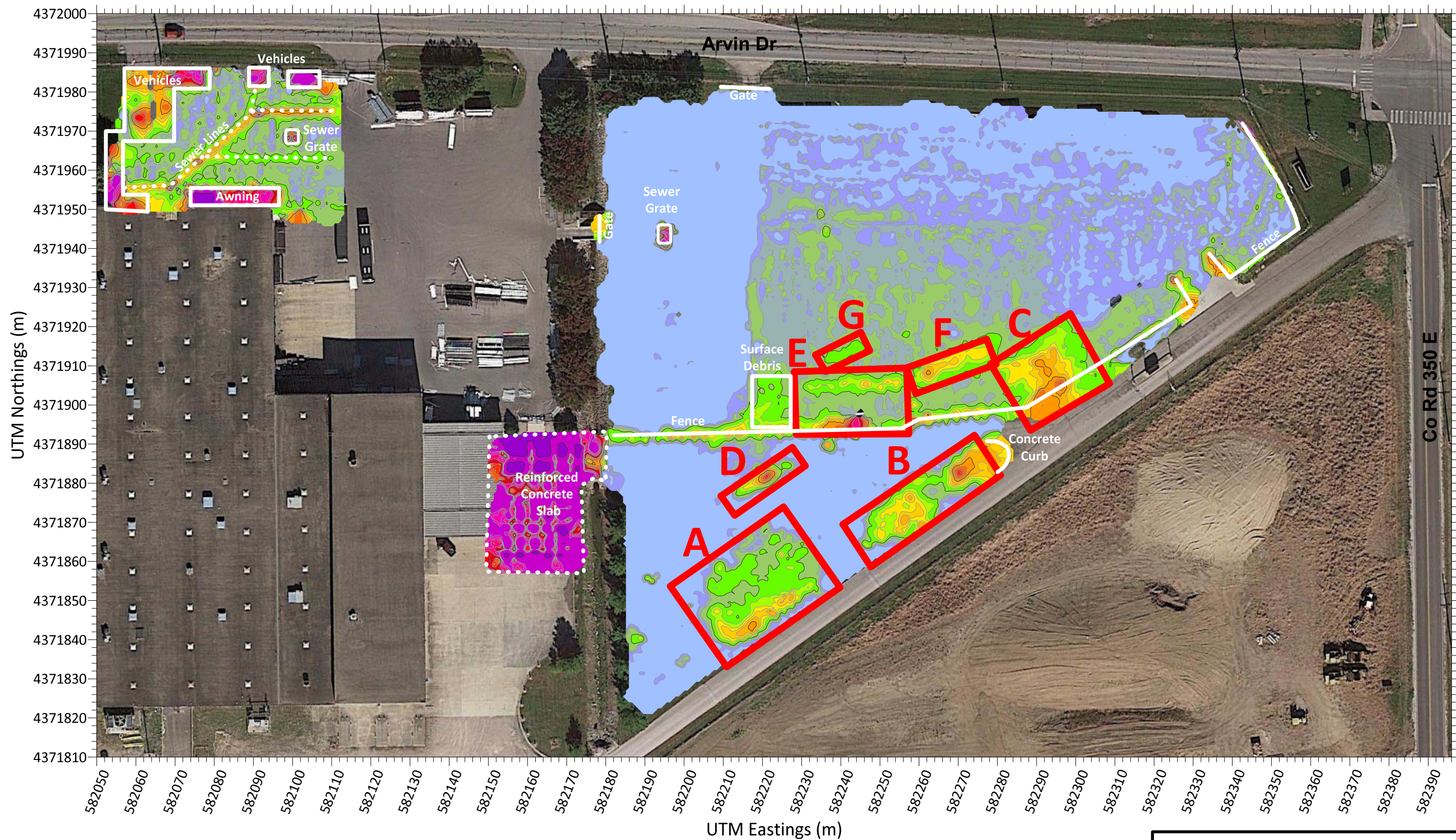



 **ARCADIS** Design & Consultancy
for natural and built assets

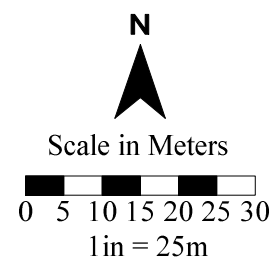
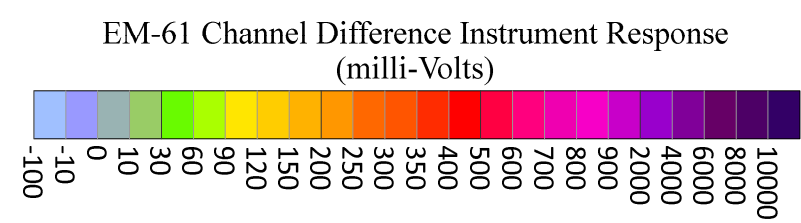
FIGURE
5

UTM Zone 16 Coordinates, WGS84 Datum



LEGEND

-  Known Surface Metal Object
-  Known Subsurface Metal Object
-  Anomalous Area



UTM Zone 16 Coordinates, WGS84 Datum

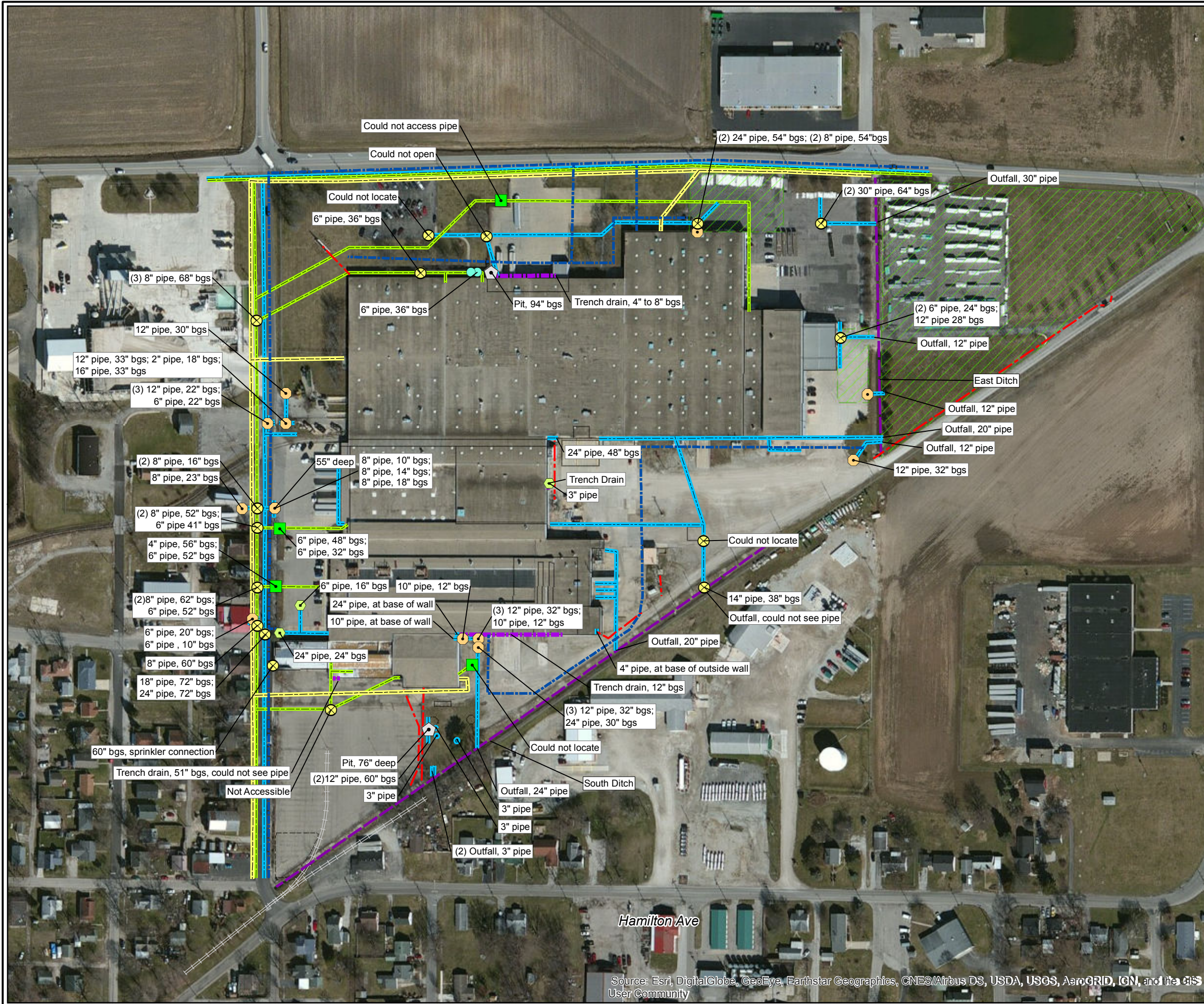
EM-61 CHANNEL DIFFERENCE MAP
FORMER ARVIN MERITOR EXHAUST SYSTEMS
 1001 HURRICANE STREET, FRANKLIN, INDIANA



Design & Consultancy
for natural and built assets

FIGURE
6

CITY: (KNOXVILLE) DIV: (GROUP: (ENV: (GIS) LD: (B: (AL: (TOM) PIC: (C: (R: (RUT: (EDGE) PM: (M: (FISHER: (KELLER) TM: (R: (WOODRUFF: (M: (GRILES: (J: (AKIN) PROJECT: IN001079
 PATH: Z: (GISPROJECTS: (ENVARVINMERITOR: (EXHAUSTSYSTEMS: (M: (X: (FIGURE: (DRAIN_SYSTEM: (MXD) SA: (VED: (6/10/2019) BY: (KGPETERS)



- LEGEND**
- Storm Grate
 - Lift Station
 - Manhole
 - Pit
 - Cleanout
 - Floor Drain
 - South and East Ditch
 - Electric
 - Gas
 - Trench Drain
 - Water
 - Sanitary Sewer
 - Storm Sewer



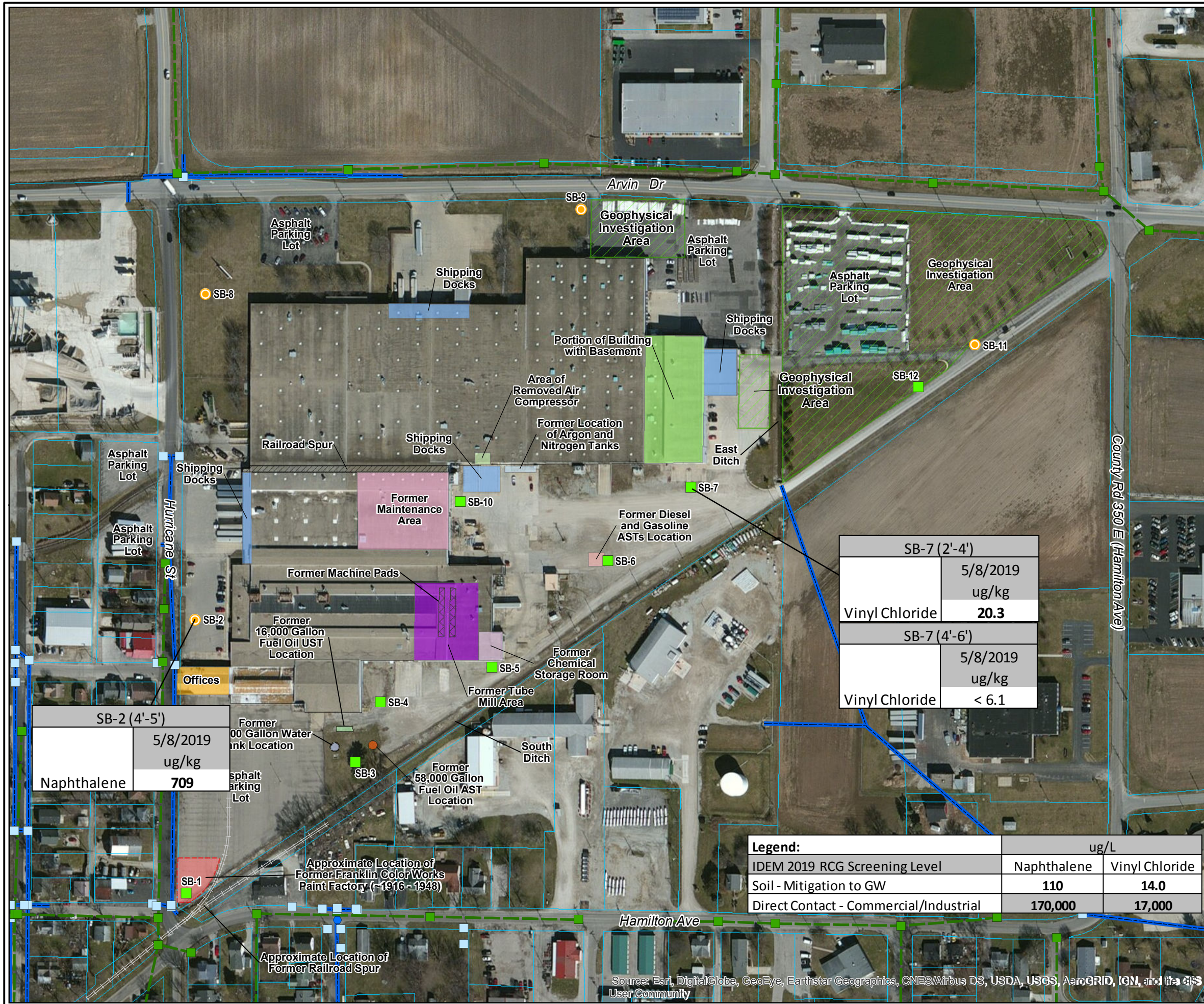
PROJECTION: NAD 1983 STATEPLANE INDIANA EAST FIPS 1301 FEET
 AERIAL SOURCE: ESRI ONLINE IMAGERY.

FORMER ARVIN MERITOR EXHAUST SYSTEMS
 1001 HURRICANE STREET, FRANKLIN, INDIANA

Preferential Pathway Site Assessment Map

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

CITY: (KNOXVILLE) DIV: (GROUP: (ENV/GIS) LD: (B: (ALTO) PIC: (C: (R: (RUTLEDGE) PM: (M: (FISHERKELLER) TM: (R: (WOODRUFF/M: (GRILES/J: (AKIN) PROJECT: IN001079
 PATH: Z: (GISPROJECTS: (ENVARVINMERITOREXHAUSTSYSTEMS) MXD FIGURES SOIL ANALYTICAL RESULTS.MXD SAVED: 6/20/2019 BY: KGPETERS



LEGEND

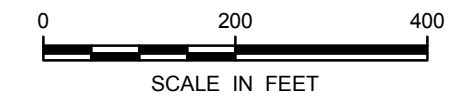
- SOIL BORING LOCATION FOR VAP GROUNDWATER SAMPLING
- SOIL BORING LOCATION FOR VAP GROUNDWATER AND SHALLOW SOIL SAMPLING
- GEOPHYSICAL INVESTIGATION AREA
- JOHNSON COUNTY PARCELS
- EAST AND SOUTH DITCH
- Sanitary Cleanouts
- Sanitary Mains
- Storm Inlets
- Storm Manholes
- Storm Mains

AST - ABOVEGROUND STORAGE TANK
 UST - UNDERGROUND STORAGE TANK
 RCG - REMEDIATION CLOSURE GUIDE
 ug/kg - MICROGRAMS PER KILOGRAM

SB-7 (2'-4')	
	5/8/2019
	ug/kg
Vinyl Chloride	20.3
SB-7 (4'-6')	
	5/8/2019
	ug/kg
Vinyl Chloride	< 6.1

SB-2 (4'-5')	
	5/8/2019
	ug/kg
Naphthalene	709

Legend:	ug/L	
IDEM 2019 RCG Screening Level	Naphthalene	Vinyl Chloride
Soil - Mitigation to GW	110	14.0
Direct Contact - Commercial/Industrial	170,000	17,000



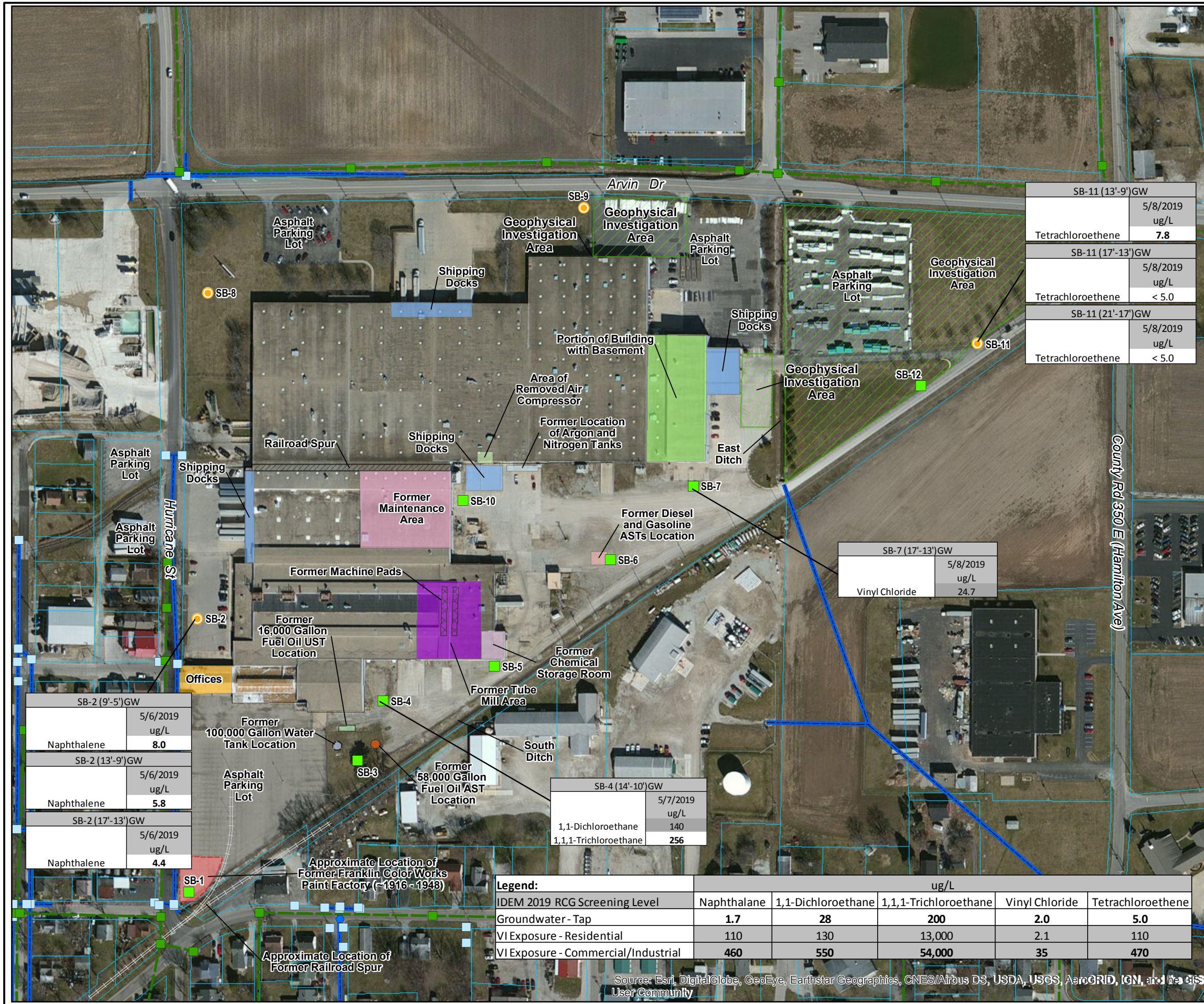
PROJECTION: NAD 1983 STATEPLANE INDIANA EAST FIPS 1301 FEET
 AERIAL SOURCE: ESRI ONLINE IMAGERY.

FORMER ARVIN MERITOR EXHAUST SYSTEMS
 1001 HURRICANE STREET, FRANKLIN, INDIANA

**Soil Analytical Results Above IDEM
 Screening Levels**

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

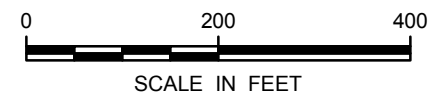
CITY: (KNOXVILLE) DIV: (GROUP: (ENV/GIS) LD: (B/ALTO) PIC: (C/R/RUTLEDGE) PM: (M/FISHERKELLER) TM: (R/WOODRUFF/M.GRILES/J.AKIN) PROJECT: IN001079
 PATH: Z:\GIS\PROJECTS_ENV\ARVIN\MERITOR\EXHAUSTSYSTEMS\MXD\FIGURE6 GROUNDWATER ANALYTICAL RESULTS.MXD SAVER: 6/26/2019 BY: KGPETERS



LEGEND

- SOIL BORING LOCATION FOR VAP GROUNDWATER SAMPLING
- SOIL BORING LOCATION FOR VAP GROUNDWATER AND SHALLOW SOIL SAMPLING
- GEOPHYSICAL INVESTIGATION AREA
- JOHNSON COUNTY PARCELS
- EAST AND SOUTH DITCH
- Sanitary Cleanouts
- Sanitary Mains
- Storm Inlets
- Storm Manholes
- Storm Mains

AST - ABOVEGROUND STORAGE TANK
 UST - UNDERGROUND STORAGE TANK
 RCG - REMEDIATION CLOSURE GUIDE
 µg/kg - MICROGRAMS PER KILOGRAM



PROJECTION: NAD 1983 STATEPLANE INDIANA EAST FIPS 1301 FEET
 AERIAL SOURCE: ESRI ONLINE IMAGERY.

FORMER ARVIN MERITOR EXHAUST SYSTEMS
 1001 HURRICANE STREET, FRANKLIN, INDIANA

Groundwater Analytical Results Above IDEM Screening Levels

Legend:	µg/L				
IDEM 2019 RCG Screening Level	Naphthalene	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Tetrachloroethene
Groundwater - Tap	1.7	28	200	2.0	5.0
VI Exposure - Residential	110	130	13,000	2.1	110
VI Exposure - Commercial/Industrial	460	550	54,000	35	470

SB-2 (9'-5')GW	
Naphthalene	5/6/2019 ug/L 8.0
SB-2 (13'-9')GW	
Naphthalene	5/6/2019 ug/L 5.8
SB-2 (17'-13')GW	
Naphthalene	5/6/2019 ug/L 4.4

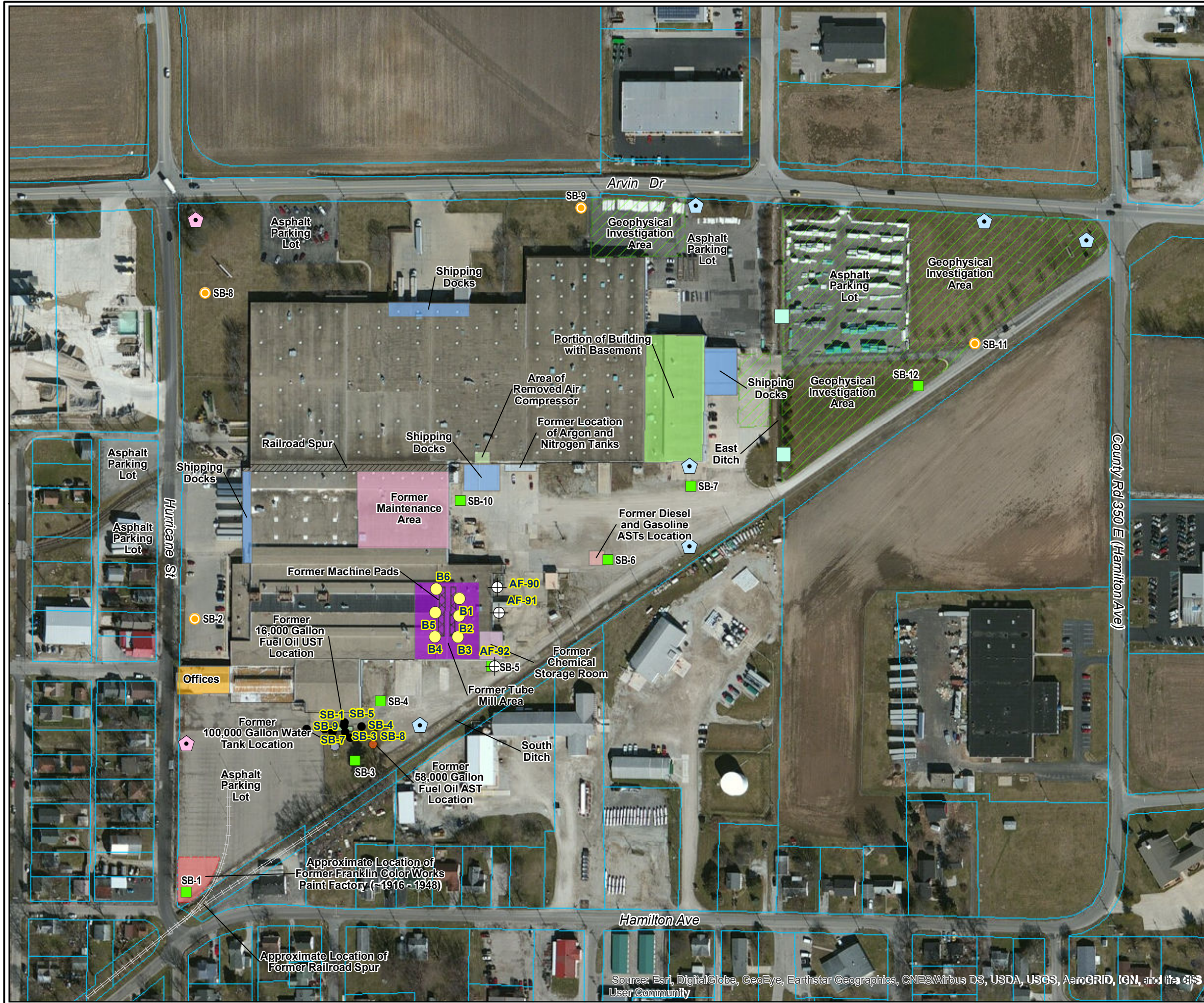
SB-4 (14'-10')GW	
1,1-Dichloroethane	5/7/2019 ug/L 140
1,1,1-Trichloroethane	256

SB-7 (17'-13')GW	
Vinyl Chloride	5/8/2019 ug/L 24.7

SB-11 (13'-9')GW	
Tetrachloroethene	5/8/2019 ug/L 7.8
SB-11 (17'-13')GW	
Tetrachloroethene	5/8/2019 ug/L < 5.0
SB-11 (21'-17')GW	
Tetrachloroethene	5/8/2019 ug/L < 5.0

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

CITY: (KNOXVILLE) DIV: (GROUP: (ENV/GIS) LD: (B/ALTO) PIC: (C/R/RUTLEDGE) PM: (M/FISHERKELLER) TM: (R/WOODRUFF/M.GRILES/J.AKIN) PROJECT: IN001079
 PATH: Z:\GIS\PROJECTS\ENVI\ARVIN\MERITOR\EXHAUSTSYSTEMS\FIGURES_PROPOSED_FURTHER_SITE_INVESTIGATION_ACTIVITIES.MXD SAVED: 6/12/2019 BY: KGPETERS



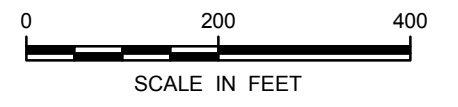
LEGEND

- GEOPROBE BORING IEGS 1998
- HAND BORING SEICO
- SOIL BORING GERAGHTY & MILLER 1992
- SOIL BORING LOCATION FOR VAP GROUNDWATER SAMPLING
- SOIL BORING LOCATION FOR VAP GROUNDWATER AND SHALLOW SOIL SAMPLING
- GEOPHYSICAL INVESTIGATION AREA
- JOHNSON COUNTY PARCELS
- EAST AND SOUTH DITCH

AST - ABOVEGROUND STORAGE TANK
 UST - UNDERGROUND STORAGE TANK

PROPOSED SAMPLING LOCATIONS

- PROPOSED SURFACE WATER SAMPLE LOCATION IN EAST DRAINAGE DITCH
- PROPOSED TEMPORARY PIEZOMETER FOR GROUNDWATER SAMPLE COLLECTION AND WATER TABLE ELEVATION MEASUREMENT
- PROPOSED TEMPORARY PIEZOMETER FOR WATER TABLE ELEVATION MEASUREMENT



PROJECTION: NAD 1983 STATEPLANE INDIANA EAST FIPS 1301 FEET
 AERIAL SOURCE: ESRI ONLINE IMAGERY.

FORMER ARVIN MERITOR EXHAUST SYSTEMS
 1001 HURRICANE STREET, FRANKLIN, INDIANA

Proposed Further Site Investigation Activities

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

APPENDIX A

ISI Laboratory Analytical Reports



May 14, 2019

Mr. Jon Akin
Arcadis U.S., Inc.
150 West Market Street
Suite 700
Indianapolis, IN 46204

RE: Project: IN001342.0001
Pace Project No.: 50224029

Dear Mr. Akin:

Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2019. 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



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: IN001342.0001

Pace Project No.: 50224029

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

Michigan Department of Environmental Quality, Laboratory
#9050

Ohio VAP Certification #: CL0065

Oklahoma Certification #: 2018-101

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IN001342.0001

Pace Project No.: 50224029

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50224029001	TB-1 (050619)	Water	05/06/19 08:00	05/07/19 07:45
50224029002	SB-01 (15-11) GW	Water	05/06/19 10:53	05/07/19 07:45
50224029003	SB-01 (11-7) GW	Water	05/06/19 11:18	05/07/19 07:45
50224029004	SB-2 (17-13) GW	Water	05/06/19 16:40	05/07/19 07:45
50224029005	SB-2 (13-9) GW	Water	05/06/19 17:08	05/07/19 07:45
50224029006	SB-2 (9-5) GW	Water	05/06/19 17:31	05/07/19 07:45
50224029007	SB-1 (0-2)	Solid	05/06/19 11:27	05/07/19 07:45
50224029008	SB-1 (2-4)	Solid	05/06/19 11:31	05/07/19 07:45
50224029009	SB-2 (5-4)	Solid	05/06/19 16:58	05/07/19 07:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: IN001342.0001

Pace Project No.: 50224029

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50224029001	TB-1 (050619)	EPA 5030/8260	KRM1	75
50224029002	SB-01 (15-11) GW	EPA 5030/8260	KRM1	75
50224029003	SB-01 (11-7) GW	EPA 5030/8260	KRM1	75
50224029004	SB-2 (17-13) GW	EPA 5030/8260	KRM1	75
50224029005	SB-2 (13-9) GW	EPA 5030/8260	KRM1	75
50224029006	SB-2 (9-5) GW	EPA 5030/8260	KRM1	75
50224029007	SB-1 (0-2)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224029008	SB-1 (2-4)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224029009	SB-2 (5-4)	EPA 8260	KRM1	75
		SM 2540G	RM1	1

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IN001342.0001

Pace Project No.: 50224029

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50224029004	SB-2 (17-13) GW					
EPA 5030/8260	n-Hexane	17.8	ug/L	5.0	05/09/19 05:38	
EPA 5030/8260	Naphthalene	4.4	ug/L	1.7	05/09/19 05:38	
EPA 5030/8260	n-Propylbenzene	8.9	ug/L	5.0	05/09/19 05:38	
50224029005	SB-2 (13-9) GW					
EPA 5030/8260	n-Hexane	22.1	ug/L	5.0	05/09/19 06:09	
EPA 5030/8260	Naphthalene	5.8	ug/L	1.7	05/09/19 06:09	
EPA 5030/8260	n-Propylbenzene	11.6	ug/L	5.0	05/09/19 06:09	
50224029006	SB-2 (9-5) GW					
EPA 5030/8260	n-Hexane	30.1	ug/L	5.0	05/09/19 06:41	
EPA 5030/8260	Isopropylbenzene (Cumene)	5.6	ug/L	5.0	05/09/19 06:41	
EPA 5030/8260	Naphthalene	8.0	ug/L	1.7	05/09/19 06:41	
EPA 5030/8260	n-Propylbenzene	14.3	ug/L	5.0	05/09/19 06:41	
50224029007	SB-1 (0-2)					
SM 2540G	Percent Moisture	18.8	%	0.10	05/13/19 09:27	
50224029008	SB-1 (2-4)					
SM 2540G	Percent Moisture	19.0	%	0.10	05/13/19 09:28	
50224029009	SB-2 (5-4)					
EPA 8260	n-Butylbenzene	265	ug/kg	252	05/09/19 06:57	
EPA 8260	Isopropylbenzene (Cumene)	255	ug/kg	252	05/09/19 06:57	
EPA 8260	1-Methylnaphthalene	515	ug/kg	504	05/09/19 06:57	N2
EPA 8260	2-Methylnaphthalene	665	ug/kg	504	05/09/19 06:57	
EPA 8260	Naphthalene	709	ug/kg	252	05/09/19 06:57	C0
EPA 8260	n-Propylbenzene	849	ug/kg	252	05/09/19 06:57	
SM 2540G	Percent Moisture	19.4	%	0.10	05/13/19 09:28	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: TB-1 (050619)	Lab ID: 50224029001	Collected: 05/06/19 08:00	Received: 05/07/19 07:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 04:02	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 04:02	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 04:02	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 04:02	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 04:02	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 04:02	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 04:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 04:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 04:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 04:02	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 04:02	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 04:02	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 04:02	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 04:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 04:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 04:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 04:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 04:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 04:02	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 04:02	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 04:02	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 04:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 04:02	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 04:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 04:02	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 04:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 04:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 04:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 04:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 04:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 04:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 04:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 04:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 04:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 04:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 04:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 04:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 04:02	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 04:02	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 04:02	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 04:02	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 04:02	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 04:02	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 04:02	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: TB-1 (050619)		Lab ID: 50224029001		Collected: 05/06/19 08:00	Received: 05/07/19 07:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 04:02	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 04:02	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 04:02	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 04:02	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 04:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 04:02	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 04:02	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 04:02	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 04:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 04:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 04:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 04:02	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 04:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 04:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 04:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 04:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 04:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 04:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 04:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 04:02	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 04:02	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 04:02	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 04:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	80-122	1		05/09/19 04:02	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	85-114	1		05/09/19 04:02	460-00-4	
Toluene-d8 (S)	95	%.	85-114	1		05/09/19 04:02	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-01 (15-11) GW	Lab ID: 50224029002	Collected: 05/06/19 10:53	Received: 05/07/19 07:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 04:34	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 04:34	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 04:34	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 04:34	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 04:34	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 04:34	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 04:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 04:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 04:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 04:34	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 04:34	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 04:34	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 04:34	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 04:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 04:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 04:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 04:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 04:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 04:34	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 04:34	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 04:34	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 04:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 04:34	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 04:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 04:34	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 04:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 04:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 04:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 04:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 04:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 04:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 04:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 04:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 04:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 04:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 04:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 04:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 04:34	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 04:34	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 04:34	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 04:34	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 04:34	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 04:34	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 04:34	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-01 (15-11) GW	Lab ID: 50224029002	Collected: 05/06/19 10:53	Received: 05/07/19 07:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 04:34	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 04:34	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 04:34	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 04:34	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 04:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 04:34	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 04:34	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 04:34	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 04:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 04:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 04:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 04:34	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 04:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 04:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 04:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 04:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 04:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 04:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 04:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 04:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 04:34	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 04:34	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 04:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 04:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	80-122	1		05/09/19 04:34	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	85-114	1		05/09/19 04:34	460-00-4	
Toluene-d8 (S)	94	%.	85-114	1		05/09/19 04:34	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-01 (11-7) GW	Lab ID: 50224029003	Collected: 05/06/19 11:18	Received: 05/07/19 07:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 05:06	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 05:06	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 05:06	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 05:06	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 05:06	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 05:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 05:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 05:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 05:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 05:06	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 05:06	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 05:06	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 05:06	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 05:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 05:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 05:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 05:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 05:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 05:06	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 05:06	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 05:06	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 05:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 05:06	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 05:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 05:06	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 05:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 05:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 05:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 05:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 05:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 05:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 05:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 05:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 05:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 05:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 05:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 05:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 05:06	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 05:06	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 05:06	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 05:06	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 05:06	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 05:06	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 05:06	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-01 (11-7) GW	Lab ID: 50224029003	Collected: 05/06/19 11:18	Received: 05/07/19 07:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 05:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 05:06	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 05:06	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 05:06	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 05:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 05:06	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 05:06	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 05:06	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 05:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 05:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 05:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 05:06	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 05:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 05:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 05:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 05:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 05:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 05:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 05:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 05:06	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 05:06	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 05:06	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 05:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	80-122	1		05/09/19 05:06	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	85-114	1		05/09/19 05:06	460-00-4	
Toluene-d8 (S)	93	%.	85-114	1		05/09/19 05:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-2 (17-13) GW **Lab ID: 50224029004** Collected: 05/06/19 16:40 Received: 05/07/19 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 05:38	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 05:38	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 05:38	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 05:38	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 05:38	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 05:38	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 05:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 05:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 05:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 05:38	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 05:38	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 05:38	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 05:38	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 05:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 05:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 05:38	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 05:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 05:38	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 05:38	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 05:38	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 05:38	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 05:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 05:38	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 05:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 05:38	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 05:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 05:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 05:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 05:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 05:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 05:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 05:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 05:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 05:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 05:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 05:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 05:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 05:38	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 05:38	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 05:38	87-68-3	
n-Hexane	17.8	ug/L	5.0	1		05/09/19 05:38	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 05:38	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 05:38	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 05:38	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-2 (17-13) GW	Lab ID: 50224029004	Collected: 05/06/19 16:40	Received: 05/07/19 07:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 05:38	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 05:38	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 05:38	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 05:38	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 05:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 05:38	1634-04-4	
Naphthalene	4.4	ug/L	1.7	1		05/09/19 05:38	91-20-3	
n-Propylbenzene	8.9	ug/L	5.0	1		05/09/19 05:38	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 05:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 05:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 05:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 05:38	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 05:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 05:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 05:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 05:38	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 05:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 05:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 05:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 05:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 05:38	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 05:38	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 05:38	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 05:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	80-122	1		05/09/19 05:38	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	85-114	1		05/09/19 05:38	460-00-4	
Toluene-d8 (S)	94	%.	85-114	1		05/09/19 05:38	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-2 (13-9) GW		Lab ID: 50224029005	Collected: 05/06/19 17:08	Received: 05/07/19 07:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 06:09	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 06:09	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 06:09	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 06:09	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 06:09	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 06:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 06:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 06:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 06:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 06:09	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:09	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:09	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:09	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 06:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 06:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 06:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 06:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 06:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 06:09	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:09	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:09	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 06:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 06:09	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 06:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 06:09	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 06:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 06:09	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 06:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 06:09	87-68-3	
n-Hexane	22.1	ug/L	5.0	1		05/09/19 06:09	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 06:09	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 06:09	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 06:09	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-2 (13-9) GW		Lab ID: 50224029005	Collected: 05/06/19 17:08	Received: 05/07/19 07:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 06:09	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 06:09	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:09	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:09	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 06:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 06:09	1634-04-4	
Naphthalene	5.8	ug/L	1.7	1		05/09/19 06:09	91-20-3	
n-Propylbenzene	11.6	ug/L	5.0	1		05/09/19 06:09	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 06:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 06:09	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 06:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 06:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 06:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 06:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:09	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 06:09	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 06:09	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 06:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	80-122	1		05/09/19 06:09	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	85-114	1		05/09/19 06:09	460-00-4	
Toluene-d8 (S)	94	%.	85-114	1		05/09/19 06:09	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-2 (9-5) GW	Lab ID: 50224029006	Collected: 05/06/19 17:31	Received: 05/07/19 07:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 06:41	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 06:41	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 06:41	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 06:41	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 06:41	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 06:41	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 06:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 06:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 06:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 06:41	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:41	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:41	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:41	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 06:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 06:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 06:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 06:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 06:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 06:41	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:41	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:41	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 06:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 06:41	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 06:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 06:41	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 06:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 06:41	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 06:41	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 06:41	87-68-3	
n-Hexane	30.1	ug/L	5.0	1		05/09/19 06:41	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 06:41	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 06:41	74-88-4	
Isopropylbenzene (Cumene)	5.6	ug/L	5.0	1		05/09/19 06:41	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-2 (9-5) GW		Lab ID: 50224029006	Collected: 05/06/19 17:31	Received: 05/07/19 07:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 06:41	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 06:41	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:41	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:41	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 06:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 06:41	1634-04-4	
Naphthalene	8.0	ug/L	1.7	1		05/09/19 06:41	91-20-3	
n-Propylbenzene	14.3	ug/L	5.0	1		05/09/19 06:41	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 06:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 06:41	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 06:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 06:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 06:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 06:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:41	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 06:41	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 06:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 06:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	80-122	1		05/09/19 06:41	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	85-114	1		05/09/19 06:41	460-00-4	
Toluene-d8 (S)	97	%.	85-114	1		05/09/19 06:41	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-1 (0-2) **Lab ID: 50224029007** Collected: 05/06/19 11:27 Received: 05/07/19 07:45 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	88.1	1		05/08/19 13:40	67-64-1	L1
Acrolein	ND	ug/kg	88.1	1		05/08/19 13:40	107-02-8	
Acrylonitrile	ND	ug/kg	88.1	1		05/08/19 13:40	107-13-1	
Benzene	ND	ug/kg	4.4	1		05/08/19 13:40	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		05/08/19 13:40	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		05/08/19 13:40	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		05/08/19 13:40	75-27-4	
Bromoform	ND	ug/kg	4.4	1		05/08/19 13:40	75-25-2	
Bromomethane	ND	ug/kg	4.4	1		05/08/19 13:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.0	1		05/08/19 13:40	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		05/08/19 13:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		05/08/19 13:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		05/08/19 13:40	98-06-6	
Carbon disulfide	ND	ug/kg	8.8	1		05/08/19 13:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1		05/08/19 13:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		05/08/19 13:40	108-90-7	
Chloroethane	ND	ug/kg	4.4	1		05/08/19 13:40	75-00-3	
Chloroform	ND	ug/kg	4.4	1		05/08/19 13:40	67-66-3	
Chloromethane	ND	ug/kg	4.4	1		05/08/19 13:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		05/08/19 13:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		05/08/19 13:40	106-43-4	
Dibromochloromethane	ND	ug/kg	4.4	1		05/08/19 13:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		05/08/19 13:40	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		05/08/19 13:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		05/08/19 13:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		05/08/19 13:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		05/08/19 13:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	88.1	1		05/08/19 13:40	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		05/08/19 13:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		05/08/19 13:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		05/08/19 13:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		05/08/19 13:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		05/08/19 13:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		05/08/19 13:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		05/08/19 13:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		05/08/19 13:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		05/08/19 13:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		05/08/19 13:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		05/08/19 13:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		05/08/19 13:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		05/08/19 13:40	100-41-4	
Ethyl methacrylate	ND	ug/kg	88.1	1		05/08/19 13:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		05/08/19 13:40	87-68-3	
n-Hexane	ND	ug/kg	4.4	1		05/08/19 13:40	110-54-3	
2-Hexanone	ND	ug/kg	88.1	1		05/08/19 13:40	591-78-6	
Iodomethane	ND	ug/kg	88.1	1		05/08/19 13:40	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-1 (0-2) **Lab ID: 50224029007** Collected: 05/06/19 11:27 Received: 05/07/19 07:45 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	4.4	1		05/08/19 13:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		05/08/19 13:40	99-87-6	
Methylene Chloride	ND	ug/kg	17.6	1		05/08/19 13:40	75-09-2	
1-Methylnaphthalene	ND	ug/kg	8.8	1		05/08/19 13:40	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	8.8	1		05/08/19 13:40	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.0	1		05/08/19 13:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		05/08/19 13:40	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		05/08/19 13:40	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		05/08/19 13:40	103-65-1	
Styrene	ND	ug/kg	4.4	1		05/08/19 13:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		05/08/19 13:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		05/08/19 13:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		05/08/19 13:40	127-18-4	
Toluene	ND	ug/kg	4.4	1		05/08/19 13:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		05/08/19 13:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		05/08/19 13:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		05/08/19 13:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		05/08/19 13:40	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		05/08/19 13:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		05/08/19 13:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		05/08/19 13:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		05/08/19 13:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		05/08/19 13:40	108-67-8	
Vinyl acetate	ND	ug/kg	88.1	1		05/08/19 13:40	108-05-4	
Vinyl chloride	ND	ug/kg	4.4	1		05/08/19 13:40	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		05/08/19 13:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	77-131	1		05/08/19 13:40	1868-53-7	
Toluene-d8 (S)	101	%	77-127	1		05/08/19 13:40	2037-26-5	
4-Bromofluorobenzene (S)	95	%	65-119	1		05/08/19 13:40	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	18.8	%	0.10	1		05/13/19 09:27		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-1 (2-4) **Lab ID: 50224029008** Collected: 05/06/19 11:31 Received: 05/07/19 07:45 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	95.8	1		05/08/19 14:12	67-64-1	L1
Acrolein	ND	ug/kg	95.8	1		05/08/19 14:12	107-02-8	
Acrylonitrile	ND	ug/kg	95.8	1		05/08/19 14:12	107-13-1	
Benzene	ND	ug/kg	4.8	1		05/08/19 14:12	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		05/08/19 14:12	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		05/08/19 14:12	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		05/08/19 14:12	75-27-4	
Bromoform	ND	ug/kg	4.8	1		05/08/19 14:12	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		05/08/19 14:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.9	1		05/08/19 14:12	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		05/08/19 14:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		05/08/19 14:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		05/08/19 14:12	98-06-6	
Carbon disulfide	ND	ug/kg	9.6	1		05/08/19 14:12	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		05/08/19 14:12	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		05/08/19 14:12	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		05/08/19 14:12	75-00-3	
Chloroform	ND	ug/kg	4.8	1		05/08/19 14:12	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		05/08/19 14:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		05/08/19 14:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		05/08/19 14:12	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		05/08/19 14:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		05/08/19 14:12	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		05/08/19 14:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		05/08/19 14:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		05/08/19 14:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		05/08/19 14:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.8	1		05/08/19 14:12	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		05/08/19 14:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		05/08/19 14:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		05/08/19 14:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		05/08/19 14:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/08/19 14:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/08/19 14:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		05/08/19 14:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		05/08/19 14:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		05/08/19 14:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		05/08/19 14:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/08/19 14:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/08/19 14:12	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		05/08/19 14:12	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.8	1		05/08/19 14:12	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		05/08/19 14:12	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		05/08/19 14:12	110-54-3	
2-Hexanone	ND	ug/kg	95.8	1		05/08/19 14:12	591-78-6	
Iodomethane	ND	ug/kg	95.8	1		05/08/19 14:12	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001
Pace Project No.: 50224029

Sample: SB-1 (2-4) **Lab ID: 50224029008** Collected: 05/06/19 11:31 Received: 05/07/19 07:45 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		05/08/19 14:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		05/08/19 14:12	99-87-6	
Methylene Chloride	ND	ug/kg	19.2	1		05/08/19 14:12	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.6	1		05/08/19 14:12	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	9.6	1		05/08/19 14:12	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.9	1		05/08/19 14:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		05/08/19 14:12	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		05/08/19 14:12	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		05/08/19 14:12	103-65-1	
Styrene	ND	ug/kg	4.8	1		05/08/19 14:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/08/19 14:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/08/19 14:12	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		05/08/19 14:12	127-18-4	
Toluene	ND	ug/kg	4.8	1		05/08/19 14:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		05/08/19 14:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		05/08/19 14:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		05/08/19 14:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		05/08/19 14:12	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		05/08/19 14:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		05/08/19 14:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		05/08/19 14:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		05/08/19 14:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		05/08/19 14:12	108-67-8	
Vinyl acetate	ND	ug/kg	95.8	1		05/08/19 14:12	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		05/08/19 14:12	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		05/08/19 14:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	77-131	1		05/08/19 14:12	1868-53-7	
Toluene-d8 (S)	99	%.	77-127	1		05/08/19 14:12	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	65-119	1		05/08/19 14:12	460-00-4	

Percent Moisture Analytical Method: SM 2540G

Percent Moisture	19.0	%	0.10	1		05/13/19 09:28		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: **SB-2 (5-4)** Lab ID: **50224029009** Collected: 05/06/19 16:58 Received: 05/07/19 07:45 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	5040	50		05/09/19 06:57	67-64-1	
Acrolein	ND	ug/kg	5040	50		05/09/19 06:57	107-02-8	
Acrylonitrile	ND	ug/kg	5040	50		05/09/19 06:57	107-13-1	
Benzene	ND	ug/kg	252	50		05/09/19 06:57	71-43-2	1d
Bromobenzene	ND	ug/kg	252	50		05/09/19 06:57	108-86-1	
Bromochloromethane	ND	ug/kg	252	50		05/09/19 06:57	74-97-5	
Bromodichloromethane	ND	ug/kg	252	50		05/09/19 06:57	75-27-4	
Bromoform	ND	ug/kg	252	50		05/09/19 06:57	75-25-2	
Bromomethane	ND	ug/kg	252	50		05/09/19 06:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	1260	50		05/09/19 06:57	78-93-3	
n-Butylbenzene	265	ug/kg	252	50		05/09/19 06:57	104-51-8	
sec-Butylbenzene	ND	ug/kg	252	50		05/09/19 06:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	252	50		05/09/19 06:57	98-06-6	
Carbon disulfide	ND	ug/kg	504	50		05/09/19 06:57	75-15-0	
Carbon tetrachloride	ND	ug/kg	252	50		05/09/19 06:57	56-23-5	
Chlorobenzene	ND	ug/kg	252	50		05/09/19 06:57	108-90-7	
Chloroethane	ND	ug/kg	252	50		05/09/19 06:57	75-00-3	
Chloroform	ND	ug/kg	252	50		05/09/19 06:57	67-66-3	
Chloromethane	ND	ug/kg	252	50		05/09/19 06:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	252	50		05/09/19 06:57	95-49-8	
4-Chlorotoluene	ND	ug/kg	252	50		05/09/19 06:57	106-43-4	
Dibromochloromethane	ND	ug/kg	252	50		05/09/19 06:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	252	50		05/09/19 06:57	106-93-4	
Dibromomethane	ND	ug/kg	252	50		05/09/19 06:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	252	50		05/09/19 06:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	252	50		05/09/19 06:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	252	50		05/09/19 06:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5040	50		05/09/19 06:57	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	252	50		05/09/19 06:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	252	50		05/09/19 06:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	252	50		05/09/19 06:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	252	50		05/09/19 06:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	252	50		05/09/19 06:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	252	50		05/09/19 06:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	252	50		05/09/19 06:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	252	50		05/09/19 06:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	252	50		05/09/19 06:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	252	50		05/09/19 06:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	252	50		05/09/19 06:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	252	50		05/09/19 06:57	10061-02-6	
Ethylbenzene	ND	ug/kg	252	50		05/09/19 06:57	100-41-4	
Ethyl methacrylate	ND	ug/kg	5040	50		05/09/19 06:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	252	50		05/09/19 06:57	87-68-3	
n-Hexane	ND	ug/kg	252	50		05/09/19 06:57	110-54-3	
2-Hexanone	ND	ug/kg	5040	50		05/09/19 06:57	591-78-6	
Iodomethane	ND	ug/kg	5040	50		05/09/19 06:57	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224029

Sample: SB-2 (5-4) **Lab ID: 50224029009** Collected: 05/06/19 16:58 Received: 05/07/19 07:45 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)	255	ug/kg	252	50		05/09/19 06:57	98-82-8	
p-Isopropyltoluene	ND	ug/kg	252	50		05/09/19 06:57	99-87-6	
Methylene Chloride	ND	ug/kg	1010	50		05/09/19 06:57	75-09-2	
1-Methylnaphthalene	515	ug/kg	504	50		05/09/19 06:57	90-12-0	N2
2-Methylnaphthalene	665	ug/kg	504	50		05/09/19 06:57	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1260	50		05/09/19 06:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	252	50		05/09/19 06:57	1634-04-4	
Naphthalene	709	ug/kg	252	50		05/09/19 06:57	91-20-3	C0
n-Propylbenzene	849	ug/kg	252	50		05/09/19 06:57	103-65-1	
Styrene	ND	ug/kg	252	50		05/09/19 06:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	252	50		05/09/19 06:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	252	50		05/09/19 06:57	79-34-5	
Tetrachloroethene	ND	ug/kg	252	50		05/09/19 06:57	127-18-4	
Toluene	ND	ug/kg	252	50		05/09/19 06:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	252	50		05/09/19 06:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	252	50		05/09/19 06:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	252	50		05/09/19 06:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	252	50		05/09/19 06:57	79-00-5	
Trichloroethene	ND	ug/kg	252	50		05/09/19 06:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	252	50		05/09/19 06:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	252	50		05/09/19 06:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	252	50		05/09/19 06:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	252	50		05/09/19 06:57	108-67-8	
Vinyl acetate	ND	ug/kg	5040	50		05/09/19 06:57	108-05-4	
Vinyl chloride	ND	ug/kg	252	50		05/09/19 06:57	75-01-4	
Xylene (Total)	ND	ug/kg	504	50		05/09/19 06:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	77-131	50		05/09/19 06:57	1868-53-7	D4
Toluene-d8 (S)	97	%	77-127	50		05/09/19 06:57	2037-26-5	
4-Bromofluorobenzene (S)	104	%	65-119	50		05/09/19 06:57	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	19.4	%	0.10	1		05/13/19 09:28		
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

QC Batch: 499194

Analysis Method: EPA 5030/8260

QC Batch Method: EPA 5030/8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50224029001, 50224029002, 50224029003, 50224029004, 50224029005, 50224029006

METHOD BLANK: 2302769

Matrix: Water

Associated Lab Samples: 50224029001, 50224029002, 50224029003, 50224029004, 50224029005, 50224029006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/08/19 22:42	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/08/19 22:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/08/19 22:42	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/08/19 22:42	
1,1-Dichloroethane	ug/L	ND	5.0	05/08/19 22:42	
1,1-Dichloroethene	ug/L	ND	5.0	05/08/19 22:42	
1,1-Dichloropropene	ug/L	ND	5.0	05/08/19 22:42	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/08/19 22:42	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/08/19 22:42	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/08/19 22:42	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/08/19 22:42	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/08/19 22:42	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/08/19 22:42	
1,2-Dichloroethane	ug/L	ND	5.0	05/08/19 22:42	
1,2-Dichloropropane	ug/L	ND	5.0	05/08/19 22:42	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/08/19 22:42	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/08/19 22:42	
1,3-Dichloropropane	ug/L	ND	5.0	05/08/19 22:42	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/08/19 22:42	
1-Methylnaphthalene	ug/L	ND	10.0	05/08/19 22:42	N2
2,2-Dichloropropane	ug/L	ND	5.0	05/08/19 22:42	
2-Butanone (MEK)	ug/L	ND	25.0	05/08/19 22:42	
2-Chlorotoluene	ug/L	ND	5.0	05/08/19 22:42	
2-Hexanone	ug/L	ND	25.0	05/08/19 22:42	
2-Methylnaphthalene	ug/L	ND	10.0	05/08/19 22:42	
4-Chlorotoluene	ug/L	ND	5.0	05/08/19 22:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/08/19 22:42	
Acetone	ug/L	ND	100	05/08/19 22:42	
Acrolein	ug/L	ND	50.0	05/08/19 22:42	
Acrylonitrile	ug/L	ND	100	05/08/19 22:42	
Benzene	ug/L	ND	5.0	05/08/19 22:42	
Bromobenzene	ug/L	ND	5.0	05/08/19 22:42	
Bromochloromethane	ug/L	ND	5.0	05/08/19 22:42	
Bromodichloromethane	ug/L	ND	5.0	05/08/19 22:42	
Bromoform	ug/L	ND	5.0	05/08/19 22:42	
Bromomethane	ug/L	ND	5.0	05/08/19 22:42	
Carbon disulfide	ug/L	ND	10.0	05/08/19 22:42	
Carbon tetrachloride	ug/L	ND	5.0	05/08/19 22:42	
Chlorobenzene	ug/L	ND	5.0	05/08/19 22:42	
Chloroethane	ug/L	ND	5.0	05/08/19 22:42	
Chloroform	ug/L	ND	5.0	05/08/19 22:42	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

METHOD BLANK: 2302769

Matrix: Water

Associated Lab Samples: 50224029001, 50224029002, 50224029003, 50224029004, 50224029005, 50224029006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	05/08/19 22:42	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/08/19 22:42	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/08/19 22:42	
Dibromochloromethane	ug/L	ND	5.0	05/08/19 22:42	
Dibromomethane	ug/L	ND	5.0	05/08/19 22:42	
Dichlorodifluoromethane	ug/L	ND	5.0	05/08/19 22:42	
Ethyl methacrylate	ug/L	ND	100	05/08/19 22:42	
Ethylbenzene	ug/L	ND	5.0	05/08/19 22:42	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/08/19 22:42	
Iodomethane	ug/L	ND	10.0	05/08/19 22:42	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/08/19 22:42	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/08/19 22:42	
Methylene Chloride	ug/L	ND	5.0	05/08/19 22:42	
n-Butylbenzene	ug/L	ND	5.0	05/08/19 22:42	
n-Hexane	ug/L	ND	5.0	05/08/19 22:42	
n-Propylbenzene	ug/L	ND	5.0	05/08/19 22:42	
Naphthalene	ug/L	ND	1.7	05/08/19 22:42	
p-Isopropyltoluene	ug/L	ND	5.0	05/08/19 22:42	
sec-Butylbenzene	ug/L	ND	5.0	05/08/19 22:42	
Styrene	ug/L	ND	5.0	05/08/19 22:42	
tert-Butylbenzene	ug/L	ND	5.0	05/08/19 22:42	
Tetrachloroethene	ug/L	ND	5.0	05/08/19 22:42	
Toluene	ug/L	ND	5.0	05/08/19 22:42	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/08/19 22:42	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/08/19 22:42	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/08/19 22:42	
Trichloroethene	ug/L	ND	5.0	05/08/19 22:42	
Trichlorofluoromethane	ug/L	ND	5.0	05/08/19 22:42	
Vinyl acetate	ug/L	ND	50.0	05/08/19 22:42	
Vinyl chloride	ug/L	ND	2.0	05/08/19 22:42	
Xylene (Total)	ug/L	ND	10.0	05/08/19 22:42	
4-Bromofluorobenzene (S)	%	101	85-114	05/08/19 22:42	
Dibromofluoromethane (S)	%	97	80-122	05/08/19 22:42	
Toluene-d8 (S)	%	96	85-114	05/08/19 22:42	

LABORATORY CONTROL SAMPLE: 2302770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.1	90	72-127	
1,1,2,2-Tetrachloroethane	ug/L	50	46.5	93	70-124	
1,1-Dichloroethene	ug/L	50	51.4	103	71-126	
1,2,4-Trimethylbenzene	ug/L	50	47.4	95	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	47.3	95	81-119	
1,2-Dichloroethane	ug/L	50	41.9	84	68-119	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

LABORATORY CONTROL SAMPLE: 2302770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	48.0	96	79-126	
Benzene	ug/L	50	46.3	93	78-117	
Chlorobenzene	ug/L	50	44.6	89	79-113	
Chloroform	ug/L	50	43.6	87	73-118	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	74-122	
Ethylbenzene	ug/L	50	46.7	93	80-118	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	82-120	
Methyl-tert-butyl ether	ug/L	50	49.8	100	72-128	
Naphthalene	ug/L	50	51.0	102	71-121	
Tetrachloroethene	ug/L	50	43.4	87	76-124	
Toluene	ug/L	50	43.7	87	78-116	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	73-121	
Trichloroethene	ug/L	50	45.3	91	76-120	
Vinyl chloride	ug/L	50	54.2	108	70-136	
Xylene (Total)	ug/L	150	141	94	79-119	
4-Bromofluorobenzene (S)	%			102	85-114	
Dibromofluoromethane (S)	%			99	80-122	
Toluene-d8 (S)	%			97	85-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2302771 2302772

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224029006 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	ND	50	50	50	49.2	43.9	98	88	48-145	11	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50	56.2	49.6	112	99	44-139	12	20	
1,1-Dichloroethene	ug/L	ND	50	50	50	54.8	52.2	110	104	46-148	5	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50	51.6	44.5	103	89	39-140	15	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50	53.9	48.8	108	98	47-143	10	20	
1,2-Dichloroethane	ug/L	ND	50	50	50	50.3	44.8	101	90	44-138	12	20	
1,2-Dichloropropane	ug/L	ND	50	50	50	57.2	49.7	114	99	53-142	14	20	
Benzene	ug/L	ND	50	50	50	53.4	46.3	107	93	49-140	14	20	
Chlorobenzene	ug/L	ND	50	50	50	49.0	45.2	98	90	47-135	8	20	
Chloroform	ug/L	ND	50	50	50	51.0	44.6	102	89	49-136	13	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	50	54.5	48.5	109	97	46-143	12	20	
Ethylbenzene	ug/L	ND	50	50	50	52.9	48.0	103	93	44-145	10	20	
Isopropylbenzene (Cumene)	ug/L	5.6	50	50	50	58.7	54.5	106	98	43-148	8	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	50	59.3	51.3	119	103	38-158	14	20	
Naphthalene	ug/L	8.0	50	50	50	65.9	60.0	116	104	40-137	9	20	
Tetrachloroethene	ug/L	ND	50	50	50	47.2	42.0	94	84	41-145	12	20	
Toluene	ug/L	ND	50	50	50	48.6	44.7	96	89	48-139	8	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	50	55.9	46.9	112	94	46-140	18	20	
Trichloroethene	ug/L	ND	50	50	50	50.6	45.2	101	90	43-147	11	20	
Vinyl chloride	ug/L	ND	50	50	50	57.4	54.3	115	109	49-153	5	20	
Xylene (Total)	ug/L	ND	150	150	150	155	141	103	94	44-147	9	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

Parameter	Units	2302771		2302772		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224029006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
4-Bromofluorobenzene (S)	%.					102	107	85-114			
Dibromofluoromethane (S)	%.					98	95	80-122			
Toluene-d8 (S)	%.					95	98	85-114			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224029

QC Batch: 499186 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50224029009

METHOD BLANK: 2302736 Matrix: Solid
Associated Lab Samples: 50224029009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/08/19 22:27	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/08/19 22:27	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/08/19 22:27	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/08/19 22:27	
1,1-Dichloroethane	ug/kg	ND	5.0	05/08/19 22:27	
1,1-Dichloroethene	ug/kg	ND	5.0	05/08/19 22:27	
1,1-Dichloropropene	ug/kg	ND	5.0	05/08/19 22:27	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/08/19 22:27	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/08/19 22:27	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/08/19 22:27	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/08/19 22:27	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/08/19 22:27	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 22:27	
1,2-Dichloroethane	ug/kg	ND	5.0	05/08/19 22:27	
1,2-Dichloropropane	ug/kg	ND	5.0	05/08/19 22:27	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/08/19 22:27	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 22:27	
1,3-Dichloropropane	ug/kg	ND	5.0	05/08/19 22:27	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 22:27	
1-Methylnaphthalene	ug/kg	ND	10.0	05/08/19 22:27	N2
2,2-Dichloropropane	ug/kg	ND	5.0	05/08/19 22:27	
2-Butanone (MEK)	ug/kg	ND	25.0	05/08/19 22:27	
2-Chlorotoluene	ug/kg	ND	5.0	05/08/19 22:27	
2-Hexanone	ug/kg	ND	100	05/08/19 22:27	
2-Methylnaphthalene	ug/kg	ND	10.0	05/08/19 22:27	
4-Chlorotoluene	ug/kg	ND	5.0	05/08/19 22:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/08/19 22:27	
Acetone	ug/kg	ND	100	05/08/19 22:27	
Acrolein	ug/kg	ND	100	05/08/19 22:27	
Acrylonitrile	ug/kg	ND	100	05/08/19 22:27	
Benzene	ug/kg	ND	5.0	05/08/19 22:27	
Bromobenzene	ug/kg	ND	5.0	05/08/19 22:27	
Bromochloromethane	ug/kg	ND	5.0	05/08/19 22:27	
Bromodichloromethane	ug/kg	ND	5.0	05/08/19 22:27	
Bromoform	ug/kg	ND	5.0	05/08/19 22:27	
Bromomethane	ug/kg	ND	5.0	05/08/19 22:27	
Carbon disulfide	ug/kg	ND	10.0	05/08/19 22:27	
Carbon tetrachloride	ug/kg	ND	5.0	05/08/19 22:27	
Chlorobenzene	ug/kg	ND	5.0	05/08/19 22:27	
Chloroethane	ug/kg	ND	5.0	05/08/19 22:27	
Chloroform	ug/kg	ND	5.0	05/08/19 22:27	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

METHOD BLANK: 2302736

Matrix: Solid

Associated Lab Samples: 50224029009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	05/08/19 22:27	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/08/19 22:27	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/08/19 22:27	
Dibromochloromethane	ug/kg	ND	5.0	05/08/19 22:27	
Dibromomethane	ug/kg	ND	5.0	05/08/19 22:27	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/08/19 22:27	
Ethyl methacrylate	ug/kg	ND	100	05/08/19 22:27	
Ethylbenzene	ug/kg	ND	5.0	05/08/19 22:27	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/08/19 22:27	
Iodomethane	ug/kg	ND	100	05/08/19 22:27	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/08/19 22:27	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/08/19 22:27	
Methylene Chloride	ug/kg	ND	20.0	05/08/19 22:27	
n-Butylbenzene	ug/kg	ND	5.0	05/08/19 22:27	
n-Hexane	ug/kg	ND	5.0	05/08/19 22:27	
n-Propylbenzene	ug/kg	ND	5.0	05/08/19 22:27	
Naphthalene	ug/kg	ND	5.0	05/08/19 22:27	
p-Isopropyltoluene	ug/kg	ND	5.0	05/08/19 22:27	
sec-Butylbenzene	ug/kg	ND	5.0	05/08/19 22:27	
Styrene	ug/kg	ND	5.0	05/08/19 22:27	
tert-Butylbenzene	ug/kg	ND	5.0	05/08/19 22:27	
Tetrachloroethene	ug/kg	ND	5.0	05/08/19 22:27	
Toluene	ug/kg	ND	5.0	05/08/19 22:27	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/08/19 22:27	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/08/19 22:27	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/08/19 22:27	
Trichloroethene	ug/kg	ND	5.0	05/08/19 22:27	
Trichlorofluoromethane	ug/kg	ND	5.0	05/08/19 22:27	
Vinyl acetate	ug/kg	ND	100	05/08/19 22:27	
Vinyl chloride	ug/kg	ND	5.0	05/08/19 22:27	
Xylene (Total)	ug/kg	ND	10.0	05/08/19 22:27	
4-Bromofluorobenzene (S)	%	99	65-119	05/08/19 22:27	
Dibromofluoromethane (S)	%	96	77-131	05/08/19 22:27	
Toluene-d8 (S)	%	92	77-127	05/08/19 22:27	

LABORATORY CONTROL SAMPLE: 2302737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	39.9	80	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	45.9	92	70-124	
1,1-Dichloroethene	ug/kg	50	46.7	93	70-127	
1,2,4-Trimethylbenzene	ug/kg	50	44.2	88	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	41.6	83	77-126	
1,2-Dichloroethane	ug/kg	50	37.6	75	72-120	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

LABORATORY CONTROL SAMPLE: 2302737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/kg	50	44.9	90	77-125	
Benzene	ug/kg	50	47.4	95	74-119	
Chlorobenzene	ug/kg	50	41.6	83	76-113	
Chloroform	ug/kg	50	38.4	77	71-117	
cis-1,2-Dichloroethene	ug/kg	50	41.1	82	70-122	
Ethylbenzene	ug/kg	50	43.2	86	73-118	
Isopropylbenzene (Cumene)	ug/kg	50	41.7	83	74-121	
Methyl-tert-butyl ether	ug/kg	50	43.0	86	74-131	
Naphthalene	ug/kg	50	44.4	89	63-123	
Tetrachloroethene	ug/kg	50	37.3	75	70-116	
Toluene	ug/kg	50	40.7	81	72-112	
trans-1,2-Dichloroethene	ug/kg	50	44.4	89	70-120	
Trichloroethene	ug/kg	50	40.8	82	74-120	
Vinyl chloride	ug/kg	50	52.6	105	58-133	
Xylene (Total)	ug/kg	150	124	83	71-119	
4-Bromofluorobenzene (S)	%			99	65-119	
Dibromofluoromethane (S)	%			91	77-131	
Toluene-d8 (S)	%			94	77-127	

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224029

QC Batch: 499198 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50224029007, 50224029008

METHOD BLANK: 2302787 Matrix: Solid
Associated Lab Samples: 50224029007, 50224029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1-Dichloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1-Dichloroethene	ug/kg	ND	5.0	05/08/19 11:01	
1,1-Dichloropropene	ug/kg	ND	5.0	05/08/19 11:01	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/08/19 11:01	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/08/19 11:01	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,2-Dichloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,2-Dichloropropane	ug/kg	ND	5.0	05/08/19 11:01	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,3-Dichloropropane	ug/kg	ND	5.0	05/08/19 11:01	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1-Methylnaphthalene	ug/kg	ND	10.0	05/08/19 11:01	N2
2,2-Dichloropropane	ug/kg	ND	5.0	05/08/19 11:01	
2-Butanone (MEK)	ug/kg	ND	25.0	05/08/19 11:01	
2-Chlorotoluene	ug/kg	ND	5.0	05/08/19 11:01	
2-Hexanone	ug/kg	ND	100	05/08/19 11:01	
2-Methylnaphthalene	ug/kg	ND	10.0	05/08/19 11:01	
4-Chlorotoluene	ug/kg	ND	5.0	05/08/19 11:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/08/19 11:01	
Acetone	ug/kg	ND	100	05/08/19 11:01	
Acrolein	ug/kg	ND	100	05/08/19 11:01	
Acrylonitrile	ug/kg	ND	100	05/08/19 11:01	
Benzene	ug/kg	ND	5.0	05/08/19 11:01	
Bromobenzene	ug/kg	ND	5.0	05/08/19 11:01	
Bromochloromethane	ug/kg	ND	5.0	05/08/19 11:01	
Bromodichloromethane	ug/kg	ND	5.0	05/08/19 11:01	
Bromoform	ug/kg	ND	5.0	05/08/19 11:01	
Bromomethane	ug/kg	ND	5.0	05/08/19 11:01	
Carbon disulfide	ug/kg	ND	10.0	05/08/19 11:01	
Carbon tetrachloride	ug/kg	ND	5.0	05/08/19 11:01	
Chlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
Chloroethane	ug/kg	ND	5.0	05/08/19 11:01	
Chloroform	ug/kg	ND	5.0	05/08/19 11:01	

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224029

METHOD BLANK: 2302787 Matrix: Solid

Associated Lab Samples: 50224029007, 50224029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	05/08/19 11:01	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/08/19 11:01	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/08/19 11:01	
Dibromochloromethane	ug/kg	ND	5.0	05/08/19 11:01	
Dibromomethane	ug/kg	ND	5.0	05/08/19 11:01	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/08/19 11:01	
Ethyl methacrylate	ug/kg	ND	100	05/08/19 11:01	
Ethylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/08/19 11:01	
Iodomethane	ug/kg	ND	100	05/08/19 11:01	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/08/19 11:01	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/08/19 11:01	
Methylene Chloride	ug/kg	ND	20.0	05/08/19 11:01	
n-Butylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
n-Hexane	ug/kg	ND	5.0	05/08/19 11:01	
n-Propylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
Naphthalene	ug/kg	ND	5.0	05/08/19 11:01	
p-Isopropyltoluene	ug/kg	ND	5.0	05/08/19 11:01	
sec-Butylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
Styrene	ug/kg	ND	5.0	05/08/19 11:01	
tert-Butylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
Tetrachloroethene	ug/kg	ND	5.0	05/08/19 11:01	
Toluene	ug/kg	ND	5.0	05/08/19 11:01	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/08/19 11:01	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/08/19 11:01	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/08/19 11:01	
Trichloroethene	ug/kg	ND	5.0	05/08/19 11:01	
Trichlorofluoromethane	ug/kg	ND	5.0	05/08/19 11:01	
Vinyl acetate	ug/kg	ND	100	05/08/19 11:01	
Vinyl chloride	ug/kg	ND	5.0	05/08/19 11:01	
Xylene (Total)	ug/kg	ND	10.0	05/08/19 11:01	
4-Bromofluorobenzene (S)	%	98	65-119	05/08/19 11:01	
Dibromofluoromethane (S)	%	98	77-131	05/08/19 11:01	
Toluene-d8 (S)	%	93	77-127	05/08/19 11:01	

LABORATORY CONTROL SAMPLE: 2302788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	48.4	97	81-122	
1,1,1-Trichloroethane	ug/kg	50	46.8	94	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	49.0	98	70-124	
1,1,2-Trichloroethane	ug/kg	50	50.9	102	77-122	
1,1-Dichloroethane	ug/kg	50	50.3	101	69-116	
1,1-Dichloroethene	ug/kg	50	53.7	107	70-127	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

LABORATORY CONTROL SAMPLE: 2302788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/kg	50	47.8	96	72-122	
1,2,3-Trichlorobenzene	ug/kg	50	45.4	91	56-118	
1,2,3-Trichloropropane	ug/kg	50	47.5	95	71-124	
1,2,4-Trichlorobenzene	ug/kg	50	47.3	95	50-123	
1,2,4-Trimethylbenzene	ug/kg	50	48.9	98	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	49.4	99	77-126	
1,2-Dichlorobenzene	ug/kg	50	47.2	94	73-115	
1,2-Dichloroethane	ug/kg	50	46.1	92	72-120	
1,2-Dichloropropane	ug/kg	50	50.7	101	77-125	
1,3,5-Trimethylbenzene	ug/kg	50	49.4	99	69-114	
1,3-Dichlorobenzene	ug/kg	50	47.2	94	66-115	
1,3-Dichloropropane	ug/kg	50	48.9	98	82-122	
1,4-Dichlorobenzene	ug/kg	50	45.7	91	66-114	
1-Methylnaphthalene	ug/kg	50	52.6	105	52-128	N2
2,2-Dichloropropane	ug/kg	50	49.3	99	60-126	
2-Butanone (MEK)	ug/kg	250	338	135	57-145	
2-Chlorotoluene	ug/kg	50	50.0	100	71-117	
2-Hexanone	ug/kg	250	295	118	64-127	
2-Methylnaphthalene	ug/kg	50	55.4	111	43-126	
4-Chlorotoluene	ug/kg	50	46.7	93	67-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	229	91	60-123	
Acetone	ug/kg	250	490	196	33-174	L1
Acrolein	ug/kg	1000	1260	126	11-200	
Acrylonitrile	ug/kg	200	198	99	64-123	
Benzene	ug/kg	50	49.7	99	74-119	
Bromobenzene	ug/kg	50	48.2	96	73-114	
Bromochloromethane	ug/kg	50	46.6	93	70-118	
Bromodichloromethane	ug/kg	50	47.8	96	73-120	
Bromoform	ug/kg	50	47.2	94	65-118	
Bromomethane	ug/kg	50	67.6	135	37-160	
Carbon disulfide	ug/kg	50	54.8	110	65-123	
Carbon tetrachloride	ug/kg	50	45.2	90	71-125	
Chlorobenzene	ug/kg	50	45.8	92	76-113	
Chloroethane	ug/kg	50	63.0	126	59-148	
Chloroform	ug/kg	50	46.5	93	71-117	
Chloromethane	ug/kg	50	44.3	89	49-112	
cis-1,2-Dichloroethene	ug/kg	50	51.9	104	70-122	
cis-1,3-Dichloropropene	ug/kg	50	50.8	102	75-120	
Dibromochloromethane	ug/kg	50	46.6	93	78-121	
Dibromomethane	ug/kg	50	48.4	97	75-125	
Dichlorodifluoromethane	ug/kg	50	58.8	118	34-163	
Ethyl methacrylate	ug/kg	200	224	112	63-132	
Ethylbenzene	ug/kg	50	49.0	98	73-118	
Hexachloro-1,3-butadiene	ug/kg	50	48.5	97	61-121	
Iodomethane	ug/kg	100	113	113	71-143	
Isopropylbenzene (Cumene)	ug/kg	50	50.1	100	74-121	
Methyl-tert-butyl ether	ug/kg	50	53.2	106	74-131	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

LABORATORY CONTROL SAMPLE: 2302788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	50	55.5	111	67-128	
n-Butylbenzene	ug/kg	50	47.4	95	61-116	
n-Hexane	ug/kg	50	48.6	97	59-119	
n-Propylbenzene	ug/kg	50	50.4	101	70-115	
Naphthalene	ug/kg	50	52.4	105	63-123	
p-Isopropyltoluene	ug/kg	50	48.6	97	68-117	
sec-Butylbenzene	ug/kg	50	50.5	101	72-117	
Styrene	ug/kg	50	51.4	103	75-120	
tert-Butylbenzene	ug/kg	50	43.7	87	55-100	
Tetrachloroethene	ug/kg	50	44.2	88	70-116	
Toluene	ug/kg	50	45.8	92	72-112	
trans-1,2-Dichloroethene	ug/kg	50	51.7	103	70-120	
trans-1,3-Dichloropropene	ug/kg	50	47.3	95	67-119	
trans-1,4-Dichloro-2-butene	ug/kg	200	173	86	57-124	
Trichloroethene	ug/kg	50	47.1	94	74-120	
Trichlorofluoromethane	ug/kg	50	48.8	98	59-139	
Vinyl acetate	ug/kg	200	171	86	70-134	
Vinyl chloride	ug/kg	50	59.1	118	58-133	
Xylene (Total)	ug/kg	150	147	98	71-119	
4-Bromofluorobenzene (S)	%			101	65-119	
Dibromofluoromethane (S)	%			98	77-131	
Toluene-d8 (S)	%			95	77-127	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224029

QC Batch: 499881

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50224029007, 50224029008, 50224029009

SAMPLE DUPLICATE: 2306609

Parameter	Units	50223788001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	55.2	55.8	1	5	

SAMPLE DUPLICATE: 2306610

Parameter	Units	50224103001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.3	10.6	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.

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QUALIFIERS

Project: IN001342.0001

Pace Project No.: 50224029

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.

ANALYTE QUALIFIERS

1d Benzene ND at an estimated RL of 34 ug/kg, based on the MDL. KRM 5/13/19

C0 Result confirmed by second analysis.

D4 Sample was diluted due to the presence of high levels of target analytes.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IN001342.0001

Pace Project No.: 50224029

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50224029001	TB-1 (050619)	EPA 5030/8260	499194		
50224029002	SB-01 (15-11) GW	EPA 5030/8260	499194		
50224029003	SB-01 (11-7) GW	EPA 5030/8260	499194		
50224029004	SB-2 (17-13) GW	EPA 5030/8260	499194		
50224029005	SB-2 (13-9) GW	EPA 5030/8260	499194		
50224029006	SB-2 (9-5) GW	EPA 5030/8260	499194		
50224029007	SB-1 (0-2)	EPA 8260	499198		
50224029008	SB-1 (2-4)	EPA 8260	499198		
50224029009	SB-2 (5-4)	EPA 8260	499186		
50224029007	SB-1 (0-2)	SM 2540G	499881		
50224029008	SB-1 (2-4)	SM 2540G	499881		
50224029009	SB-2 (5-4)	SM 2540G	499881		

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Pace Analytical
CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50224029

Company: Arcadis Billing Information:

Address: 150 W. Market St., Ste. 728

Report To: Randall Woodruff Email To:

Copy To: Jon Akin Site Collection Info/Address:

Customer Project Name/Number: IN001342.0001 State: / County/City: / Time Zone Collected: [] PT [] MT [] CT [] ET

ALL SHADED AREAS are for LAB USE ONLY

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

Phone: / Site/Facility ID #: Compliance Monitoring? [] Yes [] No

Collected By (print): Brin Cosky Purchase Order #: / DW PWS ID #: /

Collected By (signature): [Signature] Turnaround Date Required: 1 week 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: /

Analyses

Asbestos	Barium	Bismuth	Chromium	Cadmium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Sulfate	Tin	Zinc

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:

* 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)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
TB-1(050619)	GW	G	5/16/19	—			3	X
SB-01(15-11)GW				1053			3	X
SB-01(11-7)GW				1118			3	X
SB-1(0-2)				1127			4	X
SB-1(2-4)				1131			4	X
SB-2(17-13)GW				1640			3	X
SB-2(5-4)				1658			4	X
SB-2(13-9)GW				1708			3	X
SB-2(9-5)GW				1731			3	X

LAB USE ONLY: Lab Sample # / Comments:

126	001
	002
	003
	007
	008
	004
	009
	005
	006

Customer Remarks / Special Conditions / Possible Hazards:

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 #: 2397280

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) [Signature] Arcadis Date/Time: 5/16/19 2030

Relinquished by/Company: (Signature) [Signature] Date/Time: 5-7-19/ 745

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) [Signature] Date/Time: 5-7-19 / 0715

Received by/Company: (Signature) [Signature] Date/Time: 5/7/19 7:45

Received by/Company: (Signature) Date/Time:

MTJL LAB USE ONLY

Table #: / Acctnum: / Template: / Prelogin: / PM: / PB:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA
 Therm ID#: E
 Cooler 1 Temp Upon Receipt: 1.1 oC
 Cooler 1 Therm Corr. Factor: 0.0 oC
 Cooler 1 Corrected Temp: 1.1 oC
 Comments:

Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Page 38 of 40

Non Conformance(s): YES / NO Page: of:



SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50224029

Date/Time and Initials of person examining contents: ZL 5/17/19 08:37

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 F Ice Type: Wet Blue None | Samples collected today and on ice: Yes No N/A

Cooler Temperature: 1.1 / 1.1 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

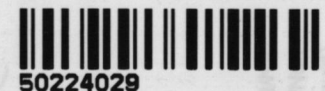
All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	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.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			<input checked="" type="checkbox"/>
Chain of Custody Present:	<input checked="" type="checkbox"/>		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>		Dissolved Metals field filtered?:			<input checked="" type="checkbox"/>
Short Hold Time Analysis (<72hr)? Analysis: <u>TC</u>	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab: <u>09:00</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<input checked="" type="checkbox"/>
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Rush TAT Requested:		<input checked="" type="checkbox"/>	Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/>		
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Present?:	<input checked="" type="checkbox"/>		
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Custody Seals?:	<input checked="" type="checkbox"/>		

Comments: H5 26mm SB-01 (15-11) GW Y3 ZL 5/17/19

Sample Container Count

WO#: 50224029



CLIENT: Arcadis

COC PAGE 1 of 1
COC ID# 2397180

Project # 50224029

SBS
Quik
Kit

Sample Line Item	DG9H (F)	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	3																	WT			
2																					
3																					
4																	4	SL			
5																	4	SL			
6	3																	WT			
7																	4	SL			
8	3																	WT			
9	3																	WT			
10																					
11																					
12																					

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

May 15, 2019

Mr. Jon Akin
Arcadis U.S., Inc.
150 West Market Street
Suite 700
Indianapolis, IN 46204

RE: Project: IN001342.0001
Pace Project No.: 50224152

Dear Mr. Akin:

Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2019. 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,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IN001342.0001

Pace Project No.: 50224152

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

Michigan Department of Environmental Quality, Laboratory
#9050

Ohio VAP Certification #: CL0065

Oklahoma Certification #: 2018-101

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IN001342.0001

Pace Project No.: 50224152

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50224152001	SB-3 (2-0)	Solid	05/07/19 10:44	05/07/19 17:50
50224152002	SB-3 (4-2)	Solid	05/07/19 10:55	05/07/19 17:50
50224152003	SB-4 (2-0)	Solid	05/07/19 12:32	05/07/19 17:50
50224152004	SB-4 (4-2)	Solid	05/07/19 12:37	05/07/19 17:50
50224152005	SB-5 (4-2)	Solid	05/07/19 14:17	05/07/19 17:50
50224152006	SB-5 (5-4)	Solid	05/07/19 14:22	05/07/19 17:50
50224152007	SB-6 (2-0)	Solid	05/07/19 16:08	05/07/19 17:50
50224152008	SB-6 (4-2)	Solid	05/07/19 16:13	05/07/19 17:50
50224152009	Dup-2 (050719)	Solid	05/07/19 08:00	05/07/19 17:50
50224152010	Dup-1 (050719)	Water	05/07/19 08:00	05/07/19 17:50
50224152011	SB-3(11-7) GW	Water	05/07/19 10:49	05/07/19 17:50
50224152012	SB-3(15-11) GW	Water	05/07/19 10:21	05/07/19 17:50
50224152013	SB-3(19-15) GW	Water	05/07/19 09:58	05/07/19 17:50
50224152014	SB-4(14-10) GW	Water	05/07/19 12:13	05/07/19 17:50
50224152015	SB-5(18-14) GW	Water	05/07/19 13:51	05/07/19 17:50
50224152016	SB-6(15-11) GW	Water	05/07/19 16:21	05/07/19 17:50
50224152017	TB-2 (050719)	Water	05/07/19 08:00	05/07/19 17:50

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SAMPLE ANALYTE COUNT

Project: IN001342.0001

Pace Project No.: 50224152

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50224152001	SB-3 (2-0)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152002	SB-3 (4-2)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152003	SB-4 (2-0)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152004	SB-4 (4-2)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152005	SB-5 (4-2)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152006	SB-5 (5-4)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152007	SB-6 (2-0)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152008	SB-6 (4-2)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152009	Dup-2 (050719)	EPA 8260	KRM1	75
		SM 2540G	RM1	1
50224152010	Dup-1 (050719)	EPA 5030/8260	CAP	75
50224152011	SB-3(11-7) GW	EPA 5030/8260	CAP	75
50224152012	SB-3(15-11) GW	EPA 5030/8260	CAP	75
50224152013	SB-3(19-15) GW	EPA 5030/8260	CAP	75
50224152014	SB-4(14-10) GW	EPA 5030/8260	CAP	75
50224152015	SB-5(18-14) GW	EPA 5030/8260	CAP	75
50224152016	SB-6(15-11) GW	EPA 5030/8260	CAP	75
50224152017	TB-2 (050719)	EPA 5030/8260	CAP	75

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SUMMARY OF DETECTION

Project: IN001342.0001

Pace Project No.: 50224152

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50224152001	SB-3 (2-0)					
SM 2540G	Percent Moisture	13.4	%	0.10	05/13/19 14:19	
50224152002	SB-3 (4-2)					
SM 2540G	Percent Moisture	18.8	%	0.10	05/13/19 14:19	
50224152003	SB-4 (2-0)					
EPA 8260	1,2-Dichlorobenzene	5.8	ug/kg	4.6	05/08/19 17:55	
SM 2540G	Percent Moisture	9.5	%	0.10	05/13/19 14:20	
50224152004	SB-4 (4-2)					
EPA 8260	1-Methylnaphthalene	51.5	ug/kg	10.9	05/08/19 18:27	N2
EPA 8260	2-Methylnaphthalene	19.6	ug/kg	10.9	05/08/19 18:27	
EPA 8260	Naphthalene	9.4	ug/kg	5.4	05/08/19 18:27	
SM 2540G	Percent Moisture	18.1	%	0.10	05/13/19 14:20	
50224152005	SB-5 (4-2)					
EPA 8260	n-Butylbenzene	7.3	ug/kg	5.7	05/08/19 18:59	
SM 2540G	Percent Moisture	21.9	%	0.10	05/13/19 14:20	
50224152006	SB-5 (5-4)					
EPA 8260	n-Butylbenzene	89.3	ug/kg	5.0	05/08/19 19:31	
EPA 8260	sec-Butylbenzene	59.8	ug/kg	5.0	05/08/19 19:31	
EPA 8260	Isopropylbenzene (Cumene)	13.9	ug/kg	5.0	05/08/19 19:31	
EPA 8260	1-Methylnaphthalene	27.9	ug/kg	10	05/08/19 19:31	N2
EPA 8260	n-Propylbenzene	36.0	ug/kg	5.0	05/08/19 19:31	
SM 2540G	Percent Moisture	18.9	%	0.10	05/13/19 14:20	
50224152007	SB-6 (2-0)					
SM 2540G	Percent Moisture	9.1	%	0.10	05/13/19 14:21	
50224152008	SB-6 (4-2)					
SM 2540G	Percent Moisture	18.7	%	0.10	05/13/19 14:21	
50224152009	Dup-2 (050719)					
SM 2540G	Percent Moisture	18.7	%	0.10	05/13/19 14:21	
50224152014	SB-4(14-10) GW					
EPA 5030/8260	1,1-Dichloroethane	140	ug/L	5.0	05/09/19 08:19	
EPA 5030/8260	cis-1,2-Dichloroethene	23.0	ug/L	5.0	05/09/19 08:19	
EPA 5030/8260	1,1,1-Trichloroethane	256	ug/L	5.0	05/09/19 08:19	
50224152015	SB-5(18-14) GW					
EPA 5030/8260	cis-1,2-Dichloroethene	6.3	ug/L	5.0	05/09/19 08:51	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3 (2-0) **Lab ID: 50224152001** Collected: 05/07/19 10:44 Received: 05/07/19 17:50 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	99.7	1		05/08/19 14:44	67-64-1	L1
Acrolein	ND	ug/kg	99.7	1		05/08/19 14:44	107-02-8	
Acrylonitrile	ND	ug/kg	99.7	1		05/08/19 14:44	107-13-1	
Benzene	ND	ug/kg	5.0	1		05/08/19 14:44	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/08/19 14:44	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/08/19 14:44	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/08/19 14:44	75-27-4	
Bromoform	ND	ug/kg	5.0	1		05/08/19 14:44	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		05/08/19 14:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.9	1		05/08/19 14:44	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		05/08/19 14:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		05/08/19 14:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/08/19 14:44	98-06-6	
Carbon disulfide	ND	ug/kg	10	1		05/08/19 14:44	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/08/19 14:44	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/08/19 14:44	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		05/08/19 14:44	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/08/19 14:44	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		05/08/19 14:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/08/19 14:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/08/19 14:44	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		05/08/19 14:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/08/19 14:44	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/08/19 14:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 14:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 14:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 14:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	99.7	1		05/08/19 14:44	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		05/08/19 14:44	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/08/19 14:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/08/19 14:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 14:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 14:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 14:44	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 14:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 14:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 14:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 14:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 14:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 14:44	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		05/08/19 14:44	100-41-4	
Ethyl methacrylate	ND	ug/kg	99.7	1		05/08/19 14:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/08/19 14:44	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		05/08/19 14:44	110-54-3	
2-Hexanone	ND	ug/kg	99.7	1		05/08/19 14:44	591-78-6	
Iodomethane	ND	ug/kg	99.7	1		05/08/19 14:44	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3 (2-0) **Lab ID: 50224152001** Collected: 05/07/19 10:44 Received: 05/07/19 17:50 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	5.0	1		05/08/19 14:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/08/19 14:44	99-87-6	
Methylene Chloride	ND	ug/kg	19.9	1		05/08/19 14:44	75-09-2	
1-Methylnaphthalene	ND	ug/kg	10	1		05/08/19 14:44	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	10	1		05/08/19 14:44	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.9	1		05/08/19 14:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/08/19 14:44	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/08/19 14:44	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		05/08/19 14:44	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/08/19 14:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/08/19 14:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/08/19 14:44	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/08/19 14:44	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/08/19 14:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/08/19 14:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/08/19 14:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/08/19 14:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/08/19 14:44	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/08/19 14:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/08/19 14:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/08/19 14:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/08/19 14:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/08/19 14:44	108-67-8	
Vinyl acetate	ND	ug/kg	99.7	1		05/08/19 14:44	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		05/08/19 14:44	75-01-4	
Xylene (Total)	ND	ug/kg	10	1		05/08/19 14:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	77-131	1		05/08/19 14:44	1868-53-7	
Toluene-d8 (S)	104	%.	77-127	1		05/08/19 14:44	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	65-119	1		05/08/19 14:44	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	13.4	%	0.10	1		05/13/19 14:19		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3 (4-2) **Lab ID: 50224152002** Collected: 05/07/19 10:55 Received: 05/07/19 17:50 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	99.2	1		05/08/19 15:16	67-64-1	L1
Acrolein	ND	ug/kg	99.2	1		05/08/19 15:16	107-02-8	
Acrylonitrile	ND	ug/kg	99.2	1		05/08/19 15:16	107-13-1	
Benzene	ND	ug/kg	5.0	1		05/08/19 15:16	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/08/19 15:16	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/08/19 15:16	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/08/19 15:16	75-27-4	
Bromoform	ND	ug/kg	5.0	1		05/08/19 15:16	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		05/08/19 15:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.8	1		05/08/19 15:16	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		05/08/19 15:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		05/08/19 15:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/08/19 15:16	98-06-6	
Carbon disulfide	ND	ug/kg	9.9	1		05/08/19 15:16	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/08/19 15:16	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/08/19 15:16	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		05/08/19 15:16	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/08/19 15:16	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		05/08/19 15:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/08/19 15:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/08/19 15:16	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		05/08/19 15:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/08/19 15:16	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/08/19 15:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 15:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 15:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 15:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	99.2	1		05/08/19 15:16	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		05/08/19 15:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/08/19 15:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/08/19 15:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 15:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 15:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 15:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 15:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 15:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 15:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 15:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 15:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 15:16	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		05/08/19 15:16	100-41-4	
Ethyl methacrylate	ND	ug/kg	99.2	1		05/08/19 15:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/08/19 15:16	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		05/08/19 15:16	110-54-3	
2-Hexanone	ND	ug/kg	99.2	1		05/08/19 15:16	591-78-6	
Iodomethane	ND	ug/kg	99.2	1		05/08/19 15:16	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3 (4-2) **Lab ID: 50224152002** Collected: 05/07/19 10:55 Received: 05/07/19 17:50 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	5.0	1		05/08/19 15:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/08/19 15:16	99-87-6	
Methylene Chloride	ND	ug/kg	19.8	1		05/08/19 15:16	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.9	1		05/08/19 15:16	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	9.9	1		05/08/19 15:16	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.8	1		05/08/19 15:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/08/19 15:16	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/08/19 15:16	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		05/08/19 15:16	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/08/19 15:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/08/19 15:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/08/19 15:16	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/08/19 15:16	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/08/19 15:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/08/19 15:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/08/19 15:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/08/19 15:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/08/19 15:16	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/08/19 15:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/08/19 15:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/08/19 15:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/08/19 15:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/08/19 15:16	108-67-8	
Vinyl acetate	ND	ug/kg	99.2	1		05/08/19 15:16	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		05/08/19 15:16	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		05/08/19 15:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	77-131	1		05/08/19 15:16	1868-53-7	
Toluene-d8 (S)	90	%	77-127	1		05/08/19 15:16	2037-26-5	
4-Bromofluorobenzene (S)	101	%	65-119	1		05/08/19 15:16	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	18.8	%	0.10	1		05/13/19 14:19		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-4 (2-0) **Lab ID: 50224152003** Collected: 05/07/19 12:32 Received: 05/07/19 17:50 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	92.3	1		05/08/19 17:55	67-64-1	L1
Acrolein	ND	ug/kg	92.3	1		05/08/19 17:55	107-02-8	
Acrylonitrile	ND	ug/kg	92.3	1		05/08/19 17:55	107-13-1	
Benzene	ND	ug/kg	4.6	1		05/08/19 17:55	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		05/08/19 17:55	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		05/08/19 17:55	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		05/08/19 17:55	75-27-4	
Bromoform	ND	ug/kg	4.6	1		05/08/19 17:55	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		05/08/19 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.1	1		05/08/19 17:55	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		05/08/19 17:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		05/08/19 17:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		05/08/19 17:55	98-06-6	
Carbon disulfide	ND	ug/kg	9.2	1		05/08/19 17:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		05/08/19 17:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		05/08/19 17:55	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		05/08/19 17:55	75-00-3	
Chloroform	ND	ug/kg	4.6	1		05/08/19 17:55	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		05/08/19 17:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		05/08/19 17:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		05/08/19 17:55	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		05/08/19 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		05/08/19 17:55	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		05/08/19 17:55	74-95-3	
1,2-Dichlorobenzene	5.8	ug/kg	4.6	1		05/08/19 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		05/08/19 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		05/08/19 17:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	92.3	1		05/08/19 17:55	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		05/08/19 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		05/08/19 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		05/08/19 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		05/08/19 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		05/08/19 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		05/08/19 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		05/08/19 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		05/08/19 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		05/08/19 17:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		05/08/19 17:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		05/08/19 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		05/08/19 17:55	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		05/08/19 17:55	100-41-4	
Ethyl methacrylate	ND	ug/kg	92.3	1		05/08/19 17:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		05/08/19 17:55	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		05/08/19 17:55	110-54-3	
2-Hexanone	ND	ug/kg	92.3	1		05/08/19 17:55	591-78-6	
Iodomethane	ND	ug/kg	92.3	1		05/08/19 17:55	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-4 (2-0) **Lab ID: 50224152003** Collected: 05/07/19 12:32 Received: 05/07/19 17:50 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	4.6	1		05/08/19 17:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		05/08/19 17:55	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		05/08/19 17:55	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.2	1		05/08/19 17:55	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	9.2	1		05/08/19 17:55	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.1	1		05/08/19 17:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		05/08/19 17:55	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		05/08/19 17:55	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		05/08/19 17:55	103-65-1	
Styrene	ND	ug/kg	4.6	1		05/08/19 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		05/08/19 17:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		05/08/19 17:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		05/08/19 17:55	127-18-4	
Toluene	ND	ug/kg	4.6	1		05/08/19 17:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		05/08/19 17:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		05/08/19 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		05/08/19 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		05/08/19 17:55	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		05/08/19 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		05/08/19 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		05/08/19 17:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		05/08/19 17:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		05/08/19 17:55	108-67-8	
Vinyl acetate	ND	ug/kg	92.3	1		05/08/19 17:55	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		05/08/19 17:55	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		05/08/19 17:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	77-131	1		05/08/19 17:55	1868-53-7	
Toluene-d8 (S)	93	%.	77-127	1		05/08/19 17:55	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	65-119	1		05/08/19 17:55	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	9.5	%	0.10	1		05/13/19 14:20		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-4 (4-2) **Lab ID: 50224152004** Collected: 05/07/19 12:37 Received: 05/07/19 17:50 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	109	1		05/08/19 18:27	67-64-1	L1
Acrolein	ND	ug/kg	109	1		05/08/19 18:27	107-02-8	
Acrylonitrile	ND	ug/kg	109	1		05/08/19 18:27	107-13-1	
Benzene	ND	ug/kg	5.4	1		05/08/19 18:27	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		05/08/19 18:27	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		05/08/19 18:27	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		05/08/19 18:27	75-27-4	
Bromoform	ND	ug/kg	5.4	1		05/08/19 18:27	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		05/08/19 18:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.2	1		05/08/19 18:27	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		05/08/19 18:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		05/08/19 18:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		05/08/19 18:27	98-06-6	
Carbon disulfide	ND	ug/kg	10.9	1		05/08/19 18:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		05/08/19 18:27	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		05/08/19 18:27	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		05/08/19 18:27	75-00-3	
Chloroform	ND	ug/kg	5.4	1		05/08/19 18:27	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		05/08/19 18:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		05/08/19 18:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		05/08/19 18:27	106-43-4	
Dibromochloromethane	ND	ug/kg	5.4	1		05/08/19 18:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		05/08/19 18:27	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		05/08/19 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		05/08/19 18:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		05/08/19 18:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		05/08/19 18:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	109	1		05/08/19 18:27	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		05/08/19 18:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		05/08/19 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		05/08/19 18:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		05/08/19 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		05/08/19 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		05/08/19 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		05/08/19 18:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		05/08/19 18:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		05/08/19 18:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		05/08/19 18:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		05/08/19 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		05/08/19 18:27	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		05/08/19 18:27	100-41-4	
Ethyl methacrylate	ND	ug/kg	109	1		05/08/19 18:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		05/08/19 18:27	87-68-3	
n-Hexane	ND	ug/kg	5.4	1		05/08/19 18:27	110-54-3	
2-Hexanone	ND	ug/kg	109	1		05/08/19 18:27	591-78-6	
Iodomethane	ND	ug/kg	109	1		05/08/19 18:27	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-4 (4-2) **Lab ID: 50224152004** Collected: 05/07/19 12:37 Received: 05/07/19 17:50 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	5.4	1		05/08/19 18:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		05/08/19 18:27	99-87-6	
Methylene Chloride	ND	ug/kg	21.8	1		05/08/19 18:27	75-09-2	
1-Methylnaphthalene	51.5	ug/kg	10.9	1		05/08/19 18:27	90-12-0	N2
2-Methylnaphthalene	19.6	ug/kg	10.9	1		05/08/19 18:27	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.2	1		05/08/19 18:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		05/08/19 18:27	1634-04-4	
Naphthalene	9.4	ug/kg	5.4	1		05/08/19 18:27	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		05/08/19 18:27	103-65-1	
Styrene	ND	ug/kg	5.4	1		05/08/19 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		05/08/19 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		05/08/19 18:27	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		05/08/19 18:27	127-18-4	
Toluene	ND	ug/kg	5.4	1		05/08/19 18:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		05/08/19 18:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		05/08/19 18:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		05/08/19 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		05/08/19 18:27	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		05/08/19 18:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		05/08/19 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		05/08/19 18:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		05/08/19 18:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		05/08/19 18:27	108-67-8	
Vinyl acetate	ND	ug/kg	109	1		05/08/19 18:27	108-05-4	
Vinyl chloride	ND	ug/kg	5.4	1		05/08/19 18:27	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1		05/08/19 18:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	77-131	1		05/08/19 18:27	1868-53-7	
Toluene-d8 (S)	96	%	77-127	1		05/08/19 18:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%	65-119	1		05/08/19 18:27	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	18.1	%	0.10	1		05/13/19 14:20		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-5 (4-2) **Lab ID: 50224152005** Collected: 05/07/19 14:17 Received: 05/07/19 17:50 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		05/08/19 18:59	67-64-1	L1
Acrolein	ND	ug/kg	114	1		05/08/19 18:59	107-02-8	
Acrylonitrile	ND	ug/kg	114	1		05/08/19 18:59	107-13-1	
Benzene	ND	ug/kg	5.7	1		05/08/19 18:59	71-43-2	
Bromobenzene	ND	ug/kg	5.7	1		05/08/19 18:59	108-86-1	
Bromochloromethane	ND	ug/kg	5.7	1		05/08/19 18:59	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1		05/08/19 18:59	75-27-4	
Bromoform	ND	ug/kg	5.7	1		05/08/19 18:59	75-25-2	
Bromomethane	ND	ug/kg	5.7	1		05/08/19 18:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	28.5	1		05/08/19 18:59	78-93-3	
n-Butylbenzene	7.3	ug/kg	5.7	1		05/08/19 18:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.7	1		05/08/19 18:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.7	1		05/08/19 18:59	98-06-6	
Carbon disulfide	ND	ug/kg	11.4	1		05/08/19 18:59	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.7	1		05/08/19 18:59	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	1		05/08/19 18:59	108-90-7	
Chloroethane	ND	ug/kg	5.7	1		05/08/19 18:59	75-00-3	
Chloroform	ND	ug/kg	5.7	1		05/08/19 18:59	67-66-3	
Chloromethane	ND	ug/kg	5.7	1		05/08/19 18:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.7	1		05/08/19 18:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.7	1		05/08/19 18:59	106-43-4	
Dibromochloromethane	ND	ug/kg	5.7	1		05/08/19 18:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1		05/08/19 18:59	106-93-4	
Dibromomethane	ND	ug/kg	5.7	1		05/08/19 18:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.7	1		05/08/19 18:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1		05/08/19 18:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	1		05/08/19 18:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	114	1		05/08/19 18:59	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.7	1		05/08/19 18:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.7	1		05/08/19 18:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1		05/08/19 18:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.7	1		05/08/19 18:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1		05/08/19 18:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1		05/08/19 18:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	1		05/08/19 18:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.7	1		05/08/19 18:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.7	1		05/08/19 18:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.7	1		05/08/19 18:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1		05/08/19 18:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1		05/08/19 18:59	10061-02-6	
Ethylbenzene	ND	ug/kg	5.7	1		05/08/19 18:59	100-41-4	
Ethyl methacrylate	ND	ug/kg	114	1		05/08/19 18:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1		05/08/19 18:59	87-68-3	
n-Hexane	ND	ug/kg	5.7	1		05/08/19 18:59	110-54-3	
2-Hexanone	ND	ug/kg	114	1		05/08/19 18:59	591-78-6	
Iodomethane	ND	ug/kg	114	1		05/08/19 18:59	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-5 (4-2) **Lab ID: 50224152005** Collected: 05/07/19 14:17 Received: 05/07/19 17:50 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		05/08/19 18:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.7	1		05/08/19 18:59	99-87-6	
Methylene Chloride	ND	ug/kg	22.8	1		05/08/19 18:59	75-09-2	
1-Methylnaphthalene	ND	ug/kg	11.4	1		05/08/19 18:59	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	11.4	1		05/08/19 18:59	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	28.5	1		05/08/19 18:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	1		05/08/19 18:59	1634-04-4	
Naphthalene	ND	ug/kg	5.7	1		05/08/19 18:59	91-20-3	
n-Propylbenzene	ND	ug/kg	5.7	1		05/08/19 18:59	103-65-1	
Styrene	ND	ug/kg	5.7	1		05/08/19 18:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1		05/08/19 18:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1		05/08/19 18:59	79-34-5	
Tetrachloroethene	ND	ug/kg	5.7	1		05/08/19 18:59	127-18-4	
Toluene	ND	ug/kg	5.7	1		05/08/19 18:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1		05/08/19 18:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1		05/08/19 18:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1		05/08/19 18:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1		05/08/19 18:59	79-00-5	
Trichloroethene	ND	ug/kg	5.7	1		05/08/19 18:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.7	1		05/08/19 18:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.7	1		05/08/19 18:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1		05/08/19 18:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1		05/08/19 18:59	108-67-8	
Vinyl acetate	ND	ug/kg	114	1		05/08/19 18:59	108-05-4	
Vinyl chloride	ND	ug/kg	7.1	1		05/10/19 18:03	75-01-4	
Xylene (Total)	ND	ug/kg	11.4	1		05/08/19 18:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	77-131	1		05/08/19 18:59	1868-53-7	
Toluene-d8 (S)	96	%	77-127	1		05/08/19 18:59	2037-26-5	
4-Bromofluorobenzene (S)	96	%	65-119	1		05/08/19 18:59	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	21.9	%	0.10	1		05/13/19 14:20		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-5 (5-4) **Lab ID: 50224152006** Collected: 05/07/19 14:22 Received: 05/07/19 17:50 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	99.9	1		05/08/19 19:31	67-64-1	L1
Acrolein	ND	ug/kg	99.9	1		05/08/19 19:31	107-02-8	
Acrylonitrile	ND	ug/kg	99.9	1		05/08/19 19:31	107-13-1	
Benzene	ND	ug/kg	5.0	1		05/08/19 19:31	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/08/19 19:31	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/08/19 19:31	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/08/19 19:31	75-27-4	
Bromoform	ND	ug/kg	5.0	1		05/08/19 19:31	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		05/08/19 19:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.0	1		05/08/19 19:31	78-93-3	
n-Butylbenzene	89.3	ug/kg	5.0	1		05/08/19 19:31	104-51-8	
sec-Butylbenzene	59.8	ug/kg	5.0	1		05/08/19 19:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/08/19 19:31	98-06-6	
Carbon disulfide	ND	ug/kg	10	1		05/08/19 19:31	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/08/19 19:31	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/08/19 19:31	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		05/08/19 19:31	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/08/19 19:31	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		05/08/19 19:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/08/19 19:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/08/19 19:31	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		05/08/19 19:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/08/19 19:31	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/08/19 19:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/08/19 19:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	99.9	1		05/08/19 19:31	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		05/08/19 19:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/08/19 19:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/08/19 19:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 19:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/08/19 19:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 19:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 19:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/08/19 19:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 19:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/08/19 19:31	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		05/08/19 19:31	100-41-4	
Ethyl methacrylate	ND	ug/kg	99.9	1		05/08/19 19:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/08/19 19:31	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		05/08/19 19:31	110-54-3	
2-Hexanone	ND	ug/kg	99.9	1		05/08/19 19:31	591-78-6	
Iodomethane	ND	ug/kg	99.9	1		05/08/19 19:31	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-5 (5-4) **Lab ID: 50224152006** Collected: 05/07/19 14:22 Received: 05/07/19 17:50 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)	13.9	ug/kg	5.0	1		05/08/19 19:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/08/19 19:31	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		05/08/19 19:31	75-09-2	
1-Methylnaphthalene	27.9	ug/kg	10	1		05/08/19 19:31	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	10	1		05/08/19 19:31	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.0	1		05/08/19 19:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/08/19 19:31	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/08/19 19:31	91-20-3	
n-Propylbenzene	36.0	ug/kg	5.0	1		05/08/19 19:31	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/08/19 19:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/08/19 19:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/08/19 19:31	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/08/19 19:31	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/08/19 19:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/08/19 19:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/08/19 19:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/08/19 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/08/19 19:31	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/08/19 19:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/08/19 19:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/08/19 19:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/08/19 19:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/08/19 19:31	108-67-8	
Vinyl acetate	ND	ug/kg	99.9	1		05/08/19 19:31	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		05/08/19 19:31	75-01-4	
Xylene (Total)	ND	ug/kg	10	1		05/08/19 19:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	77-131	1		05/08/19 19:31	1868-53-7	
Toluene-d8 (S)	96	%	77-127	1		05/08/19 19:31	2037-26-5	
4-Bromofluorobenzene (S)	109	%	65-119	1		05/08/19 19:31	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	18.9	%	0.10	1		05/13/19 14:20		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-6 (2-0) **Lab ID: 50224152007** Collected: 05/07/19 16:08 Received: 05/07/19 17:50 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	87.3	1		05/08/19 20:03	67-64-1	L1
Acrolein	ND	ug/kg	87.3	1		05/08/19 20:03	107-02-8	
Acrylonitrile	ND	ug/kg	87.3	1		05/08/19 20:03	107-13-1	
Benzene	ND	ug/kg	4.4	1		05/08/19 20:03	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		05/08/19 20:03	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		05/08/19 20:03	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		05/08/19 20:03	75-27-4	
Bromoform	ND	ug/kg	4.4	1		05/08/19 20:03	75-25-2	
Bromomethane	ND	ug/kg	4.4	1		05/08/19 20:03	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.8	1		05/08/19 20:03	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		05/08/19 20:03	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		05/08/19 20:03	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		05/08/19 20:03	98-06-6	
Carbon disulfide	ND	ug/kg	8.7	1		05/08/19 20:03	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1		05/08/19 20:03	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		05/08/19 20:03	108-90-7	
Chloroethane	ND	ug/kg	4.4	1		05/08/19 20:03	75-00-3	
Chloroform	ND	ug/kg	4.4	1		05/08/19 20:03	67-66-3	
Chloromethane	ND	ug/kg	4.4	1		05/08/19 20:03	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		05/08/19 20:03	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		05/08/19 20:03	106-43-4	
Dibromochloromethane	ND	ug/kg	4.4	1		05/08/19 20:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		05/08/19 20:03	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		05/08/19 20:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		05/08/19 20:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		05/08/19 20:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		05/08/19 20:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	87.3	1		05/08/19 20:03	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		05/08/19 20:03	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		05/08/19 20:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		05/08/19 20:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		05/08/19 20:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		05/08/19 20:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		05/08/19 20:03	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		05/08/19 20:03	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		05/08/19 20:03	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		05/08/19 20:03	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		05/08/19 20:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		05/08/19 20:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		05/08/19 20:03	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		05/08/19 20:03	100-41-4	
Ethyl methacrylate	ND	ug/kg	87.3	1		05/08/19 20:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		05/08/19 20:03	87-68-3	
n-Hexane	ND	ug/kg	4.4	1		05/08/19 20:03	110-54-3	
2-Hexanone	ND	ug/kg	87.3	1		05/08/19 20:03	591-78-6	
Iodomethane	ND	ug/kg	87.3	1		05/08/19 20:03	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-6 (2-0) **Lab ID: 50224152007** Collected: 05/07/19 16:08 Received: 05/07/19 17:50 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	4.4	1		05/08/19 20:03	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		05/08/19 20:03	99-87-6	
Methylene Chloride	ND	ug/kg	17.5	1		05/08/19 20:03	75-09-2	
1-Methylnaphthalene	ND	ug/kg	8.7	1		05/08/19 20:03	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	8.7	1		05/08/19 20:03	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.8	1		05/08/19 20:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		05/08/19 20:03	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		05/08/19 20:03	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		05/08/19 20:03	103-65-1	
Styrene	ND	ug/kg	4.4	1		05/08/19 20:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		05/08/19 20:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		05/08/19 20:03	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		05/08/19 20:03	127-18-4	
Toluene	ND	ug/kg	4.4	1		05/08/19 20:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		05/08/19 20:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		05/08/19 20:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		05/08/19 20:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		05/08/19 20:03	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		05/08/19 20:03	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		05/08/19 20:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		05/08/19 20:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		05/08/19 20:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		05/08/19 20:03	108-67-8	
Vinyl acetate	ND	ug/kg	87.3	1		05/08/19 20:03	108-05-4	
Vinyl chloride	ND	ug/kg	4.4	1		05/08/19 20:03	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		05/08/19 20:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	77-131	1		05/08/19 20:03	1868-53-7	
Toluene-d8 (S)	97	%.	77-127	1		05/08/19 20:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	65-119	1		05/08/19 20:03	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	9.1	%	0.10	1		05/13/19 14:21		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-6 (4-2) **Lab ID: 50224152008** Collected: 05/07/19 16:13 Received: 05/07/19 17:50 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	102	1		05/08/19 20:35	67-64-1	L1
Acrolein	ND	ug/kg	102	1		05/08/19 20:35	107-02-8	
Acrylonitrile	ND	ug/kg	102	1		05/08/19 20:35	107-13-1	
Benzene	ND	ug/kg	5.1	1		05/08/19 20:35	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		05/08/19 20:35	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		05/08/19 20:35	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		05/08/19 20:35	75-27-4	
Bromoform	ND	ug/kg	5.1	1		05/08/19 20:35	75-25-2	
Bromomethane	ND	ug/kg	5.1	1		05/08/19 20:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.7	1		05/13/19 14:51	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		05/08/19 20:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		05/08/19 20:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		05/08/19 20:35	98-06-6	
Carbon disulfide	ND	ug/kg	10.2	1		05/08/19 20:35	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	1		05/08/19 20:35	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		05/08/19 20:35	108-90-7	
Chloroethane	ND	ug/kg	5.1	1		05/08/19 20:35	75-00-3	
Chloroform	ND	ug/kg	5.1	1		05/08/19 20:35	67-66-3	
Chloromethane	ND	ug/kg	5.1	1		05/08/19 20:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		05/08/19 20:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		05/08/19 20:35	106-43-4	
Dibromochloromethane	ND	ug/kg	5.1	1		05/08/19 20:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		05/08/19 20:35	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		05/08/19 20:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		05/08/19 20:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		05/08/19 20:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		05/08/19 20:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	102	1		05/08/19 20:35	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.1	1		05/08/19 20:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		05/08/19 20:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		05/08/19 20:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		05/08/19 20:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		05/08/19 20:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		05/08/19 20:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		05/08/19 20:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		05/08/19 20:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		05/08/19 20:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		05/08/19 20:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		05/08/19 20:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		05/08/19 20:35	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	1		05/08/19 20:35	100-41-4	
Ethyl methacrylate	ND	ug/kg	102	1		05/08/19 20:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		05/08/19 20:35	87-68-3	
n-Hexane	ND	ug/kg	5.1	1		05/08/19 20:35	110-54-3	
2-Hexanone	ND	ug/kg	102	1		05/08/19 20:35	591-78-6	
Iodomethane	ND	ug/kg	102	1		05/08/19 20:35	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: **SB-6 (4-2)** Lab ID: **50224152008** Collected: 05/07/19 16:13 Received: 05/07/19 17:50 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	5.1	1		05/08/19 20:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		05/08/19 20:35	99-87-6	
Methylene Chloride	ND	ug/kg	20.5	1		05/08/19 20:35	75-09-2	
1-Methylnaphthalene	ND	ug/kg	10.2	1		05/08/19 20:35	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	10.2	1		05/08/19 20:35	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.6	1		05/08/19 20:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		05/08/19 20:35	1634-04-4	
Naphthalene	ND	ug/kg	5.1	1		05/08/19 20:35	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		05/08/19 20:35	103-65-1	
Styrene	ND	ug/kg	5.1	1		05/08/19 20:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		05/08/19 20:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		05/08/19 20:35	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		05/08/19 20:35	127-18-4	
Toluene	ND	ug/kg	5.1	1		05/08/19 20:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		05/08/19 20:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		05/08/19 20:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		05/08/19 20:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		05/08/19 20:35	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		05/08/19 20:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		05/08/19 20:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		05/08/19 20:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		05/08/19 20:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		05/08/19 20:35	108-67-8	
Vinyl acetate	ND	ug/kg	102	1		05/08/19 20:35	108-05-4	
Vinyl chloride	ND	ug/kg	5.1	1		05/08/19 20:35	75-01-4	
Xylene (Total)	ND	ug/kg	10.2	1		05/08/19 20:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	77-131	1		05/08/19 20:35	1868-53-7	
Toluene-d8 (S)	97	%.	77-127	1		05/08/19 20:35	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	65-119	1		05/08/19 20:35	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	18.7	%	0.10	1		05/13/19 14:21		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: Dup-2 (050719) **Lab ID: 50224152009** Collected: 05/07/19 08:00 Received: 05/07/19 17:50 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	109	1		05/10/19 04:53	67-64-1	
Acrolein	ND	ug/kg	109	1		05/10/19 04:53	107-02-8	
Acrylonitrile	ND	ug/kg	109	1		05/10/19 04:53	107-13-1	
Benzene	ND	ug/kg	5.4	1		05/10/19 04:53	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		05/10/19 04:53	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		05/10/19 04:53	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		05/10/19 04:53	75-27-4	
Bromoform	ND	ug/kg	5.4	1		05/10/19 04:53	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		05/10/19 04:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.2	1		05/10/19 04:53	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		05/10/19 04:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		05/10/19 04:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		05/10/19 04:53	98-06-6	
Carbon disulfide	ND	ug/kg	10.9	1		05/10/19 04:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		05/10/19 04:53	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		05/10/19 04:53	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		05/10/19 04:53	75-00-3	
Chloroform	ND	ug/kg	5.4	1		05/10/19 04:53	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		05/10/19 04:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		05/10/19 04:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		05/10/19 04:53	106-43-4	
Dibromochloromethane	ND	ug/kg	5.4	1		05/10/19 04:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		05/10/19 04:53	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		05/10/19 04:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		05/10/19 04:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		05/10/19 04:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		05/10/19 04:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	109	1		05/10/19 04:53	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		05/10/19 04:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		05/10/19 04:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		05/10/19 04:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		05/10/19 04:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		05/10/19 04:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		05/10/19 04:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		05/10/19 04:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		05/10/19 04:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		05/10/19 04:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		05/10/19 04:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		05/10/19 04:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		05/10/19 04:53	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		05/10/19 04:53	100-41-4	
Ethyl methacrylate	ND	ug/kg	109	1		05/10/19 04:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		05/10/19 04:53	87-68-3	
n-Hexane	ND	ug/kg	5.4	1		05/10/19 04:53	110-54-3	
2-Hexanone	ND	ug/kg	109	1		05/10/19 04:53	591-78-6	
Iodomethane	ND	ug/kg	109	1		05/10/19 04:53	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: Dup-2 (050719) **Lab ID: 50224152009** Collected: 05/07/19 08:00 Received: 05/07/19 17:50 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	5.4	1		05/10/19 04:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		05/10/19 04:53	99-87-6	
Methylene Chloride	ND	ug/kg	21.8	1		05/10/19 04:53	75-09-2	
1-Methylnaphthalene	ND	ug/kg	10.9	1		05/10/19 04:53	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	10.9	1		05/10/19 04:53	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.2	1		05/10/19 04:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		05/10/19 04:53	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		05/10/19 04:53	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		05/10/19 04:53	103-65-1	
Styrene	ND	ug/kg	5.4	1		05/10/19 04:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		05/10/19 04:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		05/10/19 04:53	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		05/10/19 04:53	127-18-4	
Toluene	ND	ug/kg	5.4	1		05/10/19 04:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		05/10/19 04:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		05/10/19 04:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		05/10/19 04:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		05/10/19 04:53	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		05/10/19 04:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		05/10/19 04:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		05/10/19 04:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		05/10/19 04:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		05/10/19 04:53	108-67-8	
Vinyl acetate	ND	ug/kg	109	1		05/10/19 04:53	108-05-4	
Vinyl chloride	ND	ug/kg	5.4	1		05/10/19 04:53	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1		05/10/19 04:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	77-131	1		05/10/19 04:53	1868-53-7	
Toluene-d8 (S)	105	%.	77-127	1		05/10/19 04:53	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	65-119	1		05/10/19 04:53	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	18.7	%	0.10	1		05/13/19 14:21		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: Dup-1 (050719)	Lab ID: 50224152010	Collected: 05/07/19 08:00	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 06:08	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 06:08	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 06:08	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 06:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 06:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 06:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 06:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 06:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 06:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 06:08	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:08	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:08	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 06:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 06:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 06:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 06:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 06:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 06:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:08	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 06:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 06:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 06:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 06:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 06:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 06:08	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 06:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 06:08	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 06:08	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 06:08	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 06:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 06:08	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: Dup-1 (050719)		Lab ID: 50224152010	Collected: 05/07/19 08:00	Received: 05/07/19 17:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 06:08	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 06:08	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:08	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:08	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 06:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 06:08	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 06:08	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 06:08	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 06:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 06:08	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 06:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 06:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 06:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 06:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:08	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 06:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 06:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 06:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	80-122	1		05/09/19 06:08	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	85-114	1		05/09/19 06:08	460-00-4	
Toluene-d8 (S)	98	%.	85-114	1		05/09/19 06:08	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3(11-7) GW	Lab ID: 50224152011	Collected: 05/07/19 10:49	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 06:40	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 06:40	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 06:40	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 06:40	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 06:40	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 06:40	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 06:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 06:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 06:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 06:40	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:40	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:40	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:40	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 06:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 06:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 06:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 06:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 06:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 06:40	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:40	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:40	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 06:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 06:40	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 06:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 06:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 06:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 06:40	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 06:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 06:40	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 06:40	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 06:40	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 06:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 06:40	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3(11-7) GW	Lab ID: 50224152011	Collected: 05/07/19 10:49	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 06:40	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 06:40	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:40	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:40	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 06:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 06:40	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 06:40	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 06:40	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 06:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 06:40	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 06:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 06:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 06:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 06:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:40	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 06:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 06:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 06:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	80-122	1		05/09/19 06:40	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	85-114	1		05/09/19 06:40	460-00-4	
Toluene-d8 (S)	96	%.	85-114	1		05/09/19 06:40	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3(15-11) GW	Lab ID: 50224152012	Collected: 05/07/19 10:21	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 07:13	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 07:13	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 07:13	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 07:13	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 07:13	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 07:13	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 07:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 07:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 07:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 07:13	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:13	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:13	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:13	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 07:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 07:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 07:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 07:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 07:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 07:13	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 07:13	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 07:13	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 07:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 07:13	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 07:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 07:13	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 07:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 07:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 07:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 07:13	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 07:13	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 07:13	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 07:13	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 07:13	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 07:13	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 07:13	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3(15-11) GW	Lab ID: 50224152012	Collected: 05/07/19 10:21	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 07:13	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 07:13	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 07:13	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 07:13	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 07:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 07:13	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 07:13	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 07:13	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 07:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 07:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 07:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 07:13	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 07:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 07:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 07:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 07:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 07:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 07:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 07:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 07:13	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 07:13	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 07:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 07:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	80-122	1		05/09/19 07:13	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	85-114	1		05/09/19 07:13	460-00-4	
Toluene-d8 (S)	98	%.	85-114	1		05/09/19 07:13	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3(19-15) GW **Lab ID: 50224152013** Collected: 05/07/19 09:58 Received: 05/07/19 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 07:46	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 07:46	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 07:46	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 07:46	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 07:46	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 07:46	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 07:46	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 07:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 07:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 07:46	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:46	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:46	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:46	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 07:46	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 07:46	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 07:46	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 07:46	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 07:46	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 07:46	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 07:46	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 07:46	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 07:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 07:46	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 07:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 07:46	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 07:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 07:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 07:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:46	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 07:46	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 07:46	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 07:46	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 07:46	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 07:46	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 07:46	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 07:46	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-3(19-15) GW		Lab ID: 50224152013	Collected: 05/07/19 09:58	Received: 05/07/19 17:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 07:46	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 07:46	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 07:46	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 07:46	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 07:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 07:46	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 07:46	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 07:46	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 07:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 07:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 07:46	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 07:46	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 07:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 07:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 07:46	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 07:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 07:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 07:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 07:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 07:46	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 07:46	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 07:46	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 07:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	80-122	1		05/09/19 07:46	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	85-114	1		05/09/19 07:46	460-00-4	
Toluene-d8 (S)	97	%.	85-114	1		05/09/19 07:46	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-4(14-10) GW		Lab ID: 50224152014	Collected: 05/07/19 12:13	Received: 05/07/19 17:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 08:19	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 08:19	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 08:19	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 08:19	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 08:19	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 08:19	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 08:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 08:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 08:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 08:19	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 08:19	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 08:19	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 08:19	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 08:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 08:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 08:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 08:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 08:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 08:19	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 08:19	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 08:19	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 08:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 08:19	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 08:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 08:19	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 08:19	75-71-8	
1,1-Dichloroethane	140	ug/L	5.0	1		05/09/19 08:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 08:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 08:19	75-35-4	
cis-1,2-Dichloroethene	23.0	ug/L	5.0	1		05/09/19 08:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 08:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 08:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 08:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 08:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 08:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 08:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 08:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 08:19	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 08:19	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 08:19	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 08:19	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 08:19	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 08:19	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 08:19	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-4(14-10) GW	Lab ID: 50224152014	Collected: 05/07/19 12:13	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 08:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 08:19	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 08:19	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 08:19	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 08:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 08:19	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 08:19	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 08:19	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 08:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 08:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 08:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 08:19	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 08:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:19	120-82-1	
1,1,1-Trichloroethane	256	ug/L	5.0	1		05/09/19 08:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 08:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 08:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 08:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 08:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 08:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 08:19	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 08:19	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 08:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 08:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	80-122	1		05/09/19 08:19	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	85-114	1		05/09/19 08:19	460-00-4	
Toluene-d8 (S)	96	%.	85-114	1		05/09/19 08:19	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-5(18-14) GW	Lab ID: 50224152015	Collected: 05/07/19 13:51	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 08:51	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 08:51	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 08:51	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 08:51	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 08:51	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 08:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 08:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 08:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 08:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 08:51	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 08:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 08:51	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 08:51	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 08:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 08:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 08:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 08:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 08:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 08:51	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 08:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 08:51	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 08:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 08:51	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 08:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 08:51	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 08:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 08:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 08:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 08:51	75-35-4	
cis-1,2-Dichloroethene	6.3	ug/L	5.0	1		05/09/19 08:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 08:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 08:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 08:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 08:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 08:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 08:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 08:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 08:51	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 08:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 08:51	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 08:51	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 08:51	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 08:51	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 08:51	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-5(18-14) GW	Lab ID: 50224152015	Collected: 05/07/19 13:51	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 08:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 08:51	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 08:51	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 08:51	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 08:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 08:51	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 08:51	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 08:51	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 08:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 08:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 08:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 08:51	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 08:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 08:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 08:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 08:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 08:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 08:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 08:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 08:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 08:51	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 08:51	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 08:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 08:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	80-122	1		05/09/19 08:51	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	85-114	1		05/09/19 08:51	460-00-4	
Toluene-d8 (S)	97	%.	85-114	1		05/09/19 08:51	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-6(15-11) GW	Lab ID: 50224152016	Collected: 05/07/19 16:21	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 06:57	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 06:57	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 06:57	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 06:57	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 06:57	108-86-1	L1
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 06:57	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 06:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 06:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 06:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 06:57	78-93-3	L1
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:57	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:57	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 06:57	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 06:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 06:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 06:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 06:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 06:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 06:57	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:57	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 06:57	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 06:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 06:57	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 06:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 06:57	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 06:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 06:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 06:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 06:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 06:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 06:57	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 06:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 06:57	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 06:57	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 06:57	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 06:57	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 06:57	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: SB-6(15-11) GW	Lab ID: 50224152016	Collected: 05/07/19 16:21	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 06:57	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 06:57	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:57	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 06:57	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 06:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 06:57	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 06:57	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 06:57	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 06:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 06:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 06:57	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 06:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 06:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:57	71-55-6	L1
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 06:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 06:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 06:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 06:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 06:57	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 06:57	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 06:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 06:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	80-122	1		05/09/19 06:57	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	85-114	1		05/09/19 06:57	460-00-4	
Toluene-d8 (S)	97	%.	85-114	1		05/09/19 06:57	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: TB-2 (050719)	Lab ID: 50224152017	Collected: 05/07/19 08:00	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/09/19 07:30	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/09/19 07:30	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/09/19 07:30	107-13-1	
Benzene	ND	ug/L	5.0	1		05/09/19 07:30	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/09/19 07:30	108-86-1	L1
Bromochloromethane	ND	ug/L	5.0	1		05/09/19 07:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/09/19 07:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/09/19 07:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/09/19 07:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/09/19 07:30	78-93-3	L1
n-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:30	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:30	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/09/19 07:30	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/09/19 07:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/09/19 07:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/09/19 07:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/09/19 07:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/09/19 07:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/09/19 07:30	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 07:30	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/09/19 07:30	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/09/19 07:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/09/19 07:30	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/09/19 07:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/09/19 07:30	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/09/19 07:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/09/19 07:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/09/19 07:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/09/19 07:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/09/19 07:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/09/19 07:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/09/19 07:30	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/09/19 07:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/09/19 07:30	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/09/19 07:30	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/09/19 07:30	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/09/19 07:30	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/09/19 07:30	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224152

Sample: TB-2 (050719)	Lab ID: 50224152017	Collected: 05/07/19 08:00	Received: 05/07/19 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/09/19 07:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/09/19 07:30	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 07:30	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/09/19 07:30	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/09/19 07:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/09/19 07:30	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/09/19 07:30	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/09/19 07:30	103-65-1	
Styrene	ND	ug/L	5.0	1		05/09/19 07:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 07:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/09/19 07:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/09/19 07:30	127-18-4	
Toluene	ND	ug/L	5.0	1		05/09/19 07:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/09/19 07:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/09/19 07:30	71-55-6	L1
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/09/19 07:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/09/19 07:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/09/19 07:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/09/19 07:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 07:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/09/19 07:30	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/09/19 07:30	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/09/19 07:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/09/19 07:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	80-122	1		05/09/19 07:30	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	85-114	1		05/09/19 07:30	460-00-4	
Toluene-d8 (S)	96	%.	85-114	1		05/09/19 07:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

QC Batch: 499188

Analysis Method: EPA 5030/8260

QC Batch Method: EPA 5030/8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50224152016, 50224152017

METHOD BLANK: 2302744

Matrix: Water

Associated Lab Samples: 50224152016, 50224152017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/09/19 00:24	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/09/19 00:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/09/19 00:24	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/09/19 00:24	
1,1-Dichloroethane	ug/L	ND	5.0	05/09/19 00:24	
1,1-Dichloroethene	ug/L	ND	5.0	05/09/19 00:24	
1,1-Dichloropropene	ug/L	ND	5.0	05/09/19 00:24	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/09/19 00:24	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/09/19 00:24	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/09/19 00:24	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/09/19 00:24	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/09/19 00:24	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/09/19 00:24	
1,2-Dichloroethane	ug/L	ND	5.0	05/09/19 00:24	
1,2-Dichloropropane	ug/L	ND	5.0	05/09/19 00:24	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/09/19 00:24	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/09/19 00:24	
1,3-Dichloropropane	ug/L	ND	5.0	05/09/19 00:24	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/09/19 00:24	
1-Methylnaphthalene	ug/L	ND	10.0	05/09/19 00:24	N2
2,2-Dichloropropane	ug/L	ND	5.0	05/09/19 00:24	
2-Butanone (MEK)	ug/L	ND	25.0	05/09/19 00:24	
2-Chlorotoluene	ug/L	ND	5.0	05/09/19 00:24	
2-Hexanone	ug/L	ND	25.0	05/09/19 00:24	
2-Methylnaphthalene	ug/L	ND	10.0	05/09/19 00:24	
4-Chlorotoluene	ug/L	ND	5.0	05/09/19 00:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/09/19 00:24	
Acetone	ug/L	ND	100	05/09/19 00:24	
Acrolein	ug/L	ND	50.0	05/09/19 00:24	
Acrylonitrile	ug/L	ND	100	05/09/19 00:24	
Benzene	ug/L	ND	5.0	05/09/19 00:24	
Bromobenzene	ug/L	ND	5.0	05/09/19 00:24	
Bromochloromethane	ug/L	ND	5.0	05/09/19 00:24	
Bromodichloromethane	ug/L	ND	5.0	05/09/19 00:24	
Bromoform	ug/L	ND	5.0	05/09/19 00:24	
Bromomethane	ug/L	ND	5.0	05/09/19 00:24	
Carbon disulfide	ug/L	ND	10.0	05/09/19 00:24	
Carbon tetrachloride	ug/L	ND	5.0	05/09/19 00:24	
Chlorobenzene	ug/L	ND	5.0	05/09/19 00:24	
Chloroethane	ug/L	ND	5.0	05/09/19 00:24	
Chloroform	ug/L	ND	5.0	05/09/19 00:24	

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.

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

METHOD BLANK: 2302744

Matrix: Water

Associated Lab Samples: 50224152016, 50224152017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	05/09/19 00:24	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/09/19 00:24	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/09/19 00:24	
Dibromochloromethane	ug/L	ND	5.0	05/09/19 00:24	
Dibromomethane	ug/L	ND	5.0	05/09/19 00:24	
Dichlorodifluoromethane	ug/L	ND	5.0	05/09/19 00:24	
Ethyl methacrylate	ug/L	ND	100	05/09/19 00:24	
Ethylbenzene	ug/L	ND	5.0	05/09/19 00:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/09/19 00:24	
Iodomethane	ug/L	ND	10.0	05/09/19 00:24	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/09/19 00:24	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/09/19 00:24	
Methylene Chloride	ug/L	ND	5.0	05/09/19 00:24	
n-Butylbenzene	ug/L	ND	5.0	05/09/19 00:24	
n-Hexane	ug/L	ND	5.0	05/09/19 00:24	
n-Propylbenzene	ug/L	ND	5.0	05/09/19 00:24	
Naphthalene	ug/L	ND	1.7	05/09/19 00:24	
p-Isopropyltoluene	ug/L	ND	5.0	05/09/19 00:24	
sec-Butylbenzene	ug/L	ND	5.0	05/09/19 00:24	
Styrene	ug/L	ND	5.0	05/09/19 00:24	
tert-Butylbenzene	ug/L	ND	5.0	05/09/19 00:24	
Tetrachloroethene	ug/L	ND	5.0	05/09/19 00:24	
Toluene	ug/L	ND	5.0	05/09/19 00:24	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/09/19 00:24	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/09/19 00:24	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/09/19 00:24	
Trichloroethene	ug/L	ND	5.0	05/09/19 00:24	
Trichlorofluoromethane	ug/L	ND	5.0	05/09/19 00:24	
Vinyl acetate	ug/L	ND	50.0	05/09/19 00:24	
Vinyl chloride	ug/L	ND	2.0	05/09/19 00:24	
Xylene (Total)	ug/L	ND	10.0	05/09/19 00:24	
4-Bromofluorobenzene (S)	%	97	85-114	05/09/19 00:24	
Dibromofluoromethane (S)	%	102	80-122	05/09/19 00:24	
Toluene-d8 (S)	%	96	85-114	05/09/19 00:24	

LABORATORY CONTROL SAMPLE: 2302745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	78-120	
1,1,1-Trichloroethane	ug/L	50	64.5	129	72-127	L1
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	70-124	
1,1,2-Trichloroethane	ug/L	50	58.0	116	79-121	
1,1-Dichloroethane	ug/L	50	53.1	106	70-119	
1,1-Dichloroethene	ug/L	50	59.4	119	71-126	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

LABORATORY CONTROL SAMPLE: 2302745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	57.0	114	76-122	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	71-126	
1,2,3-Trichloropropane	ug/L	50	53.0	106	75-119	
1,2,4-Trichlorobenzene	ug/L	50	58.6	117	68-130	
1,2,4-Trimethylbenzene	ug/L	50	54.5	109	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	81-119	
1,2-Dichlorobenzene	ug/L	50	50.0	100	78-114	
1,2-Dichloroethane	ug/L	50	55.4	111	68-119	
1,2-Dichloropropane	ug/L	50	54.6	109	79-126	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	78-118	
1,3-Dichlorobenzene	ug/L	50	49.9	100	77-114	
1,3-Dichloropropane	ug/L	50	53.3	107	82-124	
1,4-Dichlorobenzene	ug/L	50	49.9	100	77-111	
1-Methylnaphthalene	ug/L	50	64.4	129	60-140	N2
2,2-Dichloropropane	ug/L	50	44.9	90	53-137	
2-Butanone (MEK)	ug/L	250	374	150	62-140	L1
2-Chlorotoluene	ug/L	50	52.6	105	76-120	
2-Hexanone	ug/L	250	290	116	62-143	
2-Methylnaphthalene	ug/L	50	50.2	100	60-133	
4-Chlorotoluene	ug/L	50	50.5	101	78-114	
4-Methyl-2-pentanone (MIBK)	ug/L	250	281	112	60-143	
Acetone	ug/L	250	387	155	44-156	
Acrolein	ug/L	1000	1070	107	17-189	
Acrylonitrile	ug/L	200	253	127	58-139	
Benzene	ug/L	50	51.8	104	78-117	
Bromobenzene	ug/L	50	60.3	121	76-114	L1
Bromochloromethane	ug/L	50	54.6	109	70-122	
Bromodichloromethane	ug/L	50	56.4	113	72-121	
Bromoform	ug/L	50	46.5	93	66-117	
Bromomethane	ug/L	50	33.4	67	20-176	
Carbon disulfide	ug/L	50	55.7	111	65-124	
Carbon tetrachloride	ug/L	50	53.2	106	68-132	
Chlorobenzene	ug/L	50	52.0	104	79-113	
Chloroethane	ug/L	50	57.8	116	62-140	
Chloroform	ug/L	50	56.0	112	73-118	
Chloromethane	ug/L	50	44.8	90	36-132	
cis-1,2-Dichloroethene	ug/L	50	57.4	115	74-122	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	79-126	
Dibromochloromethane	ug/L	50	50.7	101	75-121	
Dibromomethane	ug/L	50	53.5	107	75-123	
Dichlorodifluoromethane	ug/L	50	64.8	130	27-172	
Ethyl methacrylate	ug/L	200	228	114	72-134	
Ethylbenzene	ug/L	50	53.0	106	80-118	
Hexachloro-1,3-butadiene	ug/L	50	50.3	101	71-141	
Iodomethane	ug/L	100	107	107	10-186	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	82-120	
Methyl-tert-butyl ether	ug/L	50	56.3	113	72-128	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

LABORATORY CONTROL SAMPLE: 2302745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	53.0	106	70-121	
n-Butylbenzene	ug/L	50	47.1	94	76-123	
n-Hexane	ug/L	50	51.6	103	58-149	
n-Propylbenzene	ug/L	50	52.8	106	80-122	
Naphthalene	ug/L	50	55.3	111	71-121	
p-Isopropyltoluene	ug/L	50	49.9	100	79-121	
sec-Butylbenzene	ug/L	50	50.0	100	78-124	
Styrene	ug/L	50	52.9	106	80-119	
tert-Butylbenzene	ug/L	50	39.8	80	62-102	
Tetrachloroethene	ug/L	50	52.0	104	76-124	
Toluene	ug/L	50	52.3	105	78-116	
trans-1,2-Dichloroethene	ug/L	50	59.6	119	73-121	
trans-1,3-Dichloropropene	ug/L	50	53.3	107	73-126	
trans-1,4-Dichloro-2-butene	ug/L	200	183	91	42-138	
Trichloroethene	ug/L	50	58.0	116	76-120	
Trichlorofluoromethane	ug/L	50	66.0	132	60-138	
Vinyl acetate	ug/L	200	186	93	29-200	
Vinyl chloride	ug/L	50	56.3	113	70-136	
Xylene (Total)	ug/L	150	162	108	79-119	
4-Bromofluorobenzene (S)	%			99	85-114	
Dibromofluoromethane (S)	%			97	80-122	
Toluene-d8 (S)	%			99	85-114	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224152

QC Batch: 499192 Analysis Method: EPA 5030/8260
QC Batch Method: EPA 5030/8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50224152010, 50224152011, 50224152012, 50224152013, 50224152014, 50224152015

METHOD BLANK: 2302765 Matrix: Water
Associated Lab Samples: 50224152010, 50224152011, 50224152012, 50224152013, 50224152014, 50224152015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/09/19 00:40	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/09/19 00:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/09/19 00:40	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/09/19 00:40	
1,1-Dichloroethane	ug/L	ND	5.0	05/09/19 00:40	
1,1-Dichloroethene	ug/L	ND	5.0	05/09/19 00:40	
1,1-Dichloropropene	ug/L	ND	5.0	05/09/19 00:40	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/09/19 00:40	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/09/19 00:40	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/09/19 00:40	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/09/19 00:40	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/09/19 00:40	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/09/19 00:40	
1,2-Dichloroethane	ug/L	ND	5.0	05/09/19 00:40	
1,2-Dichloropropane	ug/L	ND	5.0	05/09/19 00:40	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/09/19 00:40	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/09/19 00:40	
1,3-Dichloropropane	ug/L	ND	5.0	05/09/19 00:40	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/09/19 00:40	
1-Methylnaphthalene	ug/L	ND	10.0	05/09/19 00:40	N2
2,2-Dichloropropane	ug/L	ND	5.0	05/09/19 00:40	
2-Butanone (MEK)	ug/L	ND	25.0	05/09/19 00:40	
2-Chlorotoluene	ug/L	ND	5.0	05/09/19 00:40	
2-Hexanone	ug/L	ND	25.0	05/09/19 00:40	
2-Methylnaphthalene	ug/L	ND	10.0	05/09/19 00:40	
4-Chlorotoluene	ug/L	ND	5.0	05/09/19 00:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/09/19 00:40	
Acetone	ug/L	ND	100	05/09/19 00:40	
Acrolein	ug/L	ND	50.0	05/09/19 00:40	
Acrylonitrile	ug/L	ND	100	05/09/19 00:40	
Benzene	ug/L	ND	5.0	05/09/19 00:40	
Bromobenzene	ug/L	ND	5.0	05/09/19 00:40	
Bromochloromethane	ug/L	ND	5.0	05/09/19 00:40	
Bromodichloromethane	ug/L	ND	5.0	05/09/19 00:40	
Bromoform	ug/L	ND	5.0	05/09/19 00:40	
Bromomethane	ug/L	ND	5.0	05/09/19 00:40	
Carbon disulfide	ug/L	ND	10.0	05/09/19 00:40	
Carbon tetrachloride	ug/L	ND	5.0	05/09/19 00:40	
Chlorobenzene	ug/L	ND	5.0	05/09/19 00:40	
Chloroethane	ug/L	ND	5.0	05/09/19 00:40	
Chloroform	ug/L	ND	5.0	05/09/19 00:40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

METHOD BLANK: 2302765

Matrix: Water

Associated Lab Samples: 50224152010, 50224152011, 50224152012, 50224152013, 50224152014, 50224152015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	05/09/19 00:40	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/09/19 00:40	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/09/19 00:40	
Dibromochloromethane	ug/L	ND	5.0	05/09/19 00:40	
Dibromomethane	ug/L	ND	5.0	05/09/19 00:40	
Dichlorodifluoromethane	ug/L	ND	5.0	05/09/19 00:40	
Ethyl methacrylate	ug/L	ND	100	05/09/19 00:40	
Ethylbenzene	ug/L	ND	5.0	05/09/19 00:40	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/09/19 00:40	
Iodomethane	ug/L	ND	10.0	05/09/19 00:40	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/09/19 00:40	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/09/19 00:40	
Methylene Chloride	ug/L	ND	5.0	05/09/19 00:40	
n-Butylbenzene	ug/L	ND	5.0	05/09/19 00:40	
n-Hexane	ug/L	ND	5.0	05/09/19 00:40	
n-Propylbenzene	ug/L	ND	5.0	05/09/19 00:40	
Naphthalene	ug/L	ND	1.7	05/09/19 00:40	
p-Isopropyltoluene	ug/L	ND	5.0	05/09/19 00:40	
sec-Butylbenzene	ug/L	ND	5.0	05/09/19 00:40	
Styrene	ug/L	ND	5.0	05/09/19 00:40	
tert-Butylbenzene	ug/L	ND	5.0	05/09/19 00:40	
Tetrachloroethene	ug/L	ND	5.0	05/09/19 00:40	
Toluene	ug/L	ND	5.0	05/09/19 00:40	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/09/19 00:40	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/09/19 00:40	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/09/19 00:40	
Trichloroethene	ug/L	ND	5.0	05/09/19 00:40	
Trichlorofluoromethane	ug/L	ND	5.0	05/09/19 00:40	
Vinyl acetate	ug/L	ND	50.0	05/09/19 00:40	
Vinyl chloride	ug/L	ND	2.0	05/09/19 00:40	
Xylene (Total)	ug/L	ND	10.0	05/09/19 00:40	
4-Bromofluorobenzene (S)	%	101	85-114	05/09/19 00:40	
Dibromofluoromethane (S)	%	100	80-122	05/09/19 00:40	
Toluene-d8 (S)	%	98	85-114	05/09/19 00:40	

LABORATORY CONTROL SAMPLE: 2302766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	78-120	
1,1,1-Trichloroethane	ug/L	50	52.6	105	72-127	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-124	
1,1,2-Trichloroethane	ug/L	50	50.9	102	79-121	
1,1-Dichloroethane	ug/L	50	48.9	98	70-119	
1,1-Dichloroethene	ug/L	50	54.4	109	71-126	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

LABORATORY CONTROL SAMPLE: 2302766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	52.3	105	76-122	
1,2,3-Trichlorobenzene	ug/L	50	54.6	109	71-126	
1,2,3-Trichloropropane	ug/L	50	54.3	109	75-119	
1,2,4-Trichlorobenzene	ug/L	50	53.7	107	68-130	
1,2,4-Trimethylbenzene	ug/L	50	46.2	92	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	53.9	108	81-119	
1,2-Dichlorobenzene	ug/L	50	49.7	99	78-114	
1,2-Dichloroethane	ug/L	50	50.0	100	68-119	
1,2-Dichloropropane	ug/L	50	51.7	103	79-126	
1,3,5-Trimethylbenzene	ug/L	50	45.6	91	78-118	
1,3-Dichlorobenzene	ug/L	50	47.5	95	77-114	
1,3-Dichloropropane	ug/L	50	49.0	98	82-124	
1,4-Dichlorobenzene	ug/L	50	47.2	94	77-111	
1-Methylnaphthalene	ug/L	50	63.3	127	60-140	N2
2,2-Dichloropropane	ug/L	50	41.2	82	53-137	
2-Butanone (MEK)	ug/L	250	295	118	62-140	
2-Chlorotoluene	ug/L	50	45.9	92	76-120	
2-Hexanone	ug/L	250	243	97	62-143	
2-Methylnaphthalene	ug/L	50	54.7	109	60-133	
4-Chlorotoluene	ug/L	50	47.1	94	78-114	
4-Methyl-2-pentanone (MIBK)	ug/L	250	244	97	60-143	
Acetone	ug/L	250	285	114	44-156	
Acrolein	ug/L	1000	1020	102	17-189	
Acrylonitrile	ug/L	200	205	103	58-139	
Benzene	ug/L	50	45.8	92	78-117	
Bromobenzene	ug/L	50	50.1	100	76-114	
Bromochloromethane	ug/L	50	53.3	107	70-122	
Bromodichloromethane	ug/L	50	51.9	104	72-121	
Bromoform	ug/L	50	42.0	84	66-117	
Bromomethane	ug/L	50	50.4	101	20-176	
Carbon disulfide	ug/L	50	47.4	95	65-124	
Carbon tetrachloride	ug/L	50	48.3	97	68-132	
Chlorobenzene	ug/L	50	46.2	92	79-113	
Chloroethane	ug/L	50	55.3	111	62-140	
Chloroform	ug/L	50	50.3	101	73-118	
Chloromethane	ug/L	50	44.2	88	36-132	
cis-1,2-Dichloroethene	ug/L	50	53.3	107	74-122	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	79-126	
Dibromochloromethane	ug/L	50	53.2	106	75-121	
Dibromomethane	ug/L	50	52.5	105	75-123	
Dichlorodifluoromethane	ug/L	50	58.8	118	27-172	
Ethyl methacrylate	ug/L	200	209	105	72-134	
Ethylbenzene	ug/L	50	45.9	92	80-118	
Hexachloro-1,3-butadiene	ug/L	50	46.5	93	71-141	
Iodomethane	ug/L	100	117	117	10-186	
Isopropylbenzene (Cumene)	ug/L	50	47.0	94	82-120	
Methyl-tert-butyl ether	ug/L	50	54.2	108	72-128	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

LABORATORY CONTROL SAMPLE: 2302766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	50.1	100	70-121	
n-Butylbenzene	ug/L	50	45.0	90	76-123	
n-Hexane	ug/L	50	45.9	92	58-149	
n-Propylbenzene	ug/L	50	43.9	88	80-122	
Naphthalene	ug/L	50	53.7	107	71-121	
p-Isopropyltoluene	ug/L	50	46.4	93	79-121	
sec-Butylbenzene	ug/L	50	46.0	92	78-124	
Styrene	ug/L	50	48.2	96	80-119	
tert-Butylbenzene	ug/L	50	40.8	82	62-102	
Tetrachloroethene	ug/L	50	48.6	97	76-124	
Toluene	ug/L	50	44.1	88	78-116	
trans-1,2-Dichloroethene	ug/L	50	54.4	109	73-121	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	73-126	
trans-1,4-Dichloro-2-butene	ug/L	200	107	53	42-138	
Trichloroethene	ug/L	50	47.6	95	76-120	
Trichlorofluoromethane	ug/L	50	55.2	110	60-138	
Vinyl acetate	ug/L	200	167	84	29-200	
Vinyl chloride	ug/L	50	47.8	96	70-136	
Xylene (Total)	ug/L	150	141	94	79-119	
4-Bromofluorobenzene (S)	%			100	85-114	
Dibromofluoromethane (S)	%			102	80-122	
Toluene-d8 (S)	%			97	85-114	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

QC Batch: 499198

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 50224152001, 50224152002, 50224152003, 50224152004, 50224152005, 50224152006, 50224152007, 50224152008

METHOD BLANK: 2302787

Matrix: Solid

Associated Lab Samples: 50224152001, 50224152002, 50224152003, 50224152004, 50224152005, 50224152006, 50224152007, 50224152008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1-Dichloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,1-Dichloroethene	ug/kg	ND	5.0	05/08/19 11:01	
1,1-Dichloropropene	ug/kg	ND	5.0	05/08/19 11:01	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/08/19 11:01	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/08/19 11:01	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,2-Dichloroethane	ug/kg	ND	5.0	05/08/19 11:01	
1,2-Dichloropropane	ug/kg	ND	5.0	05/08/19 11:01	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1,3-Dichloropropane	ug/kg	ND	5.0	05/08/19 11:01	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
1-Methylnaphthalene	ug/kg	ND	10.0	05/08/19 11:01	N2
2,2-Dichloropropane	ug/kg	ND	5.0	05/08/19 11:01	
2-Butanone (MEK)	ug/kg	ND	25.0	05/08/19 11:01	
2-Chlorotoluene	ug/kg	ND	5.0	05/08/19 11:01	
2-Hexanone	ug/kg	ND	100	05/08/19 11:01	
2-Methylnaphthalene	ug/kg	ND	10.0	05/08/19 11:01	
4-Chlorotoluene	ug/kg	ND	5.0	05/08/19 11:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/08/19 11:01	
Acetone	ug/kg	ND	100	05/08/19 11:01	
Acrolein	ug/kg	ND	100	05/08/19 11:01	
Acrylonitrile	ug/kg	ND	100	05/08/19 11:01	
Benzene	ug/kg	ND	5.0	05/08/19 11:01	
Bromobenzene	ug/kg	ND	5.0	05/08/19 11:01	
Bromochloromethane	ug/kg	ND	5.0	05/08/19 11:01	
Bromodichloromethane	ug/kg	ND	5.0	05/08/19 11:01	
Bromoform	ug/kg	ND	5.0	05/08/19 11:01	
Bromomethane	ug/kg	ND	5.0	05/08/19 11:01	
Carbon disulfide	ug/kg	ND	10.0	05/08/19 11:01	
Carbon tetrachloride	ug/kg	ND	5.0	05/08/19 11:01	
Chlorobenzene	ug/kg	ND	5.0	05/08/19 11:01	
Chloroethane	ug/kg	ND	5.0	05/08/19 11:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

METHOD BLANK: 2302787

Matrix: Solid

Associated Lab Samples: 50224152001, 50224152002, 50224152003, 50224152004, 50224152005, 50224152006, 50224152007, 50224152008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/kg	ND	5.0	05/08/19 11:01	
Chloromethane	ug/kg	ND	5.0	05/08/19 11:01	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/08/19 11:01	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/08/19 11:01	
Dibromochloromethane	ug/kg	ND	5.0	05/08/19 11:01	
Dibromomethane	ug/kg	ND	5.0	05/08/19 11:01	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/08/19 11:01	
Ethyl methacrylate	ug/kg	ND	100	05/08/19 11:01	
Ethylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/08/19 11:01	
Iodomethane	ug/kg	ND	100	05/08/19 11:01	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/08/19 11:01	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/08/19 11:01	
Methylene Chloride	ug/kg	ND	20.0	05/08/19 11:01	
n-Butylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
n-Hexane	ug/kg	ND	5.0	05/08/19 11:01	
n-Propylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
Naphthalene	ug/kg	ND	5.0	05/08/19 11:01	
p-Isopropyltoluene	ug/kg	ND	5.0	05/08/19 11:01	
sec-Butylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
Styrene	ug/kg	ND	5.0	05/08/19 11:01	
tert-Butylbenzene	ug/kg	ND	5.0	05/08/19 11:01	
Tetrachloroethene	ug/kg	ND	5.0	05/08/19 11:01	
Toluene	ug/kg	ND	5.0	05/08/19 11:01	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/08/19 11:01	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/08/19 11:01	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/08/19 11:01	
Trichloroethene	ug/kg	ND	5.0	05/08/19 11:01	
Trichlorofluoromethane	ug/kg	ND	5.0	05/08/19 11:01	
Vinyl acetate	ug/kg	ND	100	05/08/19 11:01	
Vinyl chloride	ug/kg	ND	5.0	05/08/19 11:01	
Xylene (Total)	ug/kg	ND	10.0	05/08/19 11:01	
4-Bromofluorobenzene (S)	%	98	65-119	05/08/19 11:01	
Dibromofluoromethane (S)	%	98	77-131	05/08/19 11:01	
Toluene-d8 (S)	%	93	77-127	05/08/19 11:01	

LABORATORY CONTROL SAMPLE: 2302788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	48.4	97	81-122	
1,1,1-Trichloroethane	ug/kg	50	46.8	94	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	49.0	98	70-124	
1,1,2-Trichloroethane	ug/kg	50	50.9	102	77-122	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

LABORATORY CONTROL SAMPLE: 2302788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/kg	50	50.3	101	69-116	
1,1-Dichloroethene	ug/kg	50	53.7	107	70-127	
1,1-Dichloropropene	ug/kg	50	47.8	96	72-122	
1,2,3-Trichlorobenzene	ug/kg	50	45.4	91	56-118	
1,2,3-Trichloropropane	ug/kg	50	47.5	95	71-124	
1,2,4-Trichlorobenzene	ug/kg	50	47.3	95	50-123	
1,2,4-Trimethylbenzene	ug/kg	50	48.9	98	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	49.4	99	77-126	
1,2-Dichlorobenzene	ug/kg	50	47.2	94	73-115	
1,2-Dichloroethane	ug/kg	50	46.1	92	72-120	
1,2-Dichloropropane	ug/kg	50	50.7	101	77-125	
1,3,5-Trimethylbenzene	ug/kg	50	49.4	99	69-114	
1,3-Dichlorobenzene	ug/kg	50	47.2	94	66-115	
1,3-Dichloropropane	ug/kg	50	48.9	98	82-122	
1,4-Dichlorobenzene	ug/kg	50	45.7	91	66-114	
1-Methylnaphthalene	ug/kg	50	52.6	105	52-128	N2
2,2-Dichloropropane	ug/kg	50	49.3	99	60-126	
2-Butanone (MEK)	ug/kg	250	338	135	57-145	
2-Chlorotoluene	ug/kg	50	50.0	100	71-117	
2-Hexanone	ug/kg	250	295	118	64-127	
2-Methylnaphthalene	ug/kg	50	55.4	111	43-126	
4-Chlorotoluene	ug/kg	50	46.7	93	67-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	229	91	60-123	
Acetone	ug/kg	250	490	196	33-174	L1
Acrolein	ug/kg	1000	1260	126	11-200	
Acrylonitrile	ug/kg	200	198	99	64-123	
Benzene	ug/kg	50	49.7	99	74-119	
Bromobenzene	ug/kg	50	48.2	96	73-114	
Bromochloromethane	ug/kg	50	46.6	93	70-118	
Bromodichloromethane	ug/kg	50	47.8	96	73-120	
Bromoform	ug/kg	50	47.2	94	65-118	
Bromomethane	ug/kg	50	67.6	135	37-160	
Carbon disulfide	ug/kg	50	54.8	110	65-123	
Carbon tetrachloride	ug/kg	50	45.2	90	71-125	
Chlorobenzene	ug/kg	50	45.8	92	76-113	
Chloroethane	ug/kg	50	63.0	126	59-148	
Chloroform	ug/kg	50	46.5	93	71-117	
Chloromethane	ug/kg	50	44.3	89	49-112	
cis-1,2-Dichloroethene	ug/kg	50	51.9	104	70-122	
cis-1,3-Dichloropropene	ug/kg	50	50.8	102	75-120	
Dibromochloromethane	ug/kg	50	46.6	93	78-121	
Dibromomethane	ug/kg	50	48.4	97	75-125	
Dichlorodifluoromethane	ug/kg	50	58.8	118	34-163	
Ethyl methacrylate	ug/kg	200	224	112	63-132	
Ethylbenzene	ug/kg	50	49.0	98	73-118	
Hexachloro-1,3-butadiene	ug/kg	50	48.5	97	61-121	
Iodomethane	ug/kg	100	113	113	71-143	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

LABORATORY CONTROL SAMPLE: 2302788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/kg	50	50.1	100	74-121	
Methyl-tert-butyl ether	ug/kg	50	53.2	106	74-131	
Methylene Chloride	ug/kg	50	55.5	111	67-128	
n-Butylbenzene	ug/kg	50	47.4	95	61-116	
n-Hexane	ug/kg	50	48.6	97	59-119	
n-Propylbenzene	ug/kg	50	50.4	101	70-115	
Naphthalene	ug/kg	50	52.4	105	63-123	
p-Isopropyltoluene	ug/kg	50	48.6	97	68-117	
sec-Butylbenzene	ug/kg	50	50.5	101	72-117	
Styrene	ug/kg	50	51.4	103	75-120	
tert-Butylbenzene	ug/kg	50	43.7	87	55-100	
Tetrachloroethene	ug/kg	50	44.2	88	70-116	
Toluene	ug/kg	50	45.8	92	72-112	
trans-1,2-Dichloroethene	ug/kg	50	51.7	103	70-120	
trans-1,3-Dichloropropene	ug/kg	50	47.3	95	67-119	
trans-1,4-Dichloro-2-butene	ug/kg	200	173	86	57-124	
Trichloroethene	ug/kg	50	47.1	94	74-120	
Trichlorofluoromethane	ug/kg	50	48.8	98	59-139	
Vinyl acetate	ug/kg	200	171	86	70-134	
Vinyl chloride	ug/kg	50	59.1	118	58-133	
Xylene (Total)	ug/kg	150	147	98	71-119	
4-Bromofluorobenzene (S)	%			101	65-119	
Dibromofluoromethane (S)	%			98	77-131	
Toluene-d8 (S)	%			95	77-127	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

QC Batch: 499460

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 50224152009

METHOD BLANK: 2304092

Matrix: Solid

Associated Lab Samples: 50224152009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/09/19 23:34	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/09/19 23:34	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/09/19 23:34	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/09/19 23:34	
1,1-Dichloroethane	ug/kg	ND	5.0	05/09/19 23:34	
1,1-Dichloroethene	ug/kg	ND	5.0	05/09/19 23:34	
1,1-Dichloropropene	ug/kg	ND	5.0	05/09/19 23:34	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/09/19 23:34	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/09/19 23:34	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/09/19 23:34	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/09/19 23:34	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/09/19 23:34	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/09/19 23:34	
1,2-Dichloroethane	ug/kg	ND	5.0	05/09/19 23:34	
1,2-Dichloropropane	ug/kg	ND	5.0	05/09/19 23:34	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/09/19 23:34	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/09/19 23:34	
1,3-Dichloropropane	ug/kg	ND	5.0	05/09/19 23:34	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/09/19 23:34	
1-Methylnaphthalene	ug/kg	ND	10.0	05/09/19 23:34	N2
2,2-Dichloropropane	ug/kg	ND	5.0	05/09/19 23:34	
2-Butanone (MEK)	ug/kg	ND	25.0	05/09/19 23:34	
2-Chlorotoluene	ug/kg	ND	5.0	05/09/19 23:34	
2-Hexanone	ug/kg	ND	100	05/09/19 23:34	
2-Methylnaphthalene	ug/kg	ND	10.0	05/09/19 23:34	
4-Chlorotoluene	ug/kg	ND	5.0	05/09/19 23:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/09/19 23:34	
Acetone	ug/kg	ND	100	05/09/19 23:34	
Acrolein	ug/kg	ND	100	05/09/19 23:34	
Acrylonitrile	ug/kg	ND	100	05/09/19 23:34	
Benzene	ug/kg	ND	5.0	05/09/19 23:34	
Bromobenzene	ug/kg	ND	5.0	05/09/19 23:34	
Bromochloromethane	ug/kg	ND	5.0	05/09/19 23:34	
Bromodichloromethane	ug/kg	ND	5.0	05/09/19 23:34	
Bromoform	ug/kg	ND	5.0	05/09/19 23:34	
Bromomethane	ug/kg	ND	5.0	05/09/19 23:34	
Carbon disulfide	ug/kg	ND	10.0	05/09/19 23:34	
Carbon tetrachloride	ug/kg	ND	5.0	05/09/19 23:34	
Chlorobenzene	ug/kg	ND	5.0	05/09/19 23:34	
Chloroethane	ug/kg	ND	5.0	05/09/19 23:34	
Chloroform	ug/kg	ND	5.0	05/09/19 23:34	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

METHOD BLANK: 2304092

Matrix: Solid

Associated Lab Samples: 50224152009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	05/09/19 23:34	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/09/19 23:34	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/09/19 23:34	
Dibromochloromethane	ug/kg	ND	5.0	05/09/19 23:34	
Dibromomethane	ug/kg	ND	5.0	05/09/19 23:34	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/09/19 23:34	
Ethyl methacrylate	ug/kg	ND	100	05/09/19 23:34	
Ethylbenzene	ug/kg	ND	5.0	05/09/19 23:34	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/09/19 23:34	
Iodomethane	ug/kg	ND	100	05/09/19 23:34	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/09/19 23:34	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/09/19 23:34	
Methylene Chloride	ug/kg	ND	20.0	05/09/19 23:34	
n-Butylbenzene	ug/kg	ND	5.0	05/09/19 23:34	
n-Hexane	ug/kg	ND	5.0	05/09/19 23:34	
n-Propylbenzene	ug/kg	ND	5.0	05/09/19 23:34	
Naphthalene	ug/kg	ND	5.0	05/09/19 23:34	
p-Isopropyltoluene	ug/kg	ND	5.0	05/09/19 23:34	
sec-Butylbenzene	ug/kg	ND	5.0	05/09/19 23:34	
Styrene	ug/kg	ND	5.0	05/09/19 23:34	
tert-Butylbenzene	ug/kg	ND	5.0	05/09/19 23:34	
Tetrachloroethene	ug/kg	ND	5.0	05/09/19 23:34	
Toluene	ug/kg	ND	5.0	05/09/19 23:34	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/09/19 23:34	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/09/19 23:34	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/09/19 23:34	
Trichloroethene	ug/kg	ND	5.0	05/09/19 23:34	
Trichlorofluoromethane	ug/kg	ND	5.0	05/09/19 23:34	
Vinyl acetate	ug/kg	ND	100	05/09/19 23:34	
Vinyl chloride	ug/kg	ND	5.0	05/09/19 23:34	
Xylene (Total)	ug/kg	ND	10.0	05/09/19 23:34	
4-Bromofluorobenzene (S)	%	102	65-119	05/09/19 23:34	
Dibromofluoromethane (S)	%	101	77-131	05/09/19 23:34	
Toluene-d8 (S)	%	97	77-127	05/09/19 23:34	

LABORATORY CONTROL SAMPLE: 2304093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	45.5	91	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	54.8	110	70-124	
1,1-Dichloroethene	ug/kg	50	50.3	101	70-127	
1,2,4-Trimethylbenzene	ug/kg	50	46.4	93	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	51.3	103	77-126	
1,2-Dichloroethane	ug/kg	50	46.0	92	72-120	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

LABORATORY CONTROL SAMPLE: 2304093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/kg	50	49.9	100	77-125	
Benzene	ug/kg	50	47.1	94	74-119	
Chlorobenzene	ug/kg	50	44.9	90	76-113	
Chloroform	ug/kg	50	45.0	90	71-117	
cis-1,2-Dichloroethene	ug/kg	50	49.7	99	70-122	
Ethylbenzene	ug/kg	50	46.6	93	73-118	
Isopropylbenzene (Cumene)	ug/kg	50	46.5	93	74-121	
Methyl-tert-butyl ether	ug/kg	50	53.3	107	74-131	
Naphthalene	ug/kg	50	57.0	114	63-123	
Tetrachloroethene	ug/kg	50	40.9	82	70-116	
Toluene	ug/kg	50	45.0	90	72-112	
trans-1,2-Dichloroethene	ug/kg	50	49.0	98	70-120	
Trichloroethene	ug/kg	50	43.9	88	74-120	
Vinyl chloride	ug/kg	50	53.1	106	58-133	
Xylene (Total)	ug/kg	150	139	92	71-119	
4-Bromofluorobenzene (S)	%			102	65-119	
Dibromofluoromethane (S)	%			100	77-131	
Toluene-d8 (S)	%			98	77-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2304094 2304095

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		50224233008 Result	Spike Conc.	Spike Conc.	MSD Result							
1,1,1-Trichloroethane	ug/kg	ND	80.1	66.5	80.8	63.5	101	96	48-141	24	20	R1
1,1,2,2-Tetrachloroethane	ug/kg	ND	80.1	66.5	92.9	73.4	116	110	14-173	23	20	R1
1,1-Dichloroethene	ug/kg	ND	80.1	66.5	92.3	69.7	115	105	43-151	28	20	R1
1,2,4-Trimethylbenzene	ug/kg	ND	80.1	66.5	89.1	69.0	111	104	10-162	25	20	R1
1,2-Dibromoethane (EDB)	ug/kg	ND	80.1	66.5	49.3	43.1	62	65	39-147	13	20	
1,2-Dichloroethane	ug/kg	ND	80.1	66.5	53.4	46.3	67	70	45-135	14	20	
1,2-Dichloropropane	ug/kg	ND	80.1	66.5	69.7	56.6	87	85	41-147	21	20	R1
Benzene	ug/kg	ND	80.1	66.5	69.0	56.9	86	86	38-144	19	20	
Chlorobenzene	ug/kg	ND	80.1	66.5	48.2	39.7	60	60	30-134	19	20	
Chloroform	ug/kg	ND	80.1	66.5	68.4	57.0	85	86	40-139	18	20	
cis-1,2-Dichloroethene	ug/kg	ND	80.1	66.5	62.0	52.6	77	79	43-136	16	20	
Ethylbenzene	ug/kg	ND	80.1	66.5	79.1	57.8	99	87	23-146	31	20	R1
Isopropylbenzene (Cumene)	ug/kg	ND	80.1	66.5	86.2	62.6	108	94	22-147	32	20	R1
Methyl-tert-butyl ether	ug/kg	ND	80.1	66.5	86.9	70.5	109	106	54-151	21	20	R1
Naphthalene	ug/kg	ND	80.1	66.5	14.5	15.6	18	23	10-129	7	20	
Tetrachloroethene	ug/kg	ND	80.1	66.5	93.4	64.4	117	97	25-147	37	20	R1
Toluene	ug/kg	ND	80.1	66.5	76.2	58.0	95	87	31-144	27	20	R1
trans-1,2-Dichloroethene	ug/kg	ND	80.1	66.5	69.8	53.8	87	81	41-138	26	20	R1
Trichloroethene	ug/kg	ND	80.1	66.5	61.9	49.9	77	75	22-167	22	20	R1
Vinyl chloride	ug/kg	ND	80.1	66.5	106	78.7	133	118	40-150	30	20	R1
Xylene (Total)	ug/kg	ND	240	199	208	162	87	81	20-146	25	20	RS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2304094												2304095	
Parameter	Units	50224233008 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
4-Bromofluorobenzene (S)	%.							78	80	65-119			
Dibromofluoromethane (S)	%.							106	102	77-131			
Toluene-d8 (S)	%.							118	116	77-127			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224152

QC Batch:	499966	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540G	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	50224152001, 50224152002, 50224152003, 50224152004, 50224152005, 50224152006, 50224152007, 50224152008, 50224152009		

SAMPLE DUPLICATE: 2306944

Parameter	Units	50224275001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.8	19.2	2	5	

SAMPLE DUPLICATE: 2306945

Parameter	Units	50224431001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.6	15.2	30	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

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QUALIFIERS

Project: IN001342.0001

Pace Project No.: 50224152

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.

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

R1 RPD value was outside control limits.

RS The RPD value in one of the constituent analytes was outside the control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IN001342.0001

Pace Project No.: 50224152

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50224152010	Dup-1 (050719)	EPA 5030/8260	499192		
50224152011	SB-3(11-7) GW	EPA 5030/8260	499192		
50224152012	SB-3(15-11) GW	EPA 5030/8260	499192		
50224152013	SB-3(19-15) GW	EPA 5030/8260	499192		
50224152014	SB-4(14-10) GW	EPA 5030/8260	499192		
50224152015	SB-5(18-14) GW	EPA 5030/8260	499192		
50224152016	SB-6(15-11) GW	EPA 5030/8260	499188		
50224152017	TB-2 (050719)	EPA 5030/8260	499188		
50224152001	SB-3 (2-0)	EPA 8260	499198		
50224152002	SB-3 (4-2)	EPA 8260	499198		
50224152003	SB-4 (2-0)	EPA 8260	499198		
50224152004	SB-4 (4-2)	EPA 8260	499198		
50224152005	SB-5 (4-2)	EPA 8260	499198		
50224152006	SB-5 (5-4)	EPA 8260	499198		
50224152007	SB-6 (2-0)	EPA 8260	499198		
50224152008	SB-6 (4-2)	EPA 8260	499198		
50224152009	Dup-2 (050719)	EPA 8260	499460		
50224152001	SB-3 (2-0)	SM 2540G	499966		
50224152002	SB-3 (4-2)	SM 2540G	499966		
50224152003	SB-4 (2-0)	SM 2540G	499966		
50224152004	SB-4 (4-2)	SM 2540G	499966		
50224152005	SB-5 (4-2)	SM 2540G	499966		
50224152006	SB-5 (5-4)	SM 2540G	499966		
50224152007	SB-6 (2-0)	SM 2540G	499966		
50224152008	SB-6 (4-2)	SM 2540G	499966		
50224152009	Dup-2 (050719)	SM 2540G	499966		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50224152

Pace Analytical®

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Arcadis Billing Information:

Address: 50 W. Market St., Ste. 729

Report To: Randy Woodruff Email To: Randy.Woodruff@arcadis.com

Copy To: Jon Alkin Site Collection Info/Address:

Customer Project Name/Number: EN001342.0001 State: IN County/City: _____ Time Zone Collected: [] PT [] MT [] CT [] ET

Phone: _____ Site/Facility ID #: _____ Compliance Monitoring? [] Yes [] No

Collected By (print): Brian Cook Purchase Order #: _____ DW PWS ID #: _____

Collected By (signature): _____ Turnaround Date Required: 1 week DW Location Code: _____

Sample Disposal: [] Dispose as appropriate [] Return [] Archive: _____ Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [] Yes [] No

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: See Scan

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:

* 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)		Composite End		Res Cl	# of Ctns	Val 8260	Val 5035
			Date	Time	Date	Time				
SB-3(2-0)	SL	G	5/19/19	1049				4	X	001
SB-3(4-2)				1055				4	X	002
SB-4(2-0)				1232				4	X	003
SB-4(4-2)				1237				4	X	004
SB-5(4-2)				1417				4	X	005
SB-5(5-4)				1422				4	X	006
SB-6(2-0)				1608				4	X	007
SB-6(4-2)				1613				4	X	008
DWP-2(050719)				—				4	X	009
DWP-1(050719)				—				4	X	010

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Lab Tracking #: 2397282

Radchem sample(s) screened (<500 cpm): Y N NA 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: 1.3 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 1.3 oC
Comments:

Relinquished by/Company: (Signature) <u>Arcadis</u>	Date/Time: <u>5/7/19 1750</u>	Received by/Company: (Signature) <u>Lucas W. ...</u>	Date/Time: <u>5/7/19 1750</u>	MTJL LAB USE ONLY
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:
				Template:
				Prelogin:
				PM:
				PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): Page: _____
YES / NO of: _____

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50224152

ALL SHADED AREAS are for LAB USE ONLY

Company: Aradis Billing Information:

Address: 150 W. Market St., Ste. 728

Report To: Bandy Woodruff Email To: randall.woodruff@aradis.com

Copy To: Jon Akin Site Collection Info/Address:

Customer Project Name/Number: ENC01342.001 State: IN County/City: _____ Time Zone Collected: PT MT CT ET

Phone: _____ Site/Facility ID #: _____ Compliance Monitoring? Yes No

Collected By (print): Brian Cuskey Purchase Order #: _____ DW PWS ID #: _____

Collected By (signature): _____ Quote #: _____ DW Location Code: _____

Sample Disposal: _____ Turnaround Date Required: 1 week Immediately Packed on Ice: Yes No

[] Dispose as appropriate [] Return [] Archive: _____ [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): Yes No

[] Hold: _____ 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)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
SB-3(11-7)GW	GW	G	5/7/19	1049				3
SB-3(15-11)GW				1021				3
SB-3(19-15)GW				0958				3
SB-4(14-10)GW				1213				3
SB-5(18-14)GW				1351				3
SB-6(15-11)GW				1621				3
TB-2(050719)								3

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist: See Scan

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:

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 #: 2397281

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____ oC

Cooler 1 Therm Corr. Factor: _____ oC

Cooler 1 Corrected Temp: _____ oC

Comments:

Relinquished by/Company: (Signature) Aradis Date/Time: 5/7/19 1750

Received by/Company: (Signature) Lucas Woodruff Date/Time: 5/7/19 1750

Table #: _____

Acctnum: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): Page: _____

YES / NO of: _____



SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50224152

Date/Time and Initials of person examining contents: LWG 5/7/19 1805

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: 1.3/1.3 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		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	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.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
Chain of Custody Present:	<input checked="" type="checkbox"/>		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>		Dissolved Metals field filtered?:			<input checked="" type="checkbox"/>
Short Hold Time Analysis (<72hr)? Analysis: <u>TC</u>	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab: <u>18:15</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested:		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/>		
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?:	<input checked="" type="checkbox"/>		
			Trip Blank Custody Seals?:	<input checked="" type="checkbox"/>		

Comments: H.S. 76mm Trip blank 1/3 - LWG 5/7/19

Sample Container Count

CLIENT: Arcadis

COC PAGE 1 of 2

COC ID# 2397282

Project # 50224152

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix Si/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH >12
		1																	4	SL	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10	3																				
11																					
12																					

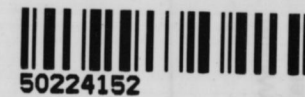
SBS
Kit

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

Sample Container Count

WO#: 50224152



CLIENT: Arcadis

COC PAGE 2 of 2

COC ID# 2397281

Project # 50224152

SBS Bulk Kit

Sample Line Item	DCP (S)	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R				Matrix (Soil/Aque)	pH <2	pH >9	pH >12	
1	3																					WS			
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

May 16, 2019

Sarah Jonker
Arcadis
150 West Market Street
Suite 700
Indianapolis, IN 46204

RE: Project: Meritor - Franklin, IN
Pace Project No.: 50224339

Dear Sarah Jonker:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2019. 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: Mr. Jon Akin, Arcadis U.S., Inc.
Mr. Steve Sharp, Arcadis US, Inc
Randall Woodruff, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

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

Michigan Department of Environmental Quality, Laboratory
#9050

Ohio VAP Certification #: CL0065

Oklahoma Certification #: 2018-101

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50224339001	Trip Blank (050819)	Water	05/08/19 08:00	05/09/19 07:35
50224339002	SB-7 (17-13) GW	Water	05/08/19 13:00	05/09/19 07:35
50224339003	SB-8 (16-12) GW	Water	05/08/19 17:10	05/09/19 07:35
50224339004	SB-7 (2-4)	Solid	05/08/19 08:55	05/09/19 07:35
50224339005	SB-7 (4-6)	Solid	05/08/19 09:00	05/09/19 07:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50224339001	Trip Blank (050819)	EPA 5030/8260	LKC	75	PASI-I
50224339002	SB-7 (17-13) GW	EPA 5030/8260	LKC	75	PASI-I
50224339003	SB-8 (16-12) GW	EPA 5030/8260	LKC	75	PASI-I
50224339004	SB-7 (2-4)	EPA 8260	ALA	75	PASI-I
		SM 2540G	RM1	1	PASI-I
50224339005	SB-7 (4-6)	EPA 8260	ALA	75	PASI-I
		SM 2540G	RM1	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50224339002	SB-7 (17-13) GW					
EPA 5030/8260	cis-1,2-Dichloroethene	64.3	ug/L	5.0	05/10/19 10:08	
EPA 5030/8260	Vinyl chloride	24.7	ug/L	2.0	05/10/19 10:08	
50224339004	SB-7 (2-4)					
EPA 8260	Acetone	116	ug/kg	104	05/14/19 07:54	
EPA 8260	cis-1,2-Dichloroethene	299	ug/kg	5.2	05/14/19 07:54	
EPA 8260	trans-1,2-Dichloroethene	9.9	ug/kg	5.2	05/14/19 07:54	
EPA 8260	p-Isopropyltoluene	7.6	ug/kg	5.2	05/14/19 07:54	
EPA 8260	1,2,4-Trimethylbenzene	17.9	ug/kg	5.2	05/14/19 07:54	
EPA 8260	1,3,5-Trimethylbenzene	15.5	ug/kg	5.2	05/14/19 07:54	
EPA 8260	Vinyl chloride	20.3	ug/kg	5.2	05/14/19 07:54	
SM 2540G	Percent Moisture	11.7	%	0.10	05/14/19 10:20	
50224339005	SB-7 (4-6)					
EPA 8260	Acetone	170	ug/kg	121	05/13/19 22:41	R1
EPA 8260	n-Butylbenzene	68.4	ug/kg	6.1	05/13/19 22:41	M1, R1
EPA 8260	sec-Butylbenzene	27.8	ug/kg	6.1	05/13/19 22:41	M1, R1
EPA 8260	cis-1,2-Dichloroethene	10.2	ug/kg	6.1	05/13/19 22:41	R1
EPA 8260	1-Methylnaphthalene	67.2	ug/kg	16.0	05/14/19 17:49	M1, N2, R1
EPA 8260	2-Methylnaphthalene	52.1	ug/kg	16.0	05/14/19 17:49	M1, R1
EPA 8260	Naphthalene	27.8	ug/kg	8.0	05/14/19 17:49	M1, R1
SM 2540G	Percent Moisture	14.1	%	0.10	05/14/19 10:20	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: Trip Blank (050819) **Lab ID: 50224339001** Collected: 05/08/19 08:00 Received: 05/09/19 07:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/10/19 19:21	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/10/19 19:21	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/10/19 19:21	107-13-1	
Benzene	ND	ug/L	5.0	1		05/10/19 19:21	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/10/19 19:21	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/10/19 19:21	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/19 19:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/19 19:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/10/19 19:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/10/19 19:21	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/10/19 19:21	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/10/19 19:21	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/10/19 19:21	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/10/19 19:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/19 19:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/19 19:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/10/19 19:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/19 19:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/10/19 19:21	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/10/19 19:21	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/10/19 19:21	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/19 19:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/19 19:21	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/10/19 19:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/10/19 19:21	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/10/19 19:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/19 19:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/19 19:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/19 19:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/19 19:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/19 19:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/19 19:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/10/19 19:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/10/19 19:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/10/19 19:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/19 19:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/19 19:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/19 19:21	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/10/19 19:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/10/19 19:21	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/10/19 19:21	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/10/19 19:21	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/10/19 19:21	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/19 19:21	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: Trip Blank (050819)	Lab ID: 50224339001	Collected: 05/08/19 08:00	Received: 05/09/19 07:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/10/19 19:21	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/10/19 19:21	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/10/19 19:21	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/10/19 19:21	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/19 19:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/19 19:21	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/10/19 19:21	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/10/19 19:21	103-65-1	
Styrene	ND	ug/L	5.0	1		05/10/19 19:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/19 19:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/19 19:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/19 19:21	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/19 19:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/19 19:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/19 19:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/19 19:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/10/19 19:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/10/19 19:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/10/19 19:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/10/19 19:21	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/10/19 19:21	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/10/19 19:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/10/19 19:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	80-122	1		05/10/19 19:21	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	85-114	1		05/10/19 19:21	460-00-4	
Toluene-d8 (S)	92	%.	85-114	1		05/10/19 19:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: SB-7 (17-13) GW		Lab ID: 50224339002	Collected: 05/08/19 13:00	Received: 05/09/19 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/10/19 10:08	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/10/19 10:08	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/10/19 10:08	107-13-1	
Benzene	ND	ug/L	5.0	1		05/10/19 10:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/10/19 10:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/10/19 10:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/19 10:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/19 10:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/10/19 10:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/10/19 10:08	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/10/19 10:08	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/10/19 10:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/10/19 10:08	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/10/19 10:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/19 10:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/19 10:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/10/19 10:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/19 10:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/10/19 10:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/10/19 10:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/10/19 10:08	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/19 10:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/19 10:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/10/19 10:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 10:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 10:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 10:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/10/19 10:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/10/19 10:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/19 10:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/19 10:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/19 10:08	75-35-4	
cis-1,2-Dichloroethene	64.3	ug/L	5.0	1		05/10/19 10:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/19 10:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/19 10:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/10/19 10:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/10/19 10:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/10/19 10:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/19 10:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/19 10:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/19 10:08	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/10/19 10:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/10/19 10:08	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/10/19 10:08	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/10/19 10:08	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/10/19 10:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/19 10:08	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: SB-7 (17-13) GW	Lab ID: 50224339002	Collected: 05/08/19 13:00	Received: 05/09/19 07:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/10/19 10:08	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/10/19 10:08	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/10/19 10:08	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/10/19 10:08	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/19 10:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/19 10:08	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/10/19 10:08	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/10/19 10:08	103-65-1	
Styrene	ND	ug/L	5.0	1		05/10/19 10:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/19 10:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/19 10:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/19 10:08	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/19 10:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/10/19 10:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/19 10:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/19 10:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/19 10:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/19 10:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/10/19 10:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/10/19 10:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/10/19 10:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/10/19 10:08	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/10/19 10:08	108-05-4	
Vinyl chloride	24.7	ug/L	2.0	1		05/10/19 10:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/10/19 10:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	80-122	1		05/10/19 10:08	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	85-114	1		05/10/19 10:08	460-00-4	
Toluene-d8 (S)	93	%.	85-114	1		05/10/19 10:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: SB-8 (16-12) GW		Lab ID: 50224339003	Collected: 05/08/19 17:10	Received: 05/09/19 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/10/19 19:55	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/10/19 19:55	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/10/19 19:55	107-13-1	
Benzene	ND	ug/L	5.0	1		05/10/19 19:55	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/10/19 19:55	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/10/19 19:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/19 19:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/19 19:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/10/19 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/10/19 19:55	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/10/19 19:55	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/10/19 19:55	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/10/19 19:55	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/10/19 19:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/19 19:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/19 19:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/10/19 19:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/19 19:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/10/19 19:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/10/19 19:55	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/10/19 19:55	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/19 19:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/19 19:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/10/19 19:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/10/19 19:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/10/19 19:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/19 19:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/19 19:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/19 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/19 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/19 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/19 19:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/10/19 19:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/10/19 19:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/10/19 19:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/19 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/19 19:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/19 19:55	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/10/19 19:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/10/19 19:55	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/10/19 19:55	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/10/19 19:55	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/10/19 19:55	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/19 19:55	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: SB-8 (16-12) GW	Lab ID: 50224339003	Collected: 05/08/19 17:10	Received: 05/09/19 07:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/10/19 19:55	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/10/19 19:55	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/10/19 19:55	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/10/19 19:55	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/19 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/19 19:55	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/10/19 19:55	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/10/19 19:55	103-65-1	
Styrene	ND	ug/L	5.0	1		05/10/19 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/19 19:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/19 19:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/19 19:55	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/19 19:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/19 19:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/19 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/19 19:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/19 19:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/10/19 19:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/10/19 19:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/10/19 19:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/10/19 19:55	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/10/19 19:55	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/10/19 19:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/10/19 19:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	80-122	1		05/10/19 19:55	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	85-114	1		05/10/19 19:55	460-00-4	
Toluene-d8 (S)	93	%.	85-114	1		05/10/19 19:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: SB-7 (2-4) **Lab ID: 50224339004** Collected: 05/08/19 08:55 Received: 05/09/19 07:35 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						
Acetone	116	ug/kg	104	1		05/14/19 07:54	67-64-1	
Acrolein	ND	ug/kg	104	1		05/14/19 07:54	107-02-8	
Acrylonitrile	ND	ug/kg	104	1		05/14/19 07:54	107-13-1	
Benzene	ND	ug/kg	5.2	1		05/14/19 07:54	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		05/14/19 07:54	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		05/14/19 07:54	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		05/14/19 07:54	75-27-4	
Bromoform	ND	ug/kg	5.2	1		05/14/19 07:54	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		05/14/19 07:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.1	1		05/14/19 07:54	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		05/14/19 07:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		05/14/19 07:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		05/14/19 07:54	98-06-6	
Carbon disulfide	ND	ug/kg	10.4	1		05/14/19 07:54	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		05/14/19 07:54	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		05/14/19 07:54	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		05/14/19 07:54	75-00-3	
Chloroform	ND	ug/kg	5.2	1		05/14/19 07:54	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		05/14/19 07:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		05/14/19 07:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		05/14/19 07:54	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		05/14/19 07:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		05/14/19 07:54	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		05/14/19 07:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		05/14/19 07:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		05/14/19 07:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		05/14/19 07:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	104	1		05/14/19 07:54	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		05/14/19 07:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		05/14/19 07:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		05/14/19 07:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		05/14/19 07:54	75-35-4	
cis-1,2-Dichloroethene	299	ug/kg	5.2	1		05/14/19 07:54	156-59-2	
trans-1,2-Dichloroethene	9.9	ug/kg	5.2	1		05/14/19 07:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		05/14/19 07:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		05/14/19 07:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		05/14/19 07:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		05/14/19 07:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		05/14/19 07:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		05/14/19 07:54	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		05/14/19 07:54	100-41-4	
Ethyl methacrylate	ND	ug/kg	104	1		05/14/19 07:54	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		05/14/19 07:54	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		05/14/19 07:54	110-54-3	
2-Hexanone	ND	ug/kg	104	1		05/14/19 07:54	591-78-6	
Iodomethane	ND	ug/kg	104	1		05/14/19 07:54	74-88-4	

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: SB-7 (2-4) **Lab ID: 50224339004** Collected: 05/08/19 08:55 Received: 05/09/19 07:35 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						
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		05/14/19 07:54	98-82-8	
p-Isopropyltoluene	7.6	ug/kg	5.2	1		05/14/19 07:54	99-87-6	
Methylene Chloride	ND	ug/kg	20.9	1		05/14/19 07:54	75-09-2	
1-Methylnaphthalene	ND	ug/kg	10.4	1		05/14/19 07:54	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	10.4	1		05/14/19 07:54	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.1	1		05/14/19 07:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		05/14/19 07:54	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		05/14/19 07:54	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		05/14/19 07:54	103-65-1	
Styrene	ND	ug/kg	5.2	1		05/14/19 07:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		05/14/19 07:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		05/14/19 07:54	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		05/14/19 07:54	127-18-4	
Toluene	ND	ug/kg	5.2	1		05/14/19 07:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		05/14/19 07:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		05/14/19 07:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		05/14/19 07:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		05/14/19 07:54	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		05/14/19 07:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		05/14/19 07:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		05/14/19 07:54	96-18-4	
1,2,4-Trimethylbenzene	17.9	ug/kg	5.2	1		05/14/19 07:54	95-63-6	
1,3,5-Trimethylbenzene	15.5	ug/kg	5.2	1		05/14/19 07:54	108-67-8	
Vinyl acetate	ND	ug/kg	104	1		05/14/19 07:54	108-05-4	
Vinyl chloride	20.3	ug/kg	5.2	1		05/14/19 07:54	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		05/14/19 07:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	117	%.	77-131	1		05/14/19 07:54	1868-53-7	
Toluene-d8 (S)	108	%.	77-127	1		05/14/19 07:54	2037-26-5	
4-Bromofluorobenzene (S)	74	%.	65-119	1		05/14/19 07:54	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	11.7	%	0.10	1		05/14/19 10:20		
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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: SB-7 (4-6) **Lab ID: 50224339005** Collected: 05/08/19 09:00 Received: 05/09/19 07:35 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						
Acetone	170	ug/kg	121	1		05/13/19 22:41	67-64-1	R1
Acrolein	ND	ug/kg	121	1		05/13/19 22:41	107-02-8	
Acrylonitrile	ND	ug/kg	121	1		05/13/19 22:41	107-13-1	
Benzene	ND	ug/kg	6.1	1		05/13/19 22:41	71-43-2	R1
Bromobenzene	ND	ug/kg	6.1	1		05/13/19 22:41	108-86-1	R1
Bromochloromethane	ND	ug/kg	6.1	1		05/13/19 22:41	74-97-5	R1
Bromodichloromethane	ND	ug/kg	6.1	1		05/13/19 22:41	75-27-4	
Bromoform	ND	ug/kg	6.1	1		05/13/19 22:41	75-25-2	R1
Bromomethane	ND	ug/kg	6.1	1		05/13/19 22:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	40.0	1		05/14/19 17:49	78-93-3	R1
n-Butylbenzene	68.4	ug/kg	6.1	1		05/13/19 22:41	104-51-8	M1,R1
sec-Butylbenzene	27.8	ug/kg	6.1	1		05/13/19 22:41	135-98-8	M1,R1
tert-Butylbenzene	ND	ug/kg	6.1	1		05/13/19 22:41	98-06-6	R1
Carbon disulfide	ND	ug/kg	12.1	1		05/13/19 22:41	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.1	1		05/13/19 22:41	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	1		05/13/19 22:41	108-90-7	R1
Chloroethane	ND	ug/kg	6.1	1		05/13/19 22:41	75-00-3	
Chloroform	ND	ug/kg	6.1	1		05/13/19 22:41	67-66-3	R1
Chloromethane	ND	ug/kg	6.1	1		05/13/19 22:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.1	1		05/13/19 22:41	95-49-8	R1
4-Chlorotoluene	ND	ug/kg	6.1	1		05/13/19 22:41	106-43-4	R1
Dibromochloromethane	ND	ug/kg	6.1	1		05/13/19 22:41	124-48-1	R1
1,2-Dibromoethane (EDB)	ND	ug/kg	6.1	1		05/13/19 22:41	106-93-4	R1
Dibromomethane	ND	ug/kg	6.1	1		05/13/19 22:41	74-95-3	R1
1,2-Dichlorobenzene	ND	ug/kg	6.1	1		05/13/19 22:41	95-50-1	R1
1,3-Dichlorobenzene	ND	ug/kg	6.1	1		05/13/19 22:41	541-73-1	R1
1,4-Dichlorobenzene	ND	ug/kg	6.1	1		05/13/19 22:41	106-46-7	R1
trans-1,4-Dichloro-2-butene	ND	ug/kg	121	1		05/13/19 22:41	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.1	1		05/13/19 22:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.1	1		05/13/19 22:41	75-34-3	R1
1,2-Dichloroethane	ND	ug/kg	6.1	1		05/13/19 22:41	107-06-2	R1
1,1-Dichloroethene	ND	ug/kg	6.1	1		05/13/19 22:41	75-35-4	
cis-1,2-Dichloroethene	10.2	ug/kg	6.1	1		05/13/19 22:41	156-59-2	R1
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1		05/13/19 22:41	156-60-5	R1
1,2-Dichloropropane	ND	ug/kg	6.1	1		05/13/19 22:41	78-87-5	R1
1,3-Dichloropropane	ND	ug/kg	6.1	1		05/13/19 22:41	142-28-9	R1
2,2-Dichloropropane	ND	ug/kg	6.1	1		05/13/19 22:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.1	1		05/13/19 22:41	563-58-6	R1
cis-1,3-Dichloropropene	ND	ug/kg	6.1	1		05/13/19 22:41	10061-01-5	M1
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1		05/13/19 22:41	10061-02-6	M1
Ethylbenzene	ND	ug/kg	6.1	1		05/13/19 22:41	100-41-4	R1
Ethyl methacrylate	ND	ug/kg	121	1		05/13/19 22:41	97-63-2	M1
Hexachloro-1,3-butadiene	ND	ug/kg	6.1	1		05/13/19 22:41	87-68-3	R1
n-Hexane	ND	ug/kg	6.1	1		05/13/19 22:41	110-54-3	
2-Hexanone	ND	ug/kg	121	1		05/13/19 22:41	591-78-6	R1
Iodomethane	ND	ug/kg	121	1		05/13/19 22:41	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Sample: SB-7 (4-6) **Lab ID: 50224339005** Collected: 05/08/19 09:00 Received: 05/09/19 07:35 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						
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1		05/13/19 22:41	98-82-8	R1
p-Isopropyltoluene	ND	ug/kg	6.1	1		05/13/19 22:41	99-87-6	R1
Methylene Chloride	ND	ug/kg	24.2	1		05/13/19 22:41	75-09-2	R1
1-Methylnaphthalene	67.2	ug/kg	16.0	1		05/14/19 17:49	90-12-0	M1,N2, R1
2-Methylnaphthalene	52.1	ug/kg	16.0	1		05/14/19 17:49	91-57-6	M1,R1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.3	1		05/13/19 22:41	108-10-1	R1
Methyl-tert-butyl ether	ND	ug/kg	6.1	1		05/13/19 22:41	1634-04-4	R1
Naphthalene	27.8	ug/kg	8.0	1		05/14/19 17:49	91-20-3	M1,R1
n-Propylbenzene	ND	ug/kg	6.1	1		05/13/19 22:41	103-65-1	R1
Styrene	ND	ug/kg	6.1	1		05/13/19 22:41	100-42-5	M1
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1		05/13/19 22:41	630-20-6	R1
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1		05/13/19 22:41	79-34-5	M1,R1
Tetrachloroethene	ND	ug/kg	6.1	1		05/13/19 22:41	127-18-4	R1
Toluene	ND	ug/kg	6.1	1		05/13/19 22:41	108-88-3	R1
1,2,3-Trichlorobenzene	ND	ug/kg	6.1	1		05/13/19 22:41	87-61-6	R1
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	1		05/13/19 22:41	120-82-1	R1
1,1,1-Trichloroethane	ND	ug/kg	6.1	1		05/13/19 22:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	1		05/13/19 22:41	79-00-5	R1
Trichloroethene	ND	ug/kg	6.1	1		05/13/19 22:41	79-01-6	R1
Trichlorofluoromethane	ND	ug/kg	6.1	1		05/13/19 22:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.1	1		05/13/19 22:41	96-18-4	M1,R1
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	1		05/13/19 22:41	95-63-6	R1
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	1		05/13/19 22:41	108-67-8	R1
Vinyl acetate	ND	ug/kg	121	1		05/13/19 22:41	108-05-4	M1
Vinyl chloride	ND	ug/kg	6.1	1		05/13/19 22:41	75-01-4	
Xylene (Total)	ND	ug/kg	12.1	1		05/13/19 22:41	1330-20-7	RS
Surrogates								
Dibromofluoromethane (S)	129	%	77-131	1		05/13/19 22:41	1868-53-7	
Toluene-d8 (S)	90	%	77-127	1		05/13/19 22:41	2037-26-5	
4-Bromofluorobenzene (S)	77	%	65-119	1		05/13/19 22:41	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	14.1	%	0.10	1		05/14/19 10:20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

QC Batch: 499470

Analysis Method: EPA 5030/8260

QC Batch Method: EPA 5030/8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50224339002

METHOD BLANK: 2304157

Matrix: Water

Associated Lab Samples: 50224339002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/10/19 09:00	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/10/19 09:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/10/19 09:00	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/10/19 09:00	
1,1-Dichloroethane	ug/L	ND	5.0	05/10/19 09:00	
1,1-Dichloroethene	ug/L	ND	5.0	05/10/19 09:00	
1,1-Dichloropropene	ug/L	ND	5.0	05/10/19 09:00	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/10/19 09:00	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/10/19 09:00	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/10/19 09:00	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/10/19 09:00	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/10/19 09:00	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/10/19 09:00	
1,2-Dichloroethane	ug/L	ND	5.0	05/10/19 09:00	
1,2-Dichloropropane	ug/L	ND	5.0	05/10/19 09:00	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/10/19 09:00	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/10/19 09:00	
1,3-Dichloropropane	ug/L	ND	5.0	05/10/19 09:00	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/10/19 09:00	
1-Methylnaphthalene	ug/L	ND	10.0	05/10/19 09:00	N2
2,2-Dichloropropane	ug/L	ND	5.0	05/10/19 09:00	
2-Butanone (MEK)	ug/L	ND	25.0	05/10/19 09:00	
2-Chlorotoluene	ug/L	ND	5.0	05/10/19 09:00	
2-Hexanone	ug/L	ND	25.0	05/10/19 09:00	
2-Methylnaphthalene	ug/L	ND	10.0	05/10/19 09:00	
4-Chlorotoluene	ug/L	ND	5.0	05/10/19 09:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/10/19 09:00	
Acetone	ug/L	ND	100	05/10/19 09:00	
Acrolein	ug/L	ND	50.0	05/10/19 09:00	
Acrylonitrile	ug/L	ND	100	05/10/19 09:00	
Benzene	ug/L	ND	5.0	05/10/19 09:00	
Bromobenzene	ug/L	ND	5.0	05/10/19 09:00	
Bromochloromethane	ug/L	ND	5.0	05/10/19 09:00	
Bromodichloromethane	ug/L	ND	5.0	05/10/19 09:00	
Bromoform	ug/L	ND	5.0	05/10/19 09:00	
Bromomethane	ug/L	ND	5.0	05/10/19 09:00	
Carbon disulfide	ug/L	ND	10.0	05/10/19 09:00	
Carbon tetrachloride	ug/L	ND	5.0	05/10/19 09:00	
Chlorobenzene	ug/L	ND	5.0	05/10/19 09:00	
Chloroethane	ug/L	ND	5.0	05/10/19 09:00	
Chloroform	ug/L	ND	5.0	05/10/19 09:00	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

METHOD BLANK: 2304157

Matrix: Water

Associated Lab Samples: 50224339002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	05/10/19 09:00	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/10/19 09:00	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/10/19 09:00	
Dibromochloromethane	ug/L	ND	5.0	05/10/19 09:00	
Dibromomethane	ug/L	ND	5.0	05/10/19 09:00	
Dichlorodifluoromethane	ug/L	ND	5.0	05/10/19 09:00	
Ethyl methacrylate	ug/L	ND	100	05/10/19 09:00	
Ethylbenzene	ug/L	ND	5.0	05/10/19 09:00	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/10/19 09:00	
Iodomethane	ug/L	ND	10.0	05/10/19 09:00	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/10/19 09:00	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/10/19 09:00	
Methylene Chloride	ug/L	5.3	5.0	05/10/19 09:00	
n-Butylbenzene	ug/L	ND	5.0	05/10/19 09:00	
n-Hexane	ug/L	ND	5.0	05/10/19 09:00	
n-Propylbenzene	ug/L	ND	5.0	05/10/19 09:00	
Naphthalene	ug/L	ND	1.7	05/10/19 09:00	
p-Isopropyltoluene	ug/L	ND	5.0	05/10/19 09:00	
sec-Butylbenzene	ug/L	ND	5.0	05/10/19 09:00	
Styrene	ug/L	ND	5.0	05/10/19 09:00	
tert-Butylbenzene	ug/L	ND	5.0	05/10/19 09:00	
Tetrachloroethene	ug/L	ND	5.0	05/10/19 09:00	
Toluene	ug/L	ND	5.0	05/10/19 09:00	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/10/19 09:00	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/10/19 09:00	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/10/19 09:00	
Trichloroethene	ug/L	ND	5.0	05/10/19 09:00	
Trichlorofluoromethane	ug/L	ND	5.0	05/10/19 09:00	
Vinyl acetate	ug/L	ND	50.0	05/10/19 09:00	
Vinyl chloride	ug/L	ND	2.0	05/10/19 09:00	
Xylene (Total)	ug/L	ND	10.0	05/10/19 09:00	
4-Bromofluorobenzene (S)	%	96	85-114	05/10/19 09:00	
Dibromofluoromethane (S)	%	103	80-122	05/10/19 09:00	
Toluene-d8 (S)	%	92	85-114	05/10/19 09:00	

LABORATORY CONTROL SAMPLE: 2304158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.9	104	72-127	
1,1,2,2-Tetrachloroethane	ug/L	50	51.9	104	70-124	
1,1-Dichloroethene	ug/L	50	51.6	103	71-126	
1,2,4-Trimethylbenzene	ug/L	50	48.9	98	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	57.6	115	81-119	
1,2-Dichloroethane	ug/L	50	50.1	100	68-119	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

LABORATORY CONTROL SAMPLE: 2304158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	51.0	102	79-126	
Benzene	ug/L	50	50.9	102	78-117	
Chlorobenzene	ug/L	50	49.0	98	79-113	
Chloroform	ug/L	50	49.3	99	73-118	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	74-122	
Ethylbenzene	ug/L	50	49.4	99	80-118	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	82-120	
Methyl-tert-butyl ether	ug/L	50	61.2	122	72-128	
Naphthalene	ug/L	50	50.5	101	71-121	
Tetrachloroethene	ug/L	50	53.9	108	76-124	
Toluene	ug/L	50	47.2	94	78-116	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	73-121	
Trichloroethene	ug/L	50	54.7	109	76-120	
Vinyl chloride	ug/L	50	36.2	72	70-136	
Xylene (Total)	ug/L	150	146	98	79-119	
4-Bromofluorobenzene (S)	%			102	85-114	
Dibromofluoromethane (S)	%			94	80-122	
Toluene-d8 (S)	%			95	85-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2304159 2304160

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224339002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	ND	50	50	50	46.8	50.3	94	101	48-145	7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50	50.2	48.3	100	97	44-139	4	20	
1,1-Dichloroethene	ug/L	ND	50	50	50	47.8	52.4	96	105	46-148	9	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50	25.6	25.7	51	51	39-140	0	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50	50.8	50.2	102	100	47-143	1	20	
1,2-Dichloroethane	ug/L	ND	50	50	50	48.1	49.2	96	98	44-138	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	50	46.2	48.9	92	98	53-142	6	20	
Benzene	ug/L	ND	50	50	50	43.3	46.2	87	92	49-140	7	20	
Chlorobenzene	ug/L	ND	50	50	50	34.5	34.8	69	70	47-135	1	20	
Chloroform	ug/L	ND	50	50	50	45.7	48.1	91	96	49-136	5	20	
cis-1,2-Dichloroethene	ug/L	64.3	50	50	50	106	109	84	90	46-143	3	20	
Ethylbenzene	ug/L	ND	50	50	50	31.4	32.0	63	64	44-145	2	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	50	27.1	28.1	54	56	43-148	4	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	50	60.6	60.6	121	121	38-158	0	20	
Naphthalene	ug/L	ND	50	50	50	41.7	40.9	83	82	40-137	2	20	
Tetrachloroethene	ug/L	ND	50	50	50	34.4	35.2	69	70	41-145	2	20	
Toluene	ug/L	ND	50	50	50	35.7	36.7	71	73	48-139	3	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	50	46.0	49.6	90	97	46-140	8	20	
Trichloroethene	ug/L	ND	50	50	50	45.3	47.3	87	91	43-147	4	20	
Vinyl chloride	ug/L	24.7	50	50	50	60.5	65.9	71	82	49-153	9	20	
Xylene (Total)	ug/L	ND	150	150	150	90.9	92.9	61	62	44-147	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2304159												2304160		
Parameter	Units	50224339002		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Conc.	Spike	Spike									
4-Bromofluorobenzene (S)	%.							104	103	85-114				
Dibromofluoromethane (S)	%.							97	97	80-122				
Toluene-d8 (S)	%.							97	95	85-114				

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN
Pace Project No.: 50224339

QC Batch: 499656 Analysis Method: EPA 5030/8260
QC Batch Method: EPA 5030/8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50224339001, 50224339003

METHOD BLANK: 2305072 Matrix: Water
Associated Lab Samples: 50224339001, 50224339003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/10/19 15:58	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/10/19 15:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/10/19 15:58	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/10/19 15:58	
1,1-Dichloroethane	ug/L	ND	5.0	05/10/19 15:58	
1,1-Dichloroethene	ug/L	ND	5.0	05/10/19 15:58	
1,1-Dichloropropene	ug/L	ND	5.0	05/10/19 15:58	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/10/19 15:58	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/10/19 15:58	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/10/19 15:58	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/10/19 15:58	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/10/19 15:58	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/10/19 15:58	
1,2-Dichloroethane	ug/L	ND	5.0	05/10/19 15:58	
1,2-Dichloropropane	ug/L	ND	5.0	05/10/19 15:58	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/10/19 15:58	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/10/19 15:58	
1,3-Dichloropropane	ug/L	ND	5.0	05/10/19 15:58	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/10/19 15:58	
1-Methylnaphthalene	ug/L	ND	10.0	05/10/19 15:58	N2
2,2-Dichloropropane	ug/L	ND	5.0	05/10/19 15:58	
2-Butanone (MEK)	ug/L	ND	25.0	05/10/19 15:58	
2-Chlorotoluene	ug/L	ND	5.0	05/10/19 15:58	
2-Hexanone	ug/L	ND	25.0	05/10/19 15:58	
2-Methylnaphthalene	ug/L	ND	10.0	05/10/19 15:58	
4-Chlorotoluene	ug/L	ND	5.0	05/10/19 15:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/10/19 15:58	
Acetone	ug/L	ND	100	05/10/19 15:58	
Acrolein	ug/L	ND	50.0	05/10/19 15:58	
Acrylonitrile	ug/L	ND	100	05/10/19 15:58	
Benzene	ug/L	ND	5.0	05/10/19 15:58	
Bromobenzene	ug/L	ND	5.0	05/10/19 15:58	
Bromochloromethane	ug/L	ND	5.0	05/10/19 15:58	
Bromodichloromethane	ug/L	ND	5.0	05/10/19 15:58	
Bromoform	ug/L	ND	5.0	05/10/19 15:58	
Bromomethane	ug/L	ND	5.0	05/10/19 15:58	
Carbon disulfide	ug/L	ND	10.0	05/10/19 15:58	
Carbon tetrachloride	ug/L	ND	5.0	05/10/19 15:58	
Chlorobenzene	ug/L	ND	5.0	05/10/19 15:58	
Chloroethane	ug/L	ND	5.0	05/10/19 15:58	
Chloroform	ug/L	ND	5.0	05/10/19 15:58	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

METHOD BLANK: 2305072

Matrix: Water

Associated Lab Samples: 50224339001, 50224339003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	05/10/19 15:58	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/10/19 15:58	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/10/19 15:58	
Dibromochloromethane	ug/L	ND	5.0	05/10/19 15:58	
Dibromomethane	ug/L	ND	5.0	05/10/19 15:58	
Dichlorodifluoromethane	ug/L	ND	5.0	05/10/19 15:58	
Ethyl methacrylate	ug/L	ND	100	05/10/19 15:58	
Ethylbenzene	ug/L	ND	5.0	05/10/19 15:58	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/10/19 15:58	
Iodomethane	ug/L	ND	10.0	05/10/19 15:58	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/10/19 15:58	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/10/19 15:58	
Methylene Chloride	ug/L	ND	5.0	05/10/19 15:58	
n-Butylbenzene	ug/L	ND	5.0	05/10/19 15:58	
n-Hexane	ug/L	ND	5.0	05/10/19 15:58	
n-Propylbenzene	ug/L	ND	5.0	05/10/19 15:58	
Naphthalene	ug/L	ND	1.7	05/10/19 15:58	
p-Isopropyltoluene	ug/L	ND	5.0	05/10/19 15:58	
sec-Butylbenzene	ug/L	ND	5.0	05/10/19 15:58	
Styrene	ug/L	ND	5.0	05/10/19 15:58	
tert-Butylbenzene	ug/L	ND	5.0	05/10/19 15:58	
Tetrachloroethene	ug/L	ND	5.0	05/10/19 15:58	
Toluene	ug/L	ND	5.0	05/10/19 15:58	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/10/19 15:58	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/10/19 15:58	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/10/19 15:58	
Trichloroethene	ug/L	ND	5.0	05/10/19 15:58	
Trichlorofluoromethane	ug/L	ND	5.0	05/10/19 15:58	
Vinyl acetate	ug/L	ND	50.0	05/10/19 15:58	
Vinyl chloride	ug/L	ND	2.0	05/10/19 15:58	
Xylene (Total)	ug/L	ND	10.0	05/10/19 15:58	
4-Bromofluorobenzene (S)	%	101	85-114	05/10/19 15:58	
Dibromofluoromethane (S)	%	99	80-122	05/10/19 15:58	
Toluene-d8 (S)	%	96	85-114	05/10/19 15:58	

LABORATORY CONTROL SAMPLE: 2305073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	78-120	
1,1,1-Trichloroethane	ug/L	50	55.5	111	72-127	
1,1,2,2-Tetrachloroethane	ug/L	50	46.8	94	70-124	
1,1,2-Trichloroethane	ug/L	50	49.3	99	79-121	
1,1-Dichloroethane	ug/L	50	52.5	105	70-119	
1,1-Dichloroethene	ug/L	50	51.1	102	71-126	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

LABORATORY CONTROL SAMPLE: 2305073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	51.6	103	76-122	
1,2,3-Trichlorobenzene	ug/L	50	51.7	103	71-126	
1,2,3-Trichloropropane	ug/L	50	52.5	105	75-119	
1,2,4-Trichlorobenzene	ug/L	50	57.0	114	68-130	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	51.4	103	81-119	
1,2-Dichlorobenzene	ug/L	50	47.8	96	78-114	
1,2-Dichloroethane	ug/L	50	48.5	97	68-119	
1,2-Dichloropropane	ug/L	50	49.8	100	79-126	
1,3,5-Trimethylbenzene	ug/L	50	50.7	101	78-118	
1,3-Dichlorobenzene	ug/L	50	50.4	101	77-114	
1,3-Dichloropropane	ug/L	50	47.1	94	82-124	
1,4-Dichlorobenzene	ug/L	50	48.1	96	77-111	
1-Methylnaphthalene	ug/L	50	52.2	104	60-140	N2
2,2-Dichloropropane	ug/L	50	52.5	105	53-137	
2-Butanone (MEK)	ug/L	250	251	100	62-140	
2-Chlorotoluene	ug/L	50	51.3	103	76-120	
2-Hexanone	ug/L	250	232	93	62-143	
2-Methylnaphthalene	ug/L	50	50.2	100	60-133	
4-Chlorotoluene	ug/L	50	50.5	101	78-114	
4-Methyl-2-pentanone (MIBK)	ug/L	250	219	88	60-143	
Acetone	ug/L	250	246	99	44-156	
Acrolein	ug/L	1000	599	60	17-189	
Acrylonitrile	ug/L	200	181	90	58-139	
Benzene	ug/L	50	48.4	97	78-117	
Bromobenzene	ug/L	50	51.3	103	76-114	
Bromochloromethane	ug/L	50	46.5	93	70-122	
Bromodichloromethane	ug/L	50	50.7	101	72-121	
Bromoform	ug/L	50	46.3	93	66-117	
Bromomethane	ug/L	50	41.1	82	20-176	
Carbon disulfide	ug/L	50	44.9	90	65-124	
Carbon tetrachloride	ug/L	50	52.6	105	68-132	
Chlorobenzene	ug/L	50	49.3	99	79-113	
Chloroethane	ug/L	50	48.1	96	62-140	
Chloroform	ug/L	50	51.6	103	73-118	
Chloromethane	ug/L	50	29.1	58	36-132	
cis-1,2-Dichloroethene	ug/L	50	50.3	101	74-122	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	79-126	
Dibromochloromethane	ug/L	50	48.0	96	75-121	
Dibromomethane	ug/L	50	50.6	101	75-123	
Dichlorodifluoromethane	ug/L	50	27.7	55	27-172	
Ethyl methacrylate	ug/L	200	197	98	72-134	
Ethylbenzene	ug/L	50	51.4	103	80-118	
Hexachloro-1,3-butadiene	ug/L	50	62.0	124	71-141	
Iodomethane	ug/L	100	111	111	10-186	
Isopropylbenzene (Cumene)	ug/L	50	51.3	103	82-120	
Methyl-tert-butyl ether	ug/L	50	51.5	103	72-128	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

LABORATORY CONTROL SAMPLE: 2305073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	40.1	80	70-121	
n-Butylbenzene	ug/L	50	50.7	101	76-123	
n-Hexane	ug/L	50	51.9	104	58-149	
n-Propylbenzene	ug/L	50	49.2	98	80-122	
Naphthalene	ug/L	50	50.7	101	71-121	
p-Isopropyltoluene	ug/L	50	51.1	102	79-121	
sec-Butylbenzene	ug/L	50	50.9	102	78-124	
Styrene	ug/L	50	50.3	101	80-119	
tert-Butylbenzene	ug/L	50	45.9	92	62-102	
Tetrachloroethene	ug/L	50	52.2	104	76-124	
Toluene	ug/L	50	47.8	96	78-116	
trans-1,2-Dichloroethene	ug/L	50	53.2	106	73-121	
trans-1,3-Dichloropropene	ug/L	50	47.0	94	73-126	
trans-1,4-Dichloro-2-butene	ug/L	200	195	97	42-138	
Trichloroethene	ug/L	50	53.4	107	76-120	
Trichlorofluoromethane	ug/L	50	43.8	88	60-138	
Vinyl acetate	ug/L	200	214	107	29-200	
Vinyl chloride	ug/L	50	39.0	78	70-136	
Xylene (Total)	ug/L	150	150	100	79-119	
4-Bromofluorobenzene (S)	%			102	85-114	
Dibromofluoromethane (S)	%			97	80-122	
Toluene-d8 (S)	%			94	85-114	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

QC Batch: 499482

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 50224339005

METHOD BLANK: 2304252

Matrix: Solid

Associated Lab Samples: 50224339005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/13/19 14:26	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/13/19 14:26	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/13/19 14:26	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/13/19 14:26	
1,1-Dichloroethane	ug/kg	ND	5.0	05/13/19 14:26	
1,1-Dichloroethene	ug/kg	ND	5.0	05/13/19 14:26	
1,1-Dichloropropene	ug/kg	ND	5.0	05/13/19 14:26	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/13/19 14:26	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/13/19 14:26	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/13/19 14:26	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/13/19 14:26	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/13/19 14:26	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/13/19 14:26	
1,2-Dichloroethane	ug/kg	ND	5.0	05/13/19 14:26	
1,2-Dichloropropane	ug/kg	ND	5.0	05/13/19 14:26	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/13/19 14:26	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/13/19 14:26	
1,3-Dichloropropane	ug/kg	ND	5.0	05/13/19 14:26	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/13/19 14:26	
1-Methylnaphthalene	ug/kg	ND	10.0	05/13/19 14:26	N2
2,2-Dichloropropane	ug/kg	ND	5.0	05/13/19 14:26	
2-Butanone (MEK)	ug/kg	ND	25.0	05/13/19 14:26	
2-Chlorotoluene	ug/kg	ND	5.0	05/13/19 14:26	
2-Hexanone	ug/kg	ND	100	05/13/19 14:26	
2-Methylnaphthalene	ug/kg	ND	10.0	05/13/19 14:26	
4-Chlorotoluene	ug/kg	ND	5.0	05/13/19 14:26	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/13/19 14:26	
Acetone	ug/kg	ND	100	05/13/19 14:26	
Acrolein	ug/kg	ND	100	05/13/19 14:26	
Acrylonitrile	ug/kg	ND	100	05/13/19 14:26	
Benzene	ug/kg	ND	5.0	05/13/19 14:26	
Bromobenzene	ug/kg	ND	5.0	05/13/19 14:26	
Bromochloromethane	ug/kg	ND	5.0	05/13/19 14:26	
Bromodichloromethane	ug/kg	ND	5.0	05/13/19 14:26	
Bromoform	ug/kg	ND	5.0	05/13/19 14:26	
Bromomethane	ug/kg	ND	5.0	05/13/19 14:26	
Carbon disulfide	ug/kg	ND	10.0	05/13/19 14:26	
Carbon tetrachloride	ug/kg	ND	5.0	05/13/19 14:26	
Chlorobenzene	ug/kg	ND	5.0	05/13/19 14:26	
Chloroethane	ug/kg	ND	5.0	05/13/19 14:26	
Chloroform	ug/kg	ND	5.0	05/13/19 14:26	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN
Pace Project No.: 50224339

METHOD BLANK: 2304252 Matrix: Solid
Associated Lab Samples: 50224339005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	05/13/19 14:26	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/13/19 14:26	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/13/19 14:26	
Dibromochloromethane	ug/kg	ND	5.0	05/13/19 14:26	
Dibromomethane	ug/kg	ND	5.0	05/13/19 14:26	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/13/19 14:26	
Ethyl methacrylate	ug/kg	ND	100	05/13/19 14:26	
Ethylbenzene	ug/kg	ND	5.0	05/13/19 14:26	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/13/19 14:26	
Iodomethane	ug/kg	ND	100	05/13/19 14:26	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/13/19 14:26	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/13/19 14:26	
Methylene Chloride	ug/kg	ND	20.0	05/13/19 14:26	
n-Butylbenzene	ug/kg	ND	5.0	05/13/19 14:26	
n-Hexane	ug/kg	ND	5.0	05/13/19 14:26	
n-Propylbenzene	ug/kg	ND	5.0	05/13/19 14:26	
Naphthalene	ug/kg	ND	5.0	05/13/19 14:26	
p-Isopropyltoluene	ug/kg	ND	5.0	05/13/19 14:26	
sec-Butylbenzene	ug/kg	ND	5.0	05/13/19 14:26	
Styrene	ug/kg	ND	5.0	05/13/19 14:26	
tert-Butylbenzene	ug/kg	ND	5.0	05/13/19 14:26	
Tetrachloroethene	ug/kg	ND	5.0	05/13/19 14:26	
Toluene	ug/kg	ND	5.0	05/13/19 14:26	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/13/19 14:26	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/13/19 14:26	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/13/19 14:26	
Trichloroethene	ug/kg	ND	5.0	05/13/19 14:26	
Trichlorofluoromethane	ug/kg	ND	5.0	05/13/19 14:26	
Vinyl acetate	ug/kg	ND	100	05/13/19 14:26	
Vinyl chloride	ug/kg	ND	5.0	05/13/19 14:26	
Xylene (Total)	ug/kg	ND	10.0	05/13/19 14:26	
4-Bromofluorobenzene (S)	%	97	65-119	05/13/19 14:26	
Dibromofluoromethane (S)	%	119	77-131	05/13/19 14:26	
Toluene-d8 (S)	%	94	77-127	05/13/19 14:26	

LABORATORY CONTROL SAMPLE: 2304253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	49.6	99	81-122	
1,1,1-Trichloroethane	ug/kg	50	51.8	104	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.9	94	70-124	
1,1,2-Trichloroethane	ug/kg	50	50.7	101	77-122	
1,1-Dichloroethane	ug/kg	50	48.6	97	69-116	
1,1-Dichloroethene	ug/kg	50	53.0	106	70-127	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

LABORATORY CONTROL SAMPLE: 2304253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/kg	50	48.6	97	72-122	
1,2,3-Trichlorobenzene	ug/kg	50	48.1	96	56-118	
1,2,3-Trichloropropane	ug/kg	50	51.5	103	71-124	
1,2,4-Trichlorobenzene	ug/kg	50	49.5	99	50-123	
1,2,4-Trimethylbenzene	ug/kg	50	47.5	95	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	51.1	102	77-126	
1,2-Dichlorobenzene	ug/kg	50	46.1	92	73-115	
1,2-Dichloroethane	ug/kg	50	49.7	99	72-120	
1,2-Dichloropropane	ug/kg	50	47.2	94	77-125	
1,3,5-Trimethylbenzene	ug/kg	50	47.5	95	69-114	
1,3-Dichlorobenzene	ug/kg	50	47.0	94	66-115	
1,3-Dichloropropane	ug/kg	50	52.3	105	82-122	
1,4-Dichlorobenzene	ug/kg	50	44.8	90	66-114	
1-Methylnaphthalene	ug/kg	50	53.3	107	52-128	N2
2,2-Dichloropropane	ug/kg	50	51.2	102	60-126	
2-Butanone (MEK)	ug/kg	250	323	129	57-145	
2-Chlorotoluene	ug/kg	50	46.4	93	71-117	
2-Hexanone	ug/kg	250	292	117	64-127	
2-Methylnaphthalene	ug/kg	50	51.1	102	43-126	
4-Chlorotoluene	ug/kg	50	45.1	90	67-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	275	110	60-123	
Acetone	ug/kg	250	297	119	33-174	
Acrolein	ug/kg	1000	1470	147	11-200	
Acrylonitrile	ug/kg	200	211	105	64-123	
Benzene	ug/kg	50	47.8	96	74-119	
Bromobenzene	ug/kg	50	47.6	95	73-114	
Bromochloromethane	ug/kg	50	44.0	88	70-118	
Bromodichloromethane	ug/kg	50	47.8	96	73-120	
Bromoform	ug/kg	50	48.9	98	65-118	
Bromomethane	ug/kg	50	56.5	113	37-160	
Carbon disulfide	ug/kg	50	48.5	97	65-123	
Carbon tetrachloride	ug/kg	50	49.8	100	71-125	
Chlorobenzene	ug/kg	50	46.0	92	76-113	
Chloroethane	ug/kg	50	54.6	109	59-148	
Chloroform	ug/kg	50	46.0	92	71-117	
Chloromethane	ug/kg	50	50.6	101	49-112	
cis-1,2-Dichloroethene	ug/kg	50	47.0	94	70-122	
cis-1,3-Dichloropropene	ug/kg	50	52.8	106	75-120	
Dibromochloromethane	ug/kg	50	50.8	102	78-121	
Dibromomethane	ug/kg	50	51.6	103	75-125	
Dichlorodifluoromethane	ug/kg	50	61.1	122	34-163	
Ethyl methacrylate	ug/kg	200	232	116	63-132	
Ethylbenzene	ug/kg	50	47.8	96	73-118	
Hexachloro-1,3-butadiene	ug/kg	50	47.0	94	61-121	
Iodomethane	ug/kg	100	103	103	71-143	
Isopropylbenzene (Cumene)	ug/kg	50	50.1	100	74-121	
Methyl-tert-butyl ether	ug/kg	50	54.0	108	74-131	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

LABORATORY CONTROL SAMPLE: 2304253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	50	45.6	91	67-128	
n-Butylbenzene	ug/kg	50	46.5	93	61-116	
n-Hexane	ug/kg	50	51.8	104	59-119	
n-Propylbenzene	ug/kg	50	47.8	96	70-115	
Naphthalene	ug/kg	50	56.4	113	63-123	
p-Isopropyltoluene	ug/kg	50	48.0	96	68-117	
sec-Butylbenzene	ug/kg	50	47.1	94	72-117	
Styrene	ug/kg	50	50.1	100	75-120	
tert-Butylbenzene	ug/kg	50	36.2	72	55-100	
Tetrachloroethene	ug/kg	50	45.5	91	70-116	
Toluene	ug/kg	50	48.6	97	72-112	
trans-1,2-Dichloroethene	ug/kg	50	49.1	98	70-120	
trans-1,3-Dichloropropene	ug/kg	50	52.2	104	67-119	
trans-1,4-Dichloro-2-butene	ug/kg	200	195	98	57-124	
Trichloroethene	ug/kg	50	46.3	93	74-120	
Trichlorofluoromethane	ug/kg	50	55.4	111	59-139	
Vinyl acetate	ug/kg	200	199	100	70-134	
Vinyl chloride	ug/kg	50	57.8	116	58-133	
Xylene (Total)	ug/kg	150	148	99	71-119	
4-Bromofluorobenzene (S)	%			106	65-119	
Dibromofluoromethane (S)	%			101	77-131	
Toluene-d8 (S)	%			102	77-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2304254 2304255

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224339005 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/kg	ND	51.7	53.2	25.7	44.8	50	84	32-149	54	20	R1	
1,1,1-Trichloroethane	ug/kg	ND	51.7	53.2	42.3	50.7	82	95	48-141	18	20		
1,1,2,2-Tetrachloroethane	ug/kg	ND	51.7	53.2	43.5	135	84	254	14-173	103	20	M1,R1	
1,1,2-Trichloroethane	ug/kg	ND	51.7	53.2	39.9	64.6	77	121	34-157	47	20	R1	
1,1-Dichloroethane	ug/kg	ND	51.7	53.2	43.4	54.3	84	102	41-134	22	20	R1	
1,1-Dichloroethene	ug/kg	ND	51.7	53.2	47.9	55.3	93	104	43-151	14	20		
1,1-Dichloropropene	ug/kg	ND	51.7	53.2	38.1	49.3	74	93	39-145	26	20	R1	
1,2,3-Trichlorobenzene	ug/kg	ND	51.7	53.2	10.5	26.3	20	49	10-121	86	20	R1	
1,2,3-Trichloropropane	ug/kg	ND	51.7	53.2	41.0	102	79	192	32-167	85	20	M1,R1	
1,2,4-Trichlorobenzene	ug/kg	ND	51.7	53.2	11.1	21.8	22	41	10-116	65	20	R1	
1,2,4-Trimethylbenzene	ug/kg	ND	51.7	53.2	19.8	48.9	38	92	10-162	85	20	R1	
1,2-Dibromoethane (EDB)	ug/kg	ND	51.7	53.2	33.6	51.6	65	97	39-147	42	20	R1	
1,2-Dichlorobenzene	ug/kg	ND	51.7	53.2	15.4	41.0	30	77	10-139	91	20	R1	
1,2-Dichloroethane	ug/kg	ND	51.7	53.2	36.2	48.5	70	91	45-135	29	20	R1	
1,2-Dichloropropane	ug/kg	ND	51.7	53.2	38.4	55.9	74	105	41-147	37	20	R1	
1,3,5-Trimethylbenzene	ug/kg	ND	51.7	53.2	22.2	52.1	43	98	10-171	81	20	R1	
1,3-Dichlorobenzene	ug/kg	ND	51.7	53.2	15.8	42.0	31	79	10-143	91	20	R1	
1,3-Dichloropropane	ug/kg	ND	51.7	53.2	38.7	60.8	75	114	42-148	45	20	R1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2304254			2304255							
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	Max	Qual
		50224339005	Spike	Spike	MS							
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
1,4-Dichlorobenzene	ug/kg	ND	51.7	53.2	14.7	40.8	28	77	10-138	94	20	R1
1-Methylnaphthalene	ug/kg	67.2	51.7	53.2	22.7	70.4	-86	6	10-107	102	20	M1,N2, R1
2,2-Dichloropropane	ug/kg	ND	51.7	53.2	30.7	33.2	59	62	37-142	8	20	
2-Butanone (MEK)	ug/kg	ND	258	266	246	349	95	131	18-193	35	20	R1
2-Chlorotoluene	ug/kg	ND	51.7	53.2	21.9	61.0	42	115	10-170	94	20	R1
2-Hexanone	ug/kg	ND	258	266	187	287	72	108	29-165	42	20	R1
2-Methylnaphthalene	ug/kg	52.1	51.7	53.2	17.2	55.8	-67	7	10-92	106	20	M1,R1
4-Chlorotoluene	ug/kg	ND	51.7	53.2	17.4	50.4	34	95	10-160	97	20	R1
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	258	266	211	315	82	119	38-147	40	20	R1
Acetone	ug/kg	170	258	266	318	420	57	94	10-200	28	20	R1
Acrolein	ug/kg	ND	1030	1060	637	770	62	72	10-200	19	20	
Acrylonitrile	ug/kg	ND	207	213	96.5J	99.5J	47	47	21-149		20	
Benzene	ug/kg	ND	51.7	53.2	37.4	53.3	72	100	38-144	35	20	R1
Bromobenzene	ug/kg	ND	51.7	53.2	21.3	44.3	41	83	16-131	70	20	R1
Bromochloromethane	ug/kg	ND	51.7	53.2	36.2	47.4	70	89	46-130	27	20	R1
Bromodichloromethane	ug/kg	ND	51.7	53.2	26.1	31.3	51	59	23-144	18	20	
Bromoform	ug/kg	ND	51.7	53.2	18.4	36.4	36	69	10-160	66	20	R1
Bromomethane	ug/kg	ND	51.7	53.2	22.9	20.1	44	38	24-158	13	20	
Carbon disulfide	ug/kg	ND	51.7	53.2	37.3	45.6	72	86	33-142	20	20	
Carbon tetrachloride	ug/kg	ND	51.7	53.2	35.6	35.4	69	67	40-142	1	20	
Chlorobenzene	ug/kg	ND	51.7	53.2	24.1	48.5	47	91	30-134	67	20	R1
Chloroethane	ug/kg	ND	51.7	53.2	46.9	43.3	91	81	33-174	8	20	
Chloroform	ug/kg	ND	51.7	53.2	37.9	52.0	73	98	40-139	31	20	R1
Chloromethane	ug/kg	ND	51.7	53.2	22.1	21.6	43	41	27-129	2	20	
cis-1,2-Dichloroethene	ug/kg	10.2	51.7	53.2	45.6	61.9	69	97	43-136	30	20	R1
cis-1,3-Dichloropropene	ug/kg	ND	51.7	53.2	11.9	11.3	23	21	28-145	5	20	M1
Dibromochloromethane	ug/kg	ND	51.7	53.2	22.4	28.5	43	54	27-146	24	20	R1
Dibromomethane	ug/kg	ND	51.7	53.2	38.6	55.5	75	104	46-133	36	20	R1
Dichlorodifluoromethane	ug/kg	ND	51.7	53.2	55.4	53.2	107	100	19-185	4	20	
Ethyl methacrylate	ug/kg	ND	207	213	ND	ND	0	0	10-157		20	M1
Ethylbenzene	ug/kg	ND	51.7	53.2	25.8	48.0	50	90	23-146	60	20	R1
Hexachloro-1,3-butadiene	ug/kg	ND	51.7	53.2	13.7	17.8	27	33	10-167	26	20	R1
Iodomethane	ug/kg	ND	103	106	35.7J	25.3J	35	24	20-171		20	
Isopropylbenzene (Cumene)	ug/kg	ND	51.7	53.2	25.2	38.6	49	73	22-147	42	20	R1
Methyl-tert-butyl ether	ug/kg	ND	51.7	53.2	40.6	51.8	79	97	54-151	24	20	R1
Methylene Chloride	ug/kg	ND	51.7	53.2	42.3	53.1	82	100	35-148	23	20	R1
n-Butylbenzene	ug/kg	68.4	51.7	53.2	30.2	103	-74	66	10-170	110	20	M1,R1
n-Hexane	ug/kg	ND	51.7	53.2	54.5	53.4	105	100	24-157	2	20	
n-Propylbenzene	ug/kg	ND	51.7	53.2	24.0	54.3	45	100	10-173	78	20	R1
Naphthalene	ug/kg	27.8	51.7	53.2	18.6	54.8	-18	51	10-129	99	20	M1,R1
p-Isopropyltoluene	ug/kg	ND	51.7	53.2	18.6	35.4	29	59	10-179	62	20	R1
sec-Butylbenzene	ug/kg	27.8	51.7	53.2	25.7	69.0	-4	78	10-175	91	20	M1,R1
Styrene	ug/kg	ND	51.7	53.2	1.2J	5.7	2	11	12-140		20	M1

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Parameter	Units	2304254		2304255		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224339005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
tert-Butylbenzene	ug/kg	ND	51.7	53.2	17.3	36.9	33	69	10-150	73	20	R1	
Tetrachloroethene	ug/kg	ND	51.7	53.2	28.3	42.2	55	79	25-147	39	20	R1	
Toluene	ug/kg	ND	51.7	53.2	32.1	56.1	62	106	31-144	54	20	R1	
trans-1,2-Dichloroethene	ug/kg	ND	51.7	53.2	39.3	48.8	76	92	41-138	21	20	R1	
trans-1,3-Dichloropropene	ug/kg	ND	51.7	53.2	11.1	10.6	22	20	27-131	5	20	M1	
trans-1,4-Dichloro-2-butene	ug/kg	ND	207	213	27.3J	55J	13	26	10-143		20		
Trichloroethene	ug/kg	ND	51.7	53.2	33.8	48.9	65	92	22-167	37	20	R1	
Trichlorofluoromethane	ug/kg	ND	51.7	53.2	40.8	37.9	79	71	35-165	7	20		
Vinyl acetate	ug/kg	ND	207	213	18.9J	18.5J	9	9	10-131		20	M1	
Vinyl chloride	ug/kg	ND	51.7	53.2	48.0	48.9	93	92	40-150	2	20		
Xylene (Total)	ug/kg	ND	155	159	72.7	128	47	80	20-146	55	20	RS	
4-Bromofluorobenzene (S)	%						89	71	65-119				
Dibromofluoromethane (S)	%						99	98	77-131				
Toluene-d8 (S)	%						105	109	77-127				

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN
Pace Project No.: 50224339

QC Batch: 500010 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50224339004

METHOD BLANK: 2307110 Matrix: Solid
Associated Lab Samples: 50224339004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/14/19 02:10	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/14/19 02:10	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/14/19 02:10	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/14/19 02:10	
1,1-Dichloroethane	ug/kg	ND	5.0	05/14/19 02:10	
1,1-Dichloroethene	ug/kg	ND	5.0	05/14/19 02:10	
1,1-Dichloropropene	ug/kg	ND	5.0	05/14/19 02:10	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/14/19 02:10	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/14/19 02:10	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/14/19 02:10	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/14/19 02:10	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/14/19 02:10	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/14/19 02:10	
1,2-Dichloroethane	ug/kg	ND	5.0	05/14/19 02:10	
1,2-Dichloropropane	ug/kg	ND	5.0	05/14/19 02:10	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/14/19 02:10	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/14/19 02:10	
1,3-Dichloropropane	ug/kg	ND	5.0	05/14/19 02:10	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/14/19 02:10	
1-Methylnaphthalene	ug/kg	ND	10.0	05/14/19 02:10	N2
2,2-Dichloropropane	ug/kg	ND	5.0	05/14/19 02:10	
2-Butanone (MEK)	ug/kg	ND	25.0	05/14/19 02:10	
2-Chlorotoluene	ug/kg	ND	5.0	05/14/19 02:10	
2-Hexanone	ug/kg	ND	100	05/14/19 02:10	
2-Methylnaphthalene	ug/kg	ND	10.0	05/14/19 02:10	
4-Chlorotoluene	ug/kg	ND	5.0	05/14/19 02:10	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/14/19 02:10	
Acetone	ug/kg	ND	100	05/14/19 02:10	
Acrolein	ug/kg	ND	100	05/14/19 02:10	
Acrylonitrile	ug/kg	ND	100	05/14/19 02:10	
Benzene	ug/kg	ND	5.0	05/14/19 02:10	
Bromobenzene	ug/kg	ND	5.0	05/14/19 02:10	
Bromochloromethane	ug/kg	ND	5.0	05/14/19 02:10	
Bromodichloromethane	ug/kg	ND	5.0	05/14/19 02:10	
Bromoform	ug/kg	ND	5.0	05/14/19 02:10	
Bromomethane	ug/kg	ND	5.0	05/14/19 02:10	
Carbon disulfide	ug/kg	ND	10.0	05/14/19 02:10	
Carbon tetrachloride	ug/kg	ND	5.0	05/14/19 02:10	
Chlorobenzene	ug/kg	ND	5.0	05/14/19 02:10	
Chloroethane	ug/kg	ND	5.0	05/14/19 02:10	
Chloroform	ug/kg	ND	5.0	05/14/19 02:10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN
Pace Project No.: 50224339

METHOD BLANK: 2307110

Matrix: Solid

Associated Lab Samples: 50224339004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	05/14/19 02:10	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/14/19 02:10	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/14/19 02:10	
Dibromochloromethane	ug/kg	ND	5.0	05/14/19 02:10	
Dibromomethane	ug/kg	ND	5.0	05/14/19 02:10	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/14/19 02:10	
Ethyl methacrylate	ug/kg	ND	100	05/14/19 02:10	
Ethylbenzene	ug/kg	ND	5.0	05/14/19 02:10	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/14/19 02:10	
Iodomethane	ug/kg	ND	100	05/14/19 02:10	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/14/19 02:10	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/14/19 02:10	
Methylene Chloride	ug/kg	ND	20.0	05/14/19 02:10	
n-Butylbenzene	ug/kg	ND	5.0	05/14/19 02:10	
n-Hexane	ug/kg	ND	5.0	05/14/19 02:10	
n-Propylbenzene	ug/kg	ND	5.0	05/14/19 02:10	
Naphthalene	ug/kg	ND	5.0	05/14/19 02:10	
p-Isopropyltoluene	ug/kg	ND	5.0	05/14/19 02:10	
sec-Butylbenzene	ug/kg	ND	5.0	05/14/19 02:10	
Styrene	ug/kg	ND	5.0	05/14/19 02:10	
tert-Butylbenzene	ug/kg	ND	5.0	05/14/19 02:10	
Tetrachloroethene	ug/kg	ND	5.0	05/14/19 02:10	
Toluene	ug/kg	ND	5.0	05/14/19 02:10	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/14/19 02:10	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/14/19 02:10	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/14/19 02:10	
Trichloroethene	ug/kg	ND	5.0	05/14/19 02:10	
Trichlorofluoromethane	ug/kg	ND	5.0	05/14/19 02:10	
Vinyl acetate	ug/kg	ND	100	05/14/19 02:10	
Vinyl chloride	ug/kg	ND	5.0	05/14/19 02:10	
Xylene (Total)	ug/kg	ND	10.0	05/14/19 02:10	
4-Bromofluorobenzene (S)	%	102	65-119	05/14/19 02:10	
Dibromofluoromethane (S)	%	110	77-131	05/14/19 02:10	
Toluene-d8 (S)	%	99	77-127	05/14/19 02:10	

LABORATORY CONTROL SAMPLE: 2307111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	47.3	95	81-122	
1,1,1-Trichloroethane	ug/kg	50	44.7	89	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.2	102	70-124	
1,1,2-Trichloroethane	ug/kg	50	52.5	105	77-122	
1,1-Dichloroethane	ug/kg	50	44.5	89	69-116	
1,1-Dichloroethene	ug/kg	50	45.3	91	70-127	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

LABORATORY CONTROL SAMPLE: 2307111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/kg	50	44.6	89	72-122	
1,2,3-Trichlorobenzene	ug/kg	50	38.8	78	56-118	
1,2,3-Trichloropropane	ug/kg	50	51.7	103	71-124	
1,2,4-Trichlorobenzene	ug/kg	50	37.2	74	50-123	
1,2,4-Trimethylbenzene	ug/kg	50	43.6	87	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	48.6	97	77-126	
1,2-Dichlorobenzene	ug/kg	50	42.1	84	73-115	
1,2-Dichloroethane	ug/kg	50	42.6	85	72-120	
1,2-Dichloropropane	ug/kg	50	49.6	99	77-125	
1,3,5-Trimethylbenzene	ug/kg	50	43.6	87	69-114	
1,3-Dichlorobenzene	ug/kg	50	41.6	83	66-115	
1,3-Dichloropropane	ug/kg	50	52.7	105	82-122	
1,4-Dichlorobenzene	ug/kg	50	39.6	79	66-114	
1-Methylnaphthalene	ug/kg	50	47.7	95	52-128	N2
2,2-Dichloropropane	ug/kg	50	41.3	83	60-126	
2-Butanone (MEK)	ug/kg	250	257	103	57-145	
2-Chlorotoluene	ug/kg	50	43.6	87	71-117	
2-Hexanone	ug/kg	250	250	100	64-127	
2-Methylnaphthalene	ug/kg	50	43.9	88	43-126	
4-Chlorotoluene	ug/kg	50	41.9	84	67-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	252	101	60-123	
Acetone	ug/kg	250	202	81	33-174	
Acrolein	ug/kg	1000	1190	119	11-200	
Acrylonitrile	ug/kg	200	181	91	64-123	
Benzene	ug/kg	50	47.3	95	74-119	
Bromobenzene	ug/kg	50	43.8	88	73-114	
Bromochloromethane	ug/kg	50	43.4	87	70-118	
Bromodichloromethane	ug/kg	50	44.4	89	73-120	
Bromoform	ug/kg	50	48.2	96	65-118	
Bromomethane	ug/kg	50	54.8	110	37-160	
Carbon disulfide	ug/kg	50	43.6	87	65-123	
Carbon tetrachloride	ug/kg	50	41.6	83	71-125	
Chlorobenzene	ug/kg	50	43.1	86	76-113	
Chloroethane	ug/kg	50	41.2	82	59-148	
Chloroform	ug/kg	50	43.3	87	71-117	
Chloromethane	ug/kg	50	40.1	80	49-112	
cis-1,2-Dichloroethene	ug/kg	50	45.9	92	70-122	
cis-1,3-Dichloropropene	ug/kg	50	47.4	95	75-120	
Dibromochloromethane	ug/kg	50	47.6	95	78-121	
Dibromomethane	ug/kg	50	48.3	97	75-125	
Dichlorodifluoromethane	ug/kg	50	47.9	96	34-163	
Ethyl methacrylate	ug/kg	200	225	112	63-132	
Ethylbenzene	ug/kg	50	44.3	89	73-118	
Hexachloro-1,3-butadiene	ug/kg	50	37.2	74	61-121	
Iodomethane	ug/kg	100	98.7J	99	71-143	
Isopropylbenzene (Cumene)	ug/kg	50	43.9	88	74-121	
Methyl-tert-butyl ether	ug/kg	50	53.3	107	74-131	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

LABORATORY CONTROL SAMPLE: 2307111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	50	50.2	100	67-128	
n-Butylbenzene	ug/kg	50	38.7	77	61-116	
n-Hexane	ug/kg	50	42.7	85	59-119	
n-Propylbenzene	ug/kg	50	42.9	86	70-115	
Naphthalene	ug/kg	50	44.2	88	63-123	
p-Isopropyltoluene	ug/kg	50	42.3	85	68-117	
sec-Butylbenzene	ug/kg	50	44.0	88	72-117	
Styrene	ug/kg	50	45.9	92	75-120	
tert-Butylbenzene	ug/kg	50	33.7	67	55-100	
Tetrachloroethene	ug/kg	50	38.7	77	70-116	
Toluene	ug/kg	50	46.8	94	72-112	
trans-1,2-Dichloroethene	ug/kg	50	44.2	88	70-120	
trans-1,3-Dichloropropene	ug/kg	50	44.1	88	67-119	
trans-1,4-Dichloro-2-butene	ug/kg	200	164	82	57-124	
Trichloroethene	ug/kg	50	43.7	87	74-120	
Trichlorofluoromethane	ug/kg	50	41.4	83	59-139	
Vinyl acetate	ug/kg	200	168	84	70-134	
Vinyl chloride	ug/kg	50	48.0	96	58-133	
Xylene (Total)	ug/kg	150	133	89	71-119	
4-Bromofluorobenzene (S)	%			100	65-119	
Dibromofluoromethane (S)	%			93	77-131	
Toluene-d8 (S)	%			102	77-127	

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QUALITY CONTROL DATA

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

QC Batch: 500146

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50224339004, 50224339005

SAMPLE DUPLICATE: 2307513

Parameter	Units	50224337013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.3	6.7	10	5	R1

SAMPLE DUPLICATE: 2307514

Parameter	Units	50224339005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.1	13.9	1	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

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QUALIFIERS

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

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

ANALYTE QUALIFIERS

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

R1 RPD value was outside control limits.

RS The RPD value in one of the constituent analytes was outside the control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Meritor - Franklin, IN

Pace Project No.: 50224339

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50224339001	Trip Blank (050819)	EPA 5030/8260	499656		
50224339002	SB-7 (17-13) GW	EPA 5030/8260	499470		
50224339003	SB-8 (16-12) GW	EPA 5030/8260	499656		
50224339004	SB-7 (2-4)	EPA 8260	500010		
50224339005	SB-7 (4-6)	EPA 8260	499482		
50224339004	SB-7 (2-4)	SM 2540G	500146		
50224339005	SB-7 (4-6)	SM 2540G	500146		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical[®]
CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50224339

ALL SHADED AREAS are for LAB USE ONLY

Company: **ARCADIS** Billing Information: **ACCTS PAY**
ARCADIS
INTERLAKEN RANCH, CO

Address: **150 W. MARKET STE. 800**
INDIANAPOLIS, IN 46204

Report To: **RANDALL WOODRUFF** Email To:

Copy To: **JON ACEN** Site Collection Info/Address: **FORNER MEADOWS-FRANKLIN, IN**

Customer Project Name/Number: **IN001342.0001** State: **IN** County/City: **FRANKLIN** Time Zone Collected: [] PT [] MT [] CT [X] ET

Phone: Site/Facility ID #: Compliance Monitoring? [] Yes [X] No

Email: **317-231-6000**

Collected By (print): **RANDALL WOODRUFF** Purchase Order #: DW PWS ID #: DW Location Code:

Collected By (signature): *[Signature]* Turnaround Date Required: **1 WEEK** Immediately Packed on Ice: [X] Yes [] No

Sample Disposal: [X] Dispose as appropriate [] Return [] Archive: [] Hold: [] 2 Day [] 3 Day [] 4 Day [X] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [] Yes [X] No Analysis:

Container Preservative Type ** Lab Project Manager: **JELLY JONES**

3 *[initials]*

** 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 **DE 120**

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:										
VOCs 8260										
VOCs 5035										

* 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)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
Trip Blank (050819)	GW	-			5-8-19	-	3	X
SB-7 (2-4)	SB	GRAB			"	0855	4	X
SB-7 (4-6)	SB	GRAB			"	0900	12	X
SB-7 (17-13) GW	GW	GRAB			"	1300	9	X
SB-8 (16-12) GW	GW	GRAB			"	1710	3	X
SB-8 ()								

Customer Remarks / Special Conditions / Possible Hazards: **LEVEL IV QAC**

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 #: **2397283**

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **5-9-19/ 7:35**

Received by/Company: (Signature) *[Signature]* Date/Time: **5/9/19 7:35**

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: _____

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: **E**

Cooler 1 Temp Upon Receipt: **1.9** oC

Cooler 1 Therm Corr. Factor: **0.0** oC

Cooler 1 Corrected Temp: **1.9** oC

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Page 37 of 39

Non Conformance(s): YES / NO

Page: **1**

of: **1**



SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50224339 **Date/Time and Initials of person examining contents:** Juk 5-9-19 0820

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 (E) **Ice Type:** Wet Blue None | **Samples collected today and on ice:** Yes No N/A

Cooler Temperature: 1.9 / 1.9 **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.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		x	All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			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)?: Analysis: <u>T.C.</u>	x		Headspace Wisconsin Sulfide			x
Time 5035A TC placed in Freezer or Short Holds To Lab:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
			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 Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	x		Trip Blank Custody Seals?:	x		

Comments:

Sample Container Count

WO#: 50224339



50224339

CLIENT: Arcadis

COC PAGE 1 of 1

COC ID# _____

Project # 50224339

Sample Line Item	DG9H DG9T	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	SBS	Bulk Kit	Matrix S/N (Soil/Water Aqueous)	pH <2	pH >9	pH >12
1	3																				WT		
2																			4		SL		
3																			12		↓		
4	9																				WT		
5	3																				↓		
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

May 17, 2019

Mr. Jon Akin
Arcadis U.S., Inc.
150 West Market Street
Suite 700
Indianapolis, IN 46204

RE: Project: IN001342.0001
Pace Project No.: 50224516

Dear Mr. Akin:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2019. 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: Randall Woodruff, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IN001342.0001

Pace Project No.: 50224516

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

Michigan Department of Environmental Quality, Laboratory
#9050

Ohio VAP Certification #: CL0065

Oklahoma Certification #: 2018-101

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IN001342.0001

Pace Project No.: 50224516

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50224516001	SB-9 (2-0)	Solid	05/09/19 11:42	05/09/19 17:40
50224516002	SB-9 (4-2)	Solid	05/09/19 11:48	05/09/19 17:40
50224516003	SB-10 (2-0)	Solid	05/09/19 16:29	05/09/19 17:40
50224516004	SB-10 (4-2)	Solid	05/09/19 16:33	05/09/19 17:40
50224516005	DUP-5(050919)	Solid	05/09/19 08:00	05/09/19 17:40
50224516006	SB-9 (16-12)GW	Water	05/09/19 13:44	05/09/19 17:40
50224516007	TB-4(050919)	Water	05/09/19 13:30	05/09/19 17:40
50224516008	SB-10(16-12)GW	Water	05/09/19 16:41	05/09/19 17:40
50224516009	DUP-4(050919)	Water	05/09/19 08:00	05/09/19 17:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: IN001342.0001

Pace Project No.: 50224516

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50224516001	SB-9 (2-0)	EPA 8260	JLZ	75
		SM 2540G	RM1	1
50224516002	SB-9 (4-2)	EPA 8260	JLZ	75
		SM 2540G	RM1	1
50224516003	SB-10 (2-0)	EPA 8260	JLZ	75
		SM 2540G	RM1	1
50224516004	SB-10 (4-2)	EPA 8260	JLZ	75
		SM 2540G	RM1	1
50224516005	DUP-5(050919)	EPA 8260	JLZ	75
		SM 2540G	RM1	1
50224516006	SB-9 (16-12)GW	EPA 5030/8260	KRM1	75
50224516007	TB-4(050919)	EPA 5030/8260	KRM1	75
50224516008	SB-10(16-12)GW	EPA 5030/8260	KRM1	75
50224516009	DUP-4(050919)	EPA 5030/8260	KRM1	75

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IN001342.0001

Pace Project No.: 50224516

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50224516001	SB-9 (2-0)					
SM 2540G	Percent Moisture	21.3	%	0.10	05/14/19 15:39	
50224516002	SB-9 (4-2)					
SM 2540G	Percent Moisture	16.3	%	0.10	05/14/19 15:39	
50224516003	SB-10 (2-0)					
SM 2540G	Percent Moisture	16.2	%	0.10	05/14/19 15:39	
50224516004	SB-10 (4-2)					
SM 2540G	Percent Moisture	19.1	%	0.10	05/14/19 15:40	
50224516005	DUP-5(050919)					
EPA 8260	n-Hexane	8.3	ug/kg	5.0	05/14/19 06:29	
SM 2540G	Percent Moisture	20.5	%	0.10	05/14/19 15:40	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-9 (2-0) **Lab ID: 50224516001** Collected: 05/09/19 11:42 Received: 05/09/19 17:40 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	110	1		05/14/19 04:26	67-64-1	
Acrolein	ND	ug/kg	110	1		05/14/19 04:26	107-02-8	
Acrylonitrile	ND	ug/kg	110	1		05/14/19 04:26	107-13-1	
Benzene	ND	ug/kg	5.5	1		05/14/19 04:26	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		05/14/19 04:26	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		05/14/19 04:26	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		05/14/19 04:26	75-27-4	
Bromoform	ND	ug/kg	5.5	1		05/14/19 04:26	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		05/14/19 04:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.6	1		05/14/19 04:26	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		05/14/19 04:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		05/14/19 04:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		05/14/19 04:26	98-06-6	
Carbon disulfide	ND	ug/kg	11.0	1		05/14/19 04:26	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		05/14/19 04:26	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		05/14/19 04:26	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		05/14/19 04:26	75-00-3	
Chloroform	ND	ug/kg	5.5	1		05/14/19 04:26	67-66-3	
Chloromethane	ND	ug/kg	5.5	1		05/14/19 04:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		05/14/19 04:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		05/14/19 04:26	106-43-4	
Dibromochloromethane	ND	ug/kg	5.5	1		05/14/19 04:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		05/14/19 04:26	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		05/14/19 04:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		05/14/19 04:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		05/14/19 04:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		05/14/19 04:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	110	1		05/14/19 04:26	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		05/14/19 04:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		05/14/19 04:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		05/14/19 04:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		05/14/19 04:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		05/14/19 04:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		05/14/19 04:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		05/14/19 04:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		05/14/19 04:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		05/14/19 04:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		05/14/19 04:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		05/14/19 04:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		05/14/19 04:26	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		05/14/19 04:26	100-41-4	
Ethyl methacrylate	ND	ug/kg	110	1		05/14/19 04:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		05/14/19 04:26	87-68-3	
n-Hexane	ND	ug/kg	5.5	1		05/14/19 04:26	110-54-3	
2-Hexanone	ND	ug/kg	110	1		05/14/19 04:26	591-78-6	
Iodomethane	ND	ug/kg	110	1		05/14/19 04:26	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-9 (2-0) **Lab ID: 50224516001** Collected: 05/09/19 11:42 Received: 05/09/19 17:40 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	5.5	1		05/14/19 04:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		05/14/19 04:26	99-87-6	
Methylene Chloride	ND	ug/kg	22.1	1		05/14/19 04:26	75-09-2	
1-Methylnaphthalene	ND	ug/kg	11.0	1		05/14/19 04:26	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	11.0	1		05/14/19 04:26	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.6	1		05/14/19 04:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		05/14/19 04:26	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		05/14/19 04:26	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		05/14/19 04:26	103-65-1	
Styrene	ND	ug/kg	5.5	1		05/14/19 04:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		05/14/19 04:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		05/14/19 04:26	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		05/14/19 04:26	127-18-4	
Toluene	ND	ug/kg	5.5	1		05/14/19 04:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		05/14/19 04:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		05/14/19 04:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		05/14/19 04:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		05/14/19 04:26	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		05/14/19 04:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		05/14/19 04:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		05/14/19 04:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		05/14/19 04:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		05/14/19 04:26	108-67-8	
Vinyl acetate	ND	ug/kg	110	1		05/14/19 04:26	108-05-4	
Vinyl chloride	ND	ug/kg	5.5	1		05/14/19 04:26	75-01-4	
Xylene (Total)	ND	ug/kg	11.0	1		05/14/19 04:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	77-131	1		05/14/19 04:26	1868-53-7	
Toluene-d8 (S)	96	%.	77-127	1		05/14/19 04:26	2037-26-5	
4-Bromofluorobenzene (S)	83	%.	65-119	1		05/14/19 04:26	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	21.3	%	0.10	1		05/14/19 15:39		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-9 (4-2) **Lab ID: 50224516002** Collected: 05/09/19 11:48 Received: 05/09/19 17:40 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	95.3	1		05/14/19 04:57	67-64-1	
Acrolein	ND	ug/kg	95.3	1		05/14/19 04:57	107-02-8	
Acrylonitrile	ND	ug/kg	95.3	1		05/14/19 04:57	107-13-1	
Benzene	ND	ug/kg	4.8	1		05/14/19 04:57	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		05/14/19 04:57	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		05/14/19 04:57	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		05/14/19 04:57	75-27-4	
Bromoform	ND	ug/kg	4.8	1		05/14/19 04:57	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		05/14/19 04:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.8	1		05/14/19 04:57	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		05/14/19 04:57	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		05/14/19 04:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		05/14/19 04:57	98-06-6	
Carbon disulfide	ND	ug/kg	9.5	1		05/14/19 04:57	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		05/14/19 04:57	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		05/14/19 04:57	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		05/14/19 04:57	75-00-3	
Chloroform	ND	ug/kg	4.8	1		05/14/19 04:57	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		05/14/19 04:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		05/14/19 04:57	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		05/14/19 04:57	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		05/14/19 04:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		05/14/19 04:57	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		05/14/19 04:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		05/14/19 04:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		05/14/19 04:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		05/14/19 04:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.3	1		05/14/19 04:57	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		05/14/19 04:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		05/14/19 04:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		05/14/19 04:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		05/14/19 04:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/14/19 04:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/14/19 04:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		05/14/19 04:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		05/14/19 04:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		05/14/19 04:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		05/14/19 04:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/14/19 04:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/14/19 04:57	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		05/14/19 04:57	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.3	1		05/14/19 04:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		05/14/19 04:57	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		05/14/19 04:57	110-54-3	
2-Hexanone	ND	ug/kg	95.3	1		05/14/19 04:57	591-78-6	
Iodomethane	ND	ug/kg	95.3	1		05/14/19 04:57	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-9 (4-2) **Lab ID: 50224516002** Collected: 05/09/19 11:48 Received: 05/09/19 17:40 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		05/14/19 04:57	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		05/14/19 04:57	99-87-6	
Methylene Chloride	ND	ug/kg	19.1	1		05/14/19 04:57	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.5	1		05/14/19 04:57	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	9.5	1		05/14/19 04:57	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.8	1		05/14/19 04:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		05/14/19 04:57	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		05/14/19 04:57	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		05/14/19 04:57	103-65-1	
Styrene	ND	ug/kg	4.8	1		05/14/19 04:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/14/19 04:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/14/19 04:57	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		05/14/19 04:57	127-18-4	
Toluene	ND	ug/kg	4.8	1		05/14/19 04:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		05/14/19 04:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		05/14/19 04:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		05/14/19 04:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		05/14/19 04:57	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		05/14/19 04:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		05/14/19 04:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		05/14/19 04:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		05/14/19 04:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		05/14/19 04:57	108-67-8	
Vinyl acetate	ND	ug/kg	95.3	1		05/14/19 04:57	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		05/14/19 04:57	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		05/14/19 04:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	77-131	1		05/14/19 04:57	1868-53-7	
Toluene-d8 (S)	95	%.	77-127	1		05/14/19 04:57	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	65-119	1		05/14/19 04:57	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	16.3	%	0.10	1		05/14/19 15:39		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-10 (2-0) **Lab ID: 50224516003** Collected: 05/09/19 16:29 Received: 05/09/19 17:40 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	95.0	1		05/14/19 05:27	67-64-1	
Acrolein	ND	ug/kg	95.0	1		05/14/19 05:27	107-02-8	
Acrylonitrile	ND	ug/kg	95.0	1		05/14/19 05:27	107-13-1	
Benzene	ND	ug/kg	4.8	1		05/14/19 05:27	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		05/14/19 05:27	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		05/14/19 05:27	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		05/14/19 05:27	75-27-4	
Bromoform	ND	ug/kg	4.8	1		05/14/19 05:27	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		05/14/19 05:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.8	1		05/14/19 05:27	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		05/14/19 05:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		05/14/19 05:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		05/14/19 05:27	98-06-6	
Carbon disulfide	ND	ug/kg	9.5	1		05/14/19 05:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		05/14/19 05:27	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		05/14/19 05:27	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		05/14/19 05:27	75-00-3	
Chloroform	ND	ug/kg	4.8	1		05/14/19 05:27	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		05/14/19 05:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		05/14/19 05:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		05/14/19 05:27	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		05/14/19 05:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		05/14/19 05:27	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		05/14/19 05:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		05/14/19 05:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		05/14/19 05:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		05/14/19 05:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.0	1		05/14/19 05:27	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		05/14/19 05:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		05/14/19 05:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		05/14/19 05:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		05/14/19 05:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/14/19 05:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/14/19 05:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		05/14/19 05:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		05/14/19 05:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		05/14/19 05:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		05/14/19 05:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/14/19 05:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/14/19 05:27	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		05/14/19 05:27	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.0	1		05/14/19 05:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		05/14/19 05:27	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		05/14/19 05:27	110-54-3	
2-Hexanone	ND	ug/kg	95.0	1		05/14/19 05:27	591-78-6	
Iodomethane	ND	ug/kg	95.0	1		05/14/19 05:27	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-10 (2-0) **Lab ID: 50224516003** Collected: 05/09/19 16:29 Received: 05/09/19 17:40 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		05/14/19 05:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		05/14/19 05:27	99-87-6	
Methylene Chloride	ND	ug/kg	19.0	1		05/14/19 05:27	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.5	1		05/14/19 05:27	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	9.5	1		05/14/19 05:27	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.8	1		05/14/19 05:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		05/14/19 05:27	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		05/14/19 05:27	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		05/14/19 05:27	103-65-1	
Styrene	ND	ug/kg	4.8	1		05/14/19 05:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/14/19 05:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/14/19 05:27	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		05/14/19 05:27	127-18-4	
Toluene	ND	ug/kg	4.8	1		05/14/19 05:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		05/14/19 05:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		05/14/19 05:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		05/14/19 05:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		05/14/19 05:27	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		05/14/19 05:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		05/14/19 05:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		05/14/19 05:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		05/14/19 05:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		05/14/19 05:27	108-67-8	
Vinyl acetate	ND	ug/kg	95.0	1		05/14/19 05:27	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		05/14/19 05:27	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		05/14/19 05:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	77-131	1		05/14/19 05:27	1868-53-7	
Toluene-d8 (S)	97	%.	77-127	1		05/14/19 05:27	2037-26-5	
4-Bromofluorobenzene (S)	84	%.	65-119	1		05/14/19 05:27	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	16.2	%	0.10	1		05/14/19 15:39		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-10 (4-2) **Lab ID: 50224516004** Collected: 05/09/19 16:33 Received: 05/09/19 17:40 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	109	1		05/14/19 05:58	67-64-1	
Acrolein	ND	ug/kg	109	1		05/14/19 05:58	107-02-8	
Acrylonitrile	ND	ug/kg	109	1		05/14/19 05:58	107-13-1	
Benzene	ND	ug/kg	5.4	1		05/14/19 05:58	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		05/14/19 05:58	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		05/14/19 05:58	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		05/14/19 05:58	75-27-4	
Bromoform	ND	ug/kg	5.4	1		05/14/19 05:58	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		05/14/19 05:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.2	1		05/14/19 05:58	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		05/14/19 05:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		05/14/19 05:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		05/14/19 05:58	98-06-6	
Carbon disulfide	ND	ug/kg	10.9	1		05/14/19 05:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		05/14/19 05:58	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		05/14/19 05:58	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		05/14/19 05:58	75-00-3	
Chloroform	ND	ug/kg	5.4	1		05/14/19 05:58	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		05/14/19 05:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		05/14/19 05:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		05/14/19 05:58	106-43-4	
Dibromochloromethane	ND	ug/kg	5.4	1		05/14/19 05:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		05/14/19 05:58	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		05/14/19 05:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		05/14/19 05:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		05/14/19 05:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		05/14/19 05:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	109	1		05/14/19 05:58	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		05/14/19 05:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		05/14/19 05:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		05/14/19 05:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		05/14/19 05:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		05/14/19 05:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		05/14/19 05:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		05/14/19 05:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		05/14/19 05:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		05/14/19 05:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		05/14/19 05:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		05/14/19 05:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		05/14/19 05:58	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		05/14/19 05:58	100-41-4	
Ethyl methacrylate	ND	ug/kg	109	1		05/14/19 05:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		05/14/19 05:58	87-68-3	
n-Hexane	ND	ug/kg	5.4	1		05/14/19 05:58	110-54-3	
2-Hexanone	ND	ug/kg	109	1		05/14/19 05:58	591-78-6	
Iodomethane	ND	ug/kg	109	1		05/14/19 05:58	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-10 (4-2) **Lab ID: 50224516004** Collected: 05/09/19 16:33 Received: 05/09/19 17:40 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	5.4	1		05/14/19 05:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		05/14/19 05:58	99-87-6	
Methylene Chloride	ND	ug/kg	21.8	1		05/14/19 05:58	75-09-2	
1-Methylnaphthalene	ND	ug/kg	10.9	1		05/14/19 05:58	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	10.9	1		05/14/19 05:58	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.2	1		05/14/19 05:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		05/14/19 05:58	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		05/14/19 05:58	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		05/14/19 05:58	103-65-1	
Styrene	ND	ug/kg	5.4	1		05/14/19 05:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		05/14/19 05:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		05/14/19 05:58	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		05/14/19 05:58	127-18-4	
Toluene	ND	ug/kg	5.4	1		05/14/19 05:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		05/14/19 05:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		05/14/19 05:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		05/14/19 05:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		05/14/19 05:58	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		05/14/19 05:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		05/14/19 05:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		05/14/19 05:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		05/14/19 05:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		05/14/19 05:58	108-67-8	
Vinyl acetate	ND	ug/kg	109	1		05/14/19 05:58	108-05-4	
Vinyl chloride	ND	ug/kg	5.4	1		05/14/19 05:58	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1		05/14/19 05:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	77-131	1		05/14/19 05:58	1868-53-7	
Toluene-d8 (S)	100	%.	77-127	1		05/14/19 05:58	2037-26-5	
4-Bromofluorobenzene (S)	86	%.	65-119	1		05/14/19 05:58	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	19.1	%	0.10	1		05/14/19 15:40		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: DUP-5(050919) **Lab ID: 50224516005** Collected: 05/09/19 08:00 Received: 05/09/19 17:40 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	99.4	1		05/14/19 06:29	67-64-1	
Acrolein	ND	ug/kg	99.4	1		05/14/19 06:29	107-02-8	
Acrylonitrile	ND	ug/kg	99.4	1		05/14/19 06:29	107-13-1	
Benzene	ND	ug/kg	5.0	1		05/14/19 06:29	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/14/19 06:29	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/14/19 06:29	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/14/19 06:29	75-27-4	
Bromoform	ND	ug/kg	5.0	1		05/14/19 06:29	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		05/14/19 06:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.8	1		05/14/19 06:29	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		05/14/19 06:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		05/14/19 06:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/14/19 06:29	98-06-6	
Carbon disulfide	ND	ug/kg	9.9	1		05/14/19 06:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/14/19 06:29	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/14/19 06:29	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		05/14/19 06:29	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/14/19 06:29	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		05/14/19 06:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/14/19 06:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/14/19 06:29	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		05/14/19 06:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/14/19 06:29	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/14/19 06:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/14/19 06:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/14/19 06:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/14/19 06:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	99.4	1		05/14/19 06:29	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		05/14/19 06:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/14/19 06:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/14/19 06:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/14/19 06:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/14/19 06:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/14/19 06:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/14/19 06:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/14/19 06:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/14/19 06:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/14/19 06:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/14/19 06:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/14/19 06:29	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		05/14/19 06:29	100-41-4	
Ethyl methacrylate	ND	ug/kg	99.4	1		05/14/19 06:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/14/19 06:29	87-68-3	
n-Hexane	8.3	ug/kg	5.0	1		05/14/19 06:29	110-54-3	
2-Hexanone	ND	ug/kg	99.4	1		05/14/19 06:29	591-78-6	
Iodomethane	ND	ug/kg	99.4	1		05/14/19 06:29	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: DUP-5(050919) **Lab ID: 50224516005** Collected: 05/09/19 08:00 Received: 05/09/19 17:40 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	5.0	1		05/14/19 06:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/14/19 06:29	99-87-6	
Methylene Chloride	ND	ug/kg	19.9	1		05/14/19 06:29	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.9	1		05/14/19 06:29	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	9.9	1		05/14/19 06:29	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.8	1		05/14/19 06:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/14/19 06:29	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/14/19 06:29	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		05/14/19 06:29	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/14/19 06:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/14/19 06:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/14/19 06:29	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/14/19 06:29	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/14/19 06:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/14/19 06:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/14/19 06:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/14/19 06:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/14/19 06:29	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/14/19 06:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/14/19 06:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/14/19 06:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/14/19 06:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/14/19 06:29	108-67-8	
Vinyl acetate	ND	ug/kg	99.4	1		05/14/19 06:29	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		05/14/19 06:29	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		05/14/19 06:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	77-131	1		05/14/19 06:29	1868-53-7	
Toluene-d8 (S)	104	%.	77-127	1		05/14/19 06:29	2037-26-5	
4-Bromofluorobenzene (S)	88	%.	65-119	1		05/14/19 06:29	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	20.5	%	0.10	1		05/14/19 15:40		

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-9 (16-12)GW	Lab ID: 50224516006	Collected: 05/09/19 13:44	Received: 05/09/19 17:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/14/19 23:57	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/14/19 23:57	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/14/19 23:57	107-13-1	
Benzene	ND	ug/L	5.0	1		05/14/19 23:57	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/14/19 23:57	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/14/19 23:57	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/14/19 23:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/14/19 23:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/14/19 23:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/14/19 23:57	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/14/19 23:57	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/14/19 23:57	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/14/19 23:57	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/14/19 23:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/14/19 23:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/14/19 23:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/14/19 23:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/14/19 23:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/14/19 23:57	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/14/19 23:57	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/14/19 23:57	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/14/19 23:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/14/19 23:57	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/14/19 23:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/14/19 23:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/14/19 23:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/14/19 23:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/14/19 23:57	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/14/19 23:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/14/19 23:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/14/19 23:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/14/19 23:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/14/19 23:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/14/19 23:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/14/19 23:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/14/19 23:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/14/19 23:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/14/19 23:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/14/19 23:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/14/19 23:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/14/19 23:57	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/14/19 23:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/14/19 23:57	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/14/19 23:57	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/14/19 23:57	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/14/19 23:57	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/14/19 23:57	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-9 (16-12)GW	Lab ID: 50224516006	Collected: 05/09/19 13:44	Received: 05/09/19 17:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/14/19 23:57	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/14/19 23:57	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/14/19 23:57	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/14/19 23:57	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/14/19 23:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/14/19 23:57	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/14/19 23:57	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/14/19 23:57	103-65-1	
Styrene	ND	ug/L	5.0	1		05/14/19 23:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/14/19 23:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/14/19 23:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/14/19 23:57	127-18-4	
Toluene	ND	ug/L	5.0	1		05/14/19 23:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/14/19 23:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/14/19 23:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/14/19 23:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/14/19 23:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/14/19 23:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/14/19 23:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/14/19 23:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/14/19 23:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/14/19 23:57	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/14/19 23:57	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/14/19 23:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/14/19 23:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	80-122	1		05/14/19 23:57	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	85-114	1		05/14/19 23:57	460-00-4	
Toluene-d8 (S)	95	%.	85-114	1		05/14/19 23:57	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: TB-4(050919) **Lab ID: 50224516007** Collected: 05/09/19 13:30 Received: 05/09/19 17:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/13/19 16:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/13/19 16:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/13/19 16:27	107-13-1	
Benzene	ND	ug/L	5.0	1		05/13/19 16:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/13/19 16:27	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/13/19 16:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/13/19 16:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/13/19 16:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/13/19 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/13/19 16:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/13/19 16:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/13/19 16:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/13/19 16:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/13/19 16:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/13/19 16:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/13/19 16:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/13/19 16:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/13/19 16:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/13/19 16:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/13/19 16:27	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/13/19 16:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/13/19 16:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/13/19 16:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/13/19 16:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/13/19 16:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/13/19 16:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/13/19 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/13/19 16:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/13/19 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/13/19 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/13/19 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/13/19 16:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/13/19 16:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/13/19 16:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/13/19 16:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/13/19 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/13/19 16:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/13/19 16:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/13/19 16:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/13/19 16:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/13/19 16:27	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/13/19 16:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/13/19 16:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/13/19 16:27	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: TB-4(050919)	Lab ID: 50224516007	Collected: 05/09/19 13:30	Received: 05/09/19 17:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/13/19 16:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/13/19 16:27	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/13/19 16:27	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/13/19 16:27	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/13/19 16:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/13/19 16:27	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/13/19 16:27	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/13/19 16:27	103-65-1	
Styrene	ND	ug/L	5.0	1		05/13/19 16:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/13/19 16:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/13/19 16:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/13/19 16:27	127-18-4	
Toluene	ND	ug/L	5.0	1		05/13/19 16:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/13/19 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/13/19 16:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/13/19 16:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/13/19 16:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/13/19 16:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/13/19 16:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/13/19 16:27	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/13/19 16:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/13/19 16:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/13/19 16:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	80-122	1		05/13/19 16:27	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	85-114	1		05/13/19 16:27	460-00-4	
Toluene-d8 (S)	95	%.	85-114	1		05/13/19 16:27	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-10(16-12)GW	Lab ID: 50224516008	Collected: 05/09/19 16:41	Received: 05/09/19 17:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/13/19 16:58	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/13/19 16:58	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/13/19 16:58	107-13-1	
Benzene	ND	ug/L	5.0	1		05/13/19 16:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/13/19 16:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/13/19 16:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/13/19 16:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/13/19 16:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/13/19 16:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/13/19 16:58	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/13/19 16:58	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/13/19 16:58	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/13/19 16:58	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/13/19 16:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/13/19 16:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/13/19 16:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/13/19 16:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/13/19 16:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/13/19 16:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/13/19 16:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/13/19 16:58	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/13/19 16:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/13/19 16:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/13/19 16:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/13/19 16:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/13/19 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/13/19 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/13/19 16:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/13/19 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/13/19 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/13/19 16:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/13/19 16:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/13/19 16:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/13/19 16:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/13/19 16:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/13/19 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/13/19 16:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/13/19 16:58	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/13/19 16:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/13/19 16:58	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/13/19 16:58	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/13/19 16:58	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/13/19 16:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/13/19 16:58	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: SB-10(16-12)GW	Lab ID: 50224516008	Collected: 05/09/19 16:41	Received: 05/09/19 17:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/13/19 16:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/13/19 16:58	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/13/19 16:58	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/13/19 16:58	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/13/19 16:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/13/19 16:58	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/13/19 16:58	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/13/19 16:58	103-65-1	
Styrene	ND	ug/L	5.0	1		05/13/19 16:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/13/19 16:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/13/19 16:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/13/19 16:58	127-18-4	
Toluene	ND	ug/L	5.0	1		05/13/19 16:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/13/19 16:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/13/19 16:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/13/19 16:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/13/19 16:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/13/19 16:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/13/19 16:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/13/19 16:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/13/19 16:58	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/13/19 16:58	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/13/19 16:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/13/19 16:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	80-122	1		05/13/19 16:58	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	85-114	1		05/13/19 16:58	460-00-4	
Toluene-d8 (S)	95	%.	85-114	1		05/13/19 16:58	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: DUP-4(050919)	Lab ID: 50224516009	Collected: 05/09/19 08:00	Received: 05/09/19 17:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
Acetone	ND	ug/L	100	1		05/13/19 17:30	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/13/19 17:30	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/13/19 17:30	107-13-1	
Benzene	ND	ug/L	5.0	1		05/13/19 17:30	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/13/19 17:30	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/13/19 17:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/13/19 17:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/13/19 17:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/13/19 17:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/13/19 17:30	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/13/19 17:30	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/13/19 17:30	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/13/19 17:30	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/13/19 17:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/13/19 17:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/13/19 17:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/13/19 17:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/13/19 17:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/13/19 17:30	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/13/19 17:30	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/13/19 17:30	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/13/19 17:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/13/19 17:30	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/13/19 17:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/13/19 17:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/13/19 17:30	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/13/19 17:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/13/19 17:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/13/19 17:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/13/19 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/13/19 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/13/19 17:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/13/19 17:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/13/19 17:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/13/19 17:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/13/19 17:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/13/19 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/13/19 17:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/13/19 17:30	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/13/19 17:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/13/19 17:30	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/13/19 17:30	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/13/19 17:30	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/13/19 17:30	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/13/19 17:30	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224516

Sample: DUP-4(050919)	Lab ID: 50224516009	Collected: 05/09/19 08:00	Received: 05/09/19 17:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/13/19 17:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/13/19 17:30	75-09-2	
1-Methylnaphthalene	ND	ug/L	10.0	1		05/13/19 17:30	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		05/13/19 17:30	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/13/19 17:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/13/19 17:30	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		05/13/19 17:30	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/13/19 17:30	103-65-1	
Styrene	ND	ug/L	5.0	1		05/13/19 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/13/19 17:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/13/19 17:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/13/19 17:30	127-18-4	
Toluene	ND	ug/L	5.0	1		05/13/19 17:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/13/19 17:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/13/19 17:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/13/19 17:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/13/19 17:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/13/19 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/13/19 17:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/13/19 17:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/13/19 17:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/13/19 17:30	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/13/19 17:30	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/13/19 17:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/13/19 17:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	80-122	1		05/13/19 17:30	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	85-114	1		05/13/19 17:30	460-00-4	
Toluene-d8 (S)	88	%.	85-114	1		05/13/19 17:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224516

QC Batch: 499981 Analysis Method: EPA 5030/8260
QC Batch Method: EPA 5030/8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50224516007, 50224516008, 50224516009

METHOD BLANK: 2306993 Matrix: Water
Associated Lab Samples: 50224516007, 50224516008, 50224516009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/13/19 15:55	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/13/19 15:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/13/19 15:55	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/13/19 15:55	
1,1-Dichloroethane	ug/L	ND	5.0	05/13/19 15:55	
1,1-Dichloroethene	ug/L	ND	5.0	05/13/19 15:55	
1,1-Dichloropropene	ug/L	ND	5.0	05/13/19 15:55	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/13/19 15:55	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/13/19 15:55	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/13/19 15:55	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/13/19 15:55	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/13/19 15:55	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/13/19 15:55	
1,2-Dichloroethane	ug/L	ND	5.0	05/13/19 15:55	
1,2-Dichloropropane	ug/L	ND	5.0	05/13/19 15:55	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/13/19 15:55	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/13/19 15:55	
1,3-Dichloropropane	ug/L	ND	5.0	05/13/19 15:55	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/13/19 15:55	
1-Methylnaphthalene	ug/L	ND	10.0	05/13/19 15:55	N2
2,2-Dichloropropane	ug/L	ND	5.0	05/13/19 15:55	
2-Butanone (MEK)	ug/L	ND	25.0	05/13/19 15:55	
2-Chlorotoluene	ug/L	ND	5.0	05/13/19 15:55	
2-Hexanone	ug/L	ND	25.0	05/13/19 15:55	
2-Methylnaphthalene	ug/L	ND	10.0	05/13/19 15:55	
4-Chlorotoluene	ug/L	ND	5.0	05/13/19 15:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/13/19 15:55	
Acetone	ug/L	ND	100	05/13/19 15:55	
Acrolein	ug/L	ND	50.0	05/13/19 15:55	
Acrylonitrile	ug/L	ND	100	05/13/19 15:55	
Benzene	ug/L	ND	5.0	05/13/19 15:55	
Bromobenzene	ug/L	ND	5.0	05/13/19 15:55	
Bromochloromethane	ug/L	ND	5.0	05/13/19 15:55	
Bromodichloromethane	ug/L	ND	5.0	05/13/19 15:55	
Bromoform	ug/L	ND	5.0	05/13/19 15:55	
Bromomethane	ug/L	ND	5.0	05/13/19 15:55	
Carbon disulfide	ug/L	ND	10.0	05/13/19 15:55	
Carbon tetrachloride	ug/L	ND	5.0	05/13/19 15:55	
Chlorobenzene	ug/L	ND	5.0	05/13/19 15:55	
Chloroethane	ug/L	ND	5.0	05/13/19 15:55	
Chloroform	ug/L	ND	5.0	05/13/19 15:55	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224516

METHOD BLANK: 2306993 Matrix: Water
Associated Lab Samples: 50224516007, 50224516008, 50224516009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	05/13/19 15:55	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/13/19 15:55	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/13/19 15:55	
Dibromochloromethane	ug/L	ND	5.0	05/13/19 15:55	
Dibromomethane	ug/L	ND	5.0	05/13/19 15:55	
Dichlorodifluoromethane	ug/L	ND	5.0	05/13/19 15:55	
Ethyl methacrylate	ug/L	ND	100	05/13/19 15:55	
Ethylbenzene	ug/L	ND	5.0	05/13/19 15:55	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/13/19 15:55	
Iodomethane	ug/L	ND	10.0	05/13/19 15:55	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/13/19 15:55	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/13/19 15:55	
Methylene Chloride	ug/L	ND	5.0	05/13/19 15:55	
n-Butylbenzene	ug/L	ND	5.0	05/13/19 15:55	
n-Hexane	ug/L	ND	5.0	05/13/19 15:55	
n-Propylbenzene	ug/L	ND	5.0	05/13/19 15:55	
Naphthalene	ug/L	ND	1.7	05/13/19 15:55	
p-Isopropyltoluene	ug/L	ND	5.0	05/13/19 15:55	
sec-Butylbenzene	ug/L	ND	5.0	05/13/19 15:55	
Styrene	ug/L	ND	5.0	05/13/19 15:55	
tert-Butylbenzene	ug/L	ND	5.0	05/13/19 15:55	
Tetrachloroethene	ug/L	ND	5.0	05/13/19 15:55	
Toluene	ug/L	ND	5.0	05/13/19 15:55	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/13/19 15:55	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/13/19 15:55	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/13/19 15:55	
Trichloroethene	ug/L	ND	5.0	05/13/19 15:55	
Trichlorofluoromethane	ug/L	ND	5.0	05/13/19 15:55	
Vinyl acetate	ug/L	ND	50.0	05/13/19 15:55	
Vinyl chloride	ug/L	ND	2.0	05/13/19 15:55	
Xylene (Total)	ug/L	ND	10.0	05/13/19 15:55	
4-Bromofluorobenzene (S)	%	101	85-114	05/13/19 15:55	
Dibromofluoromethane (S)	%	102	80-122	05/13/19 15:55	
Toluene-d8 (S)	%	95	85-114	05/13/19 15:55	

LABORATORY CONTROL SAMPLE: 2306994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.3	97	78-120	
1,1,1-Trichloroethane	ug/L	50	49.2	98	72-127	
1,1,2,2-Tetrachloroethane	ug/L	50	51.7	103	70-124	
1,1,2-Trichloroethane	ug/L	50	54.9	110	79-121	
1,1-Dichloroethane	ug/L	50	51.2	102	70-119	
1,1-Dichloroethene	ug/L	50	57.0	114	71-126	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

LABORATORY CONTROL SAMPLE: 2306994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	50.8	102	76-122	
1,2,3-Trichlorobenzene	ug/L	50	55.0	110	71-126	
1,2,3-Trichloropropane	ug/L	50	46.4	93	75-119	
1,2,4-Trichlorobenzene	ug/L	50	59.0	118	68-130	
1,2,4-Trimethylbenzene	ug/L	50	54.4	109	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	81-119	
1,2-Dichlorobenzene	ug/L	50	52.4	105	78-114	
1,2-Dichloroethane	ug/L	50	46.9	94	68-119	
1,2-Dichloropropane	ug/L	50	55.3	111	79-126	
1,3,5-Trimethylbenzene	ug/L	50	55.5	111	78-118	
1,3-Dichlorobenzene	ug/L	50	54.1	108	77-114	
1,3-Dichloropropane	ug/L	50	52.4	105	82-124	
1,4-Dichlorobenzene	ug/L	50	52.1	104	77-111	
1-Methylnaphthalene	ug/L	50	60.8	122	60-140	N2
2,2-Dichloropropane	ug/L	50	51.1	102	53-137	
2-Butanone (MEK)	ug/L	250	273	109	62-140	
2-Chlorotoluene	ug/L	50	55.9	112	76-120	
2-Hexanone	ug/L	250	260	104	62-143	
2-Methylnaphthalene	ug/L	50	65.7	131	60-133	
4-Chlorotoluene	ug/L	50	54.0	108	78-114	
4-Methyl-2-pentanone (MIBK)	ug/L	250	234	94	60-143	
Acetone	ug/L	250	369	147	44-156	
Acrolein	ug/L	1000	1410	141	17-189	
Acrylonitrile	ug/L	200	193	97	58-139	
Benzene	ug/L	50	51.0	102	78-117	
Bromobenzene	ug/L	50	50.3	101	76-114	
Bromochloromethane	ug/L	50	44.9	90	70-122	
Bromodichloromethane	ug/L	50	51.8	104	72-121	
Bromoform	ug/L	50	46.6	93	66-117	
Bromomethane	ug/L	50	62.2	124	20-176	
Carbon disulfide	ug/L	50	56.3	113	65-124	
Carbon tetrachloride	ug/L	50	47.5	95	68-132	
Chlorobenzene	ug/L	50	50.3	101	79-113	
Chloroethane	ug/L	50	63.3	127	62-140	
Chloroform	ug/L	50	49.0	98	73-118	
Chloromethane	ug/L	50	41.3	83	36-132	
cis-1,2-Dichloroethene	ug/L	50	53.9	108	74-122	
cis-1,3-Dichloropropene	ug/L	50	51.8	104	79-126	
Dibromochloromethane	ug/L	50	46.4	93	75-121	
Dibromomethane	ug/L	50	52.7	105	75-123	
Dichlorodifluoromethane	ug/L	50	51.2	102	27-172	
Ethyl methacrylate	ug/L	200	227	114	72-134	
Ethylbenzene	ug/L	50	53.4	107	80-118	
Hexachloro-1,3-butadiene	ug/L	50	61.8	124	71-141	
Iodomethane	ug/L	100	99.3	99	10-186	
Isopropylbenzene (Cumene)	ug/L	50	52.2	104	82-120	
Methyl-tert-butyl ether	ug/L	50	53.1	106	72-128	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

LABORATORY CONTROL SAMPLE: 2306994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	54.4	109	70-121	
n-Butylbenzene	ug/L	50	57.1	114	76-123	
n-Hexane	ug/L	50	53.1	106	58-149	
n-Propylbenzene	ug/L	50	57.2	114	80-122	
Naphthalene	ug/L	50	58.7	117	71-121	
p-Isopropyltoluene	ug/L	50	55.4	111	79-121	
sec-Butylbenzene	ug/L	50	58.1	116	78-124	
Styrene	ug/L	50	54.6	109	80-119	
tert-Butylbenzene	ug/L	50	48.3	97	62-102	
Tetrachloroethene	ug/L	50	48.3	97	76-124	
Toluene	ug/L	50	48.2	96	78-116	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	73-121	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	73-126	
trans-1,4-Dichloro-2-butene	ug/L	200	170	85	42-138	
Trichloroethene	ug/L	50	51.2	102	76-120	
Trichlorofluoromethane	ug/L	50	52.4	105	60-138	
Vinyl acetate	ug/L	200	166	83	29-200	
Vinyl chloride	ug/L	50	58.8	118	70-136	
Xylene (Total)	ug/L	150	156	104	79-119	
4-Bromofluorobenzene (S)	%			99	85-114	
Dibromofluoromethane (S)	%			102	80-122	
Toluene-d8 (S)	%			97	85-114	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

QC Batch: 499992

Analysis Method: EPA 5030/8260

QC Batch Method: EPA 5030/8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50224516006

METHOD BLANK: 2307049

Matrix: Water

Associated Lab Samples: 50224516006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/14/19 23:25	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/14/19 23:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/14/19 23:25	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/14/19 23:25	
1,1-Dichloroethane	ug/L	ND	5.0	05/14/19 23:25	
1,1-Dichloroethene	ug/L	ND	5.0	05/14/19 23:25	
1,1-Dichloropropene	ug/L	ND	5.0	05/14/19 23:25	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/14/19 23:25	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/14/19 23:25	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/14/19 23:25	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/14/19 23:25	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/14/19 23:25	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/14/19 23:25	
1,2-Dichloroethane	ug/L	ND	5.0	05/14/19 23:25	
1,2-Dichloropropane	ug/L	ND	5.0	05/14/19 23:25	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/14/19 23:25	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/14/19 23:25	
1,3-Dichloropropane	ug/L	ND	5.0	05/14/19 23:25	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/14/19 23:25	
1-Methylnaphthalene	ug/L	ND	10.0	05/14/19 23:25	N2
2,2-Dichloropropane	ug/L	ND	5.0	05/14/19 23:25	
2-Butanone (MEK)	ug/L	ND	25.0	05/14/19 23:25	
2-Chlorotoluene	ug/L	ND	5.0	05/14/19 23:25	
2-Hexanone	ug/L	ND	25.0	05/14/19 23:25	
2-Methylnaphthalene	ug/L	ND	10.0	05/14/19 23:25	
4-Chlorotoluene	ug/L	ND	5.0	05/14/19 23:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/14/19 23:25	
Acetone	ug/L	ND	100	05/14/19 23:25	
Acrolein	ug/L	ND	50.0	05/14/19 23:25	
Acrylonitrile	ug/L	ND	100	05/14/19 23:25	
Benzene	ug/L	ND	5.0	05/14/19 23:25	
Bromobenzene	ug/L	ND	5.0	05/14/19 23:25	
Bromochloromethane	ug/L	ND	5.0	05/14/19 23:25	
Bromodichloromethane	ug/L	ND	5.0	05/14/19 23:25	
Bromoform	ug/L	ND	5.0	05/14/19 23:25	
Bromomethane	ug/L	ND	5.0	05/14/19 23:25	
Carbon disulfide	ug/L	ND	10.0	05/14/19 23:25	
Carbon tetrachloride	ug/L	ND	5.0	05/14/19 23:25	
Chlorobenzene	ug/L	ND	5.0	05/14/19 23:25	
Chloroethane	ug/L	ND	5.0	05/14/19 23:25	
Chloroform	ug/L	ND	5.0	05/14/19 23:25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

METHOD BLANK: 2307049

Matrix: Water

Associated Lab Samples: 50224516006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	05/14/19 23:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/14/19 23:25	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/14/19 23:25	
Dibromochloromethane	ug/L	ND	5.0	05/14/19 23:25	
Dibromomethane	ug/L	ND	5.0	05/14/19 23:25	
Dichlorodifluoromethane	ug/L	ND	5.0	05/14/19 23:25	
Ethyl methacrylate	ug/L	ND	100	05/14/19 23:25	
Ethylbenzene	ug/L	ND	5.0	05/14/19 23:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/14/19 23:25	
Iodomethane	ug/L	ND	10.0	05/14/19 23:25	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/14/19 23:25	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/14/19 23:25	
Methylene Chloride	ug/L	ND	5.0	05/14/19 23:25	
n-Butylbenzene	ug/L	ND	5.0	05/14/19 23:25	
n-Hexane	ug/L	ND	5.0	05/14/19 23:25	
n-Propylbenzene	ug/L	ND	5.0	05/14/19 23:25	
Naphthalene	ug/L	ND	1.7	05/14/19 23:25	
p-Isopropyltoluene	ug/L	ND	5.0	05/14/19 23:25	
sec-Butylbenzene	ug/L	ND	5.0	05/14/19 23:25	
Styrene	ug/L	ND	5.0	05/14/19 23:25	
tert-Butylbenzene	ug/L	ND	5.0	05/14/19 23:25	
Tetrachloroethene	ug/L	ND	5.0	05/14/19 23:25	
Toluene	ug/L	ND	5.0	05/14/19 23:25	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/14/19 23:25	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/14/19 23:25	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/14/19 23:25	
Trichloroethene	ug/L	ND	5.0	05/14/19 23:25	
Trichlorofluoromethane	ug/L	ND	5.0	05/14/19 23:25	
Vinyl acetate	ug/L	ND	50.0	05/14/19 23:25	
Vinyl chloride	ug/L	ND	2.0	05/14/19 23:25	
Xylene (Total)	ug/L	ND	10.0	05/14/19 23:25	
4-Bromofluorobenzene (S)	%	99	85-114	05/14/19 23:25	
Dibromofluoromethane (S)	%	99	80-122	05/14/19 23:25	
Toluene-d8 (S)	%	92	85-114	05/14/19 23:25	

LABORATORY CONTROL SAMPLE: 2307050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.0	92	78-120	
1,1,1-Trichloroethane	ug/L	50	41.7	83	72-127	
1,1,2,2-Tetrachloroethane	ug/L	50	49.7	99	70-124	
1,1,2-Trichloroethane	ug/L	50	47.2	94	79-121	
1,1-Dichloroethane	ug/L	50	42.4	85	70-119	
1,1-Dichloroethene	ug/L	50	48.8	98	71-126	

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224516

LABORATORY CONTROL SAMPLE: 2307050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	42.6	85	76-122	
1,2,3-Trichlorobenzene	ug/L	50	48.7	97	71-126	
1,2,3-Trichloropropane	ug/L	50	45.9	92	75-119	
1,2,4-Trichlorobenzene	ug/L	50	48.2	96	68-130	
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	44.4	89	81-119	
1,2-Dichlorobenzene	ug/L	50	47.3	95	78-114	
1,2-Dichloroethane	ug/L	50	40.5	81	68-119	
1,2-Dichloropropane	ug/L	50	48.3	97	79-126	
1,3,5-Trimethylbenzene	ug/L	50	48.3	97	78-118	
1,3-Dichlorobenzene	ug/L	50	47.2	94	77-114	
1,3-Dichloropropane	ug/L	50	46.5	93	82-124	
1,4-Dichlorobenzene	ug/L	50	46.0	92	77-111	
1-Methylnaphthalene	ug/L	50	54.9	110	60-140	N2
2,2-Dichloropropane	ug/L	50	39.1	78	53-137	
2-Butanone (MEK)	ug/L	250	253	101	62-140	
2-Chlorotoluene	ug/L	50	48.3	97	76-120	
2-Hexanone	ug/L	250	228	91	62-143	
2-Methylnaphthalene	ug/L	50	58.3	117	60-133	
4-Chlorotoluene	ug/L	50	46.4	93	78-114	
4-Methyl-2-pentanone (MIBK)	ug/L	250	204	81	60-143	
Acetone	ug/L	250	285	114	44-156	
Acrolein	ug/L	1000	1330	133	17-189	
Acrylonitrile	ug/L	200	171	86	58-139	
Benzene	ug/L	50	49.4	99	78-117	
Bromobenzene	ug/L	50	46.2	92	76-114	
Bromochloromethane	ug/L	50	49.7	99	70-122	
Bromodichloromethane	ug/L	50	42.9	86	72-121	
Bromoform	ug/L	50	46.5	93	66-117	
Bromomethane	ug/L	50	48.2	96	20-176	
Carbon disulfide	ug/L	50	59.6	119	65-124	
Carbon tetrachloride	ug/L	50	40.2	80	68-132	
Chlorobenzene	ug/L	50	44.5	89	79-113	
Chloroethane	ug/L	50	53.5	107	62-140	
Chloroform	ug/L	50	40.2	80	73-118	
Chloromethane	ug/L	50	34.1	68	36-132	
cis-1,2-Dichloroethene	ug/L	50	43.2	86	74-122	
cis-1,3-Dichloropropene	ug/L	50	42.9	86	79-126	
Dibromochloromethane	ug/L	50	43.7	87	75-121	
Dibromomethane	ug/L	50	45.7	91	75-123	
Dichlorodifluoromethane	ug/L	50	43.5	87	27-172	
Ethyl methacrylate	ug/L	200	208	104	72-134	
Ethylbenzene	ug/L	50	45.6	91	80-118	
Hexachloro-1,3-butadiene	ug/L	50	51.9	104	71-141	
Iodomethane	ug/L	100	72.2	72	10-186	
Isopropylbenzene (Cumene)	ug/L	50	44.2	88	82-120	
Methyl-tert-butyl ether	ug/L	50	45.6	91	72-128	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

LABORATORY CONTROL SAMPLE: 2307050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	54.2	108	70-121	
n-Butylbenzene	ug/L	50	45.2	90	76-123	
n-Hexane	ug/L	50	48.8	98	58-149	
n-Propylbenzene	ug/L	50	48.1	96	80-122	
Naphthalene	ug/L	50	51.2	102	71-121	
p-Isopropyltoluene	ug/L	50	45.9	92	79-121	
sec-Butylbenzene	ug/L	50	47.1	94	78-124	
Styrene	ug/L	50	47.5	95	80-119	
tert-Butylbenzene	ug/L	50	36.2	72	62-102	
Tetrachloroethene	ug/L	50	41.3	83	76-124	
Toluene	ug/L	50	42.6	85	78-116	
trans-1,2-Dichloroethene	ug/L	50	44.4	89	73-121	
trans-1,3-Dichloropropene	ug/L	50	44.0	88	73-126	
trans-1,4-Dichloro-2-butene	ug/L	200	155	78	42-138	
Trichloroethene	ug/L	50	44.1	88	76-120	
Trichlorofluoromethane	ug/L	50	48.2	96	60-138	
Vinyl acetate	ug/L	200	149	75	29-200	
Vinyl chloride	ug/L	50	50.6	101	70-136	
Xylene (Total)	ug/L	150	135	90	79-119	
4-Bromofluorobenzene (S)	%			102	85-114	
Dibromofluoromethane (S)	%			94	80-122	
Toluene-d8 (S)	%			93	85-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2307051 2307052

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		50224516006 Result	Spike Conc.	Spike Conc.	Conc.							
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50	42.0	48.5	84	97	44-142	14	20
1,1,1-Trichloroethane	ug/L	ND	50	50	50	36.6	41.2	73	82	48-145	12	20
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50	48.3	50.9	97	102	44-139	5	20
1,1,2-Trichloroethane	ug/L	ND	50	50	50	42.4	45.2	85	90	49-140	6	20
1,1-Dichloroethane	ug/L	ND	50	50	50	38.2	42.1	76	84	38-142	10	20
1,1-Dichloroethene	ug/L	ND	50	50	50	41.0	46.1	82	92	46-148	12	20
1,1-Dichloropropene	ug/L	ND	50	50	50	36.1	41.0	72	82	47-142	13	20
1,2,3-Trichlorobenzene	ug/L	ND	50	50	50	40.6	38.4	81	77	34-139	5	20
1,2,3-Trichloropropane	ug/L	ND	50	50	50	45.3	47.9	91	96	44-140	5	20
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50	40.6	37.1	81	74	31-142	9	20
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50	43.5	45.4	85	89	39-140	4	20
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50	40.7	44.8	81	90	47-143	10	20
1,2-Dichlorobenzene	ug/L	ND	50	50	50	43.4	44.4	87	89	40-135	2	20
1,2-Dichloroethane	ug/L	ND	50	50	50	36.6	40.2	73	80	44-138	9	20
1,2-Dichloropropane	ug/L	ND	50	50	50	43.2	46.9	86	94	53-142	8	20
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50	42.8	44.6	85	88	36-142	4	20
1,3-Dichlorobenzene	ug/L	ND	50	50	50	42.3	42.3	85	85	37-136	0	20
1,3-Dichloropropane	ug/L	ND	50	50	50	42.3	46.9	85	94	47-145	10	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2307051 2307052													
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		50224516006 Result	Spike Conc.	Spike Conc.	MS Conc.								
1,4-Dichlorobenzene	ug/L	ND	50	50	40.9	41.6	82	83	38-132	2	20		
1-Methylnaphthalene	ug/L	ND	50	50	44.5	46.3	89	93	35-144	4	20	N2	
2,2-Dichloropropane	ug/L	ND	50	50	29.9	34.3	60	69	19-147	14	20		
2-Butanone (MEK)	ug/L	ND	250	250	225	251	90	101	36-153	11	20		
2-Chlorotoluene	ug/L	ND	50	50	43.4	45.7	87	91	37-143	5	20		
2-Hexanone	ug/L	ND	250	250	204	227	82	91	38-149	11	20		
2-Methylnaphthalene	ug/L	ND	50	50	46.5	44.5	93	89	38-134	4	20		
4-Chlorotoluene	ug/L	ND	50	50	40.2	42.6	80	85	38-137	6	20		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	184	212	74	85	43-145	14	20		
Acetone	ug/L	ND	250	250	249	266	93	100	21-161	6	20		
Acrolein	ug/L	ND	1000	1000	944	1020	94	102	17-153	7	20		
Acrylonitrile	ug/L	ND	200	200	159	176	79	88	40-141	10	20		
Benzene	ug/L	ND	50	50	43.3	48.2	87	96	49-140	11	20		
Bromobenzene	ug/L	ND	50	50	43.2	45.9	86	92	39-137	6	20		
Bromochloromethane	ug/L	ND	50	50	44.6	48.1	89	96	50-132	7	20		
Bromodichloromethane	ug/L	ND	50	50	39.2	43.5	78	87	42-139	10	20		
Bromoform	ug/L	ND	50	50	43.0	46.8	86	94	29-135	9	20		
Bromomethane	ug/L	ND	50	50	42.7	48.3	85	97	10-162	12	20		
Carbon disulfide	ug/L	ND	50	50	49.7	55.4	99	111	33-144	11	20		
Carbon tetrachloride	ug/L	ND	50	50	34.4	38.6	69	77	45-148	12	20		
Chlorobenzene	ug/L	ND	50	50	39.8	43.3	80	87	47-135	8	20		
Chloroethane	ug/L	ND	50	50	45.4	52.0	91	104	41-149	14	20		
Chloroform	ug/L	ND	50	50	36.1	39.0	72	78	49-136	8	20		
Chloromethane	ug/L	ND	50	50	29.0	32.8	58	66	17-138	12	20		
cis-1,2-Dichloroethene	ug/L	ND	50	50	37.9	42.9	76	86	46-143	12	20		
cis-1,3-Dichloropropene	ug/L	ND	50	50	36.6	40.5	73	81	44-142	10	20		
Dibromochloromethane	ug/L	ND	50	50	38.6	44.4	77	89	41-141	14	20		
Dibromomethane	ug/L	ND	50	50	41.4	46.1	83	92	46-140	11	20		
Dichlorodifluoromethane	ug/L	ND	50	50	37.0	41.1	74	82	10-193	11	20		
Ethyl methacrylate	ug/L	ND	200	200	183	204	91	102	45-145	11	20		
Ethylbenzene	ug/L	ND	50	50	40.6	44.8	79	88	44-145	10	20		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	44.5	42.5	89	85	27-158	5	20		
Iodomethane	ug/L	ND	100	100	57.3	70.0	57	70	10-172	20	20		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	39.5	44.0	79	88	43-148	11	20		
Methyl-tert-butyl ether	ug/L	ND	50	50	40.9	46.3	82	93	38-158	12	20		
Methylene Chloride	ug/L	ND	50	50	47.1	53.9	94	108	33-140	13	20		
n-Butylbenzene	ug/L	ND	50	50	38.3	37.4	77	75	35-142	2	20		
n-Hexane	ug/L	ND	50	50	41.8	46.1	84	92	32-159	10	20		
n-Propylbenzene	ug/L	ND	50	50	41.6	43.1	83	86	37-145	3	20		
Naphthalene	ug/L	ND	50	50	43.4	47.1	86	93	40-137	8	20		
p-Isopropyltoluene	ug/L	ND	50	50	39.7	41.4	79	83	37-143	4	20		
sec-Butylbenzene	ug/L	ND	50	50	41.6	43.1	83	86	40-144	3	20		
Styrene	ug/L	ND	50	50	42.2	44.9	84	90	37-143	6	20		
tert-Butylbenzene	ug/L	ND	50	50	33.1	35.8	66	72	35-114	8	20		

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

Parameter	Units	2307051		2307052		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224516006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Tetrachloroethene	ug/L	ND	50	50	33.3	37.9	67	76	41-145	13	20		
Toluene	ug/L	ND	50	50	36.3	41.2	71	81	48-139	13	20		
trans-1,2-Dichloroethene	ug/L	ND	50	50	39.6	44.1	79	88	46-140	11	20		
trans-1,3-Dichloropropene	ug/L	ND	50	50	34.4	39.5	69	79	37-141	14	20		
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	35.5J	48.5J	18	24	10-166		20		
Trichloroethene	ug/L	ND	50	50	37.5	41.8	75	84	43-147	11	20		
Trichlorofluoromethane	ug/L	ND	50	50	41.3	46.0	83	92	39-154	11	20		
Vinyl acetate	ug/L	ND	200	200	146	159	73	80	10-181	9	20		
Vinyl chloride	ug/L	ND	50	50	42.3	49.7	85	99	49-153	16	20		
Xylene (Total)	ug/L	ND	150	150	120	133	80	88	44-147	10	20		
4-Bromofluorobenzene (S)	%						102	102	85-114				
Dibromofluoromethane (S)	%						97	96	80-122				
Toluene-d8 (S)	%						90	94	85-114				

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224516

QC Batch: 499947 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50224516001, 50224516002, 50224516003, 50224516004, 50224516005

METHOD BLANK: 2306847 Matrix: Solid
Associated Lab Samples: 50224516001, 50224516002, 50224516003, 50224516004, 50224516005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/14/19 00:51	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/14/19 00:51	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/14/19 00:51	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/14/19 00:51	
1,1-Dichloroethane	ug/kg	ND	5.0	05/14/19 00:51	
1,1-Dichloroethene	ug/kg	ND	5.0	05/14/19 00:51	
1,1-Dichloropropene	ug/kg	ND	5.0	05/14/19 00:51	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/14/19 00:51	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/14/19 00:51	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/14/19 00:51	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/14/19 00:51	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/14/19 00:51	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/14/19 00:51	
1,2-Dichloroethane	ug/kg	ND	5.0	05/14/19 00:51	
1,2-Dichloropropane	ug/kg	ND	5.0	05/14/19 00:51	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/14/19 00:51	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/14/19 00:51	
1,3-Dichloropropane	ug/kg	ND	5.0	05/14/19 00:51	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/14/19 00:51	
1-Methylnaphthalene	ug/kg	ND	10.0	05/14/19 00:51	N2
2,2-Dichloropropane	ug/kg	ND	5.0	05/14/19 00:51	
2-Butanone (MEK)	ug/kg	ND	25.0	05/14/19 00:51	
2-Chlorotoluene	ug/kg	ND	5.0	05/14/19 00:51	
2-Hexanone	ug/kg	ND	100	05/14/19 00:51	
2-Methylnaphthalene	ug/kg	ND	10.0	05/14/19 00:51	
4-Chlorotoluene	ug/kg	ND	5.0	05/14/19 00:51	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/14/19 00:51	
Acetone	ug/kg	ND	100	05/14/19 00:51	
Acrolein	ug/kg	ND	100	05/14/19 00:51	
Acrylonitrile	ug/kg	ND	100	05/14/19 00:51	
Benzene	ug/kg	ND	5.0	05/14/19 00:51	
Bromobenzene	ug/kg	ND	5.0	05/14/19 00:51	
Bromochloromethane	ug/kg	ND	5.0	05/14/19 00:51	
Bromodichloromethane	ug/kg	ND	5.0	05/14/19 00:51	
Bromoform	ug/kg	ND	5.0	05/14/19 00:51	
Bromomethane	ug/kg	ND	5.0	05/14/19 00:51	
Carbon disulfide	ug/kg	ND	10.0	05/14/19 00:51	
Carbon tetrachloride	ug/kg	ND	5.0	05/14/19 00:51	
Chlorobenzene	ug/kg	ND	5.0	05/14/19 00:51	
Chloroethane	ug/kg	ND	5.0	05/14/19 00:51	
Chloroform	ug/kg	ND	5.0	05/14/19 00:51	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

METHOD BLANK: 2306847

Matrix: Solid

Associated Lab Samples: 50224516001, 50224516002, 50224516003, 50224516004, 50224516005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	05/14/19 00:51	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/14/19 00:51	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/14/19 00:51	
Dibromochloromethane	ug/kg	ND	5.0	05/14/19 00:51	
Dibromomethane	ug/kg	ND	5.0	05/14/19 00:51	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/14/19 00:51	
Ethyl methacrylate	ug/kg	ND	100	05/14/19 00:51	
Ethylbenzene	ug/kg	ND	5.0	05/14/19 00:51	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/14/19 00:51	
Iodomethane	ug/kg	ND	100	05/14/19 00:51	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/14/19 00:51	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/14/19 00:51	
Methylene Chloride	ug/kg	ND	20.0	05/14/19 00:51	
n-Butylbenzene	ug/kg	ND	5.0	05/14/19 00:51	
n-Hexane	ug/kg	ND	5.0	05/14/19 00:51	
n-Propylbenzene	ug/kg	ND	5.0	05/14/19 00:51	
Naphthalene	ug/kg	ND	5.0	05/14/19 00:51	
p-Isopropyltoluene	ug/kg	ND	5.0	05/14/19 00:51	
sec-Butylbenzene	ug/kg	ND	5.0	05/14/19 00:51	
Styrene	ug/kg	ND	5.0	05/14/19 00:51	
tert-Butylbenzene	ug/kg	ND	5.0	05/14/19 00:51	
Tetrachloroethene	ug/kg	ND	5.0	05/14/19 00:51	
Toluene	ug/kg	ND	5.0	05/14/19 00:51	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/14/19 00:51	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/14/19 00:51	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/14/19 00:51	
Trichloroethene	ug/kg	ND	5.0	05/14/19 00:51	
Trichlorofluoromethane	ug/kg	ND	5.0	05/14/19 00:51	
Vinyl acetate	ug/kg	ND	100	05/14/19 00:51	
Vinyl chloride	ug/kg	ND	5.0	05/14/19 00:51	
Xylene (Total)	ug/kg	ND	10.0	05/14/19 00:51	
4-Bromofluorobenzene (S)	%	93	65-119	05/14/19 00:51	
Dibromofluoromethane (S)	%	98	77-131	05/14/19 00:51	
Toluene-d8 (S)	%	97	77-127	05/14/19 00:51	

LABORATORY CONTROL SAMPLE: 2306848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	50.9	102	81-122	
1,1,1-Trichloroethane	ug/kg	50	52.4	105	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	43.6	87	70-124	
1,1,2-Trichloroethane	ug/kg	50	48.9	98	77-122	
1,1-Dichloroethane	ug/kg	50	49.8	100	69-116	
1,1-Dichloroethene	ug/kg	50	46.8	94	70-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

LABORATORY CONTROL SAMPLE: 2306848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/kg	50	44.7	89	72-122	
1,2,3-Trichlorobenzene	ug/kg	50	38.7	77	56-118	
1,2,3-Trichloropropane	ug/kg	50	45.8	92	71-124	
1,2,4-Trichlorobenzene	ug/kg	50	35.6	71	50-123	
1,2,4-Trimethylbenzene	ug/kg	50	41.4	83	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	49.2	98	77-126	
1,2-Dichlorobenzene	ug/kg	50	40.4	81	73-115	
1,2-Dichloroethane	ug/kg	50	50.9	102	72-120	
1,2-Dichloropropane	ug/kg	50	50.5	101	77-125	
1,3,5-Trimethylbenzene	ug/kg	50	41.2	82	69-114	
1,3-Dichlorobenzene	ug/kg	50	39.0	78	66-115	
1,3-Dichloropropane	ug/kg	50	48.7	97	82-122	
1,4-Dichlorobenzene	ug/kg	50	38.2	76	66-114	
1-Methylnaphthalene	ug/kg	50	42.9	86	52-128	N2
2,2-Dichloropropane	ug/kg	50	48.9	98	60-126	
2-Butanone (MEK)	ug/kg	250	235	94	57-145	
2-Chlorotoluene	ug/kg	50	41.7	83	71-117	
2-Hexanone	ug/kg	250	227	91	64-127	
2-Methylnaphthalene	ug/kg	50	33.5	67	43-126	
4-Chlorotoluene	ug/kg	50	39.0	78	67-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	225	90	60-123	
Acetone	ug/kg	250	254	102	33-174	
Acrolein	ug/kg	1000	1220	122	11-200	
Acrylonitrile	ug/kg	200	187	94	64-123	
Benzene	ug/kg	50	45.6	91	74-119	
Bromobenzene	ug/kg	50	45.3	91	73-114	
Bromochloromethane	ug/kg	50	49.0	98	70-118	
Bromodichloromethane	ug/kg	50	50.8	102	73-120	
Bromoform	ug/kg	50	46.5	93	65-118	
Bromomethane	ug/kg	50	44.8	90	37-160	
Carbon disulfide	ug/kg	50	45.1	90	65-123	
Carbon tetrachloride	ug/kg	50	50.3	101	71-125	
Chlorobenzene	ug/kg	50	44.1	88	76-113	
Chloroethane	ug/kg	50	51.3	103	59-148	
Chloroform	ug/kg	50	48.9	98	71-117	
Chloromethane	ug/kg	50	38.4	77	49-112	
cis-1,2-Dichloroethene	ug/kg	50	47.2	94	70-122	
cis-1,3-Dichloropropene	ug/kg	50	47.3	95	75-120	
Dibromochloromethane	ug/kg	50	50.5	101	78-121	
Dibromomethane	ug/kg	50	52.7	105	75-125	
Dichlorodifluoromethane	ug/kg	50	44.0	88	34-163	
Ethyl methacrylate	ug/kg	200	205	103	63-132	
Ethylbenzene	ug/kg	50	43.4	87	73-118	
Hexachloro-1,3-butadiene	ug/kg	50	40.8	82	61-121	
Iodomethane	ug/kg	100	126	126	71-143	
Isopropylbenzene (Cumene)	ug/kg	50	44.2	88	74-121	
Methyl-tert-butyl ether	ug/kg	50	51.1	102	74-131	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

LABORATORY CONTROL SAMPLE: 2306848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	50	45.7	91	67-128	
n-Butylbenzene	ug/kg	50	34.7	69	61-116	
n-Hexane	ug/kg	50	37.3	75	59-119	
n-Propylbenzene	ug/kg	50	38.7	77	70-115	
Naphthalene	ug/kg	50	39.6	79	63-123	
p-Isopropyltoluene	ug/kg	50	39.3	79	68-117	
sec-Butylbenzene	ug/kg	50	40.9	82	72-117	
Styrene	ug/kg	50	43.7	87	75-120	
tert-Butylbenzene	ug/kg	50	39.0	78	55-100	
Tetrachloroethene	ug/kg	50	39.5	79	70-116	
Toluene	ug/kg	50	40.4	81	72-112	
trans-1,2-Dichloroethene	ug/kg	50	48.6	97	70-120	
trans-1,3-Dichloropropene	ug/kg	50	45.6	91	67-119	
trans-1,4-Dichloro-2-butene	ug/kg	200	182	91	57-124	
Trichloroethene	ug/kg	50	44.4	89	74-120	
Trichlorofluoromethane	ug/kg	50	44.0	88	59-139	
Vinyl acetate	ug/kg	200	157	78	70-134	
Vinyl chloride	ug/kg	50	43.6	87	58-133	
Xylene (Total)	ug/kg	150	129	86	71-119	
4-Bromofluorobenzene (S)	%			104	65-119	
Dibromofluoromethane (S)	%			100	77-131	
Toluene-d8 (S)	%			95	77-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224516

QC Batch: 500262

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50224516001, 50224516002, 50224516003, 50224516004, 50224516005

SAMPLE DUPLICATE: 2308088

Parameter	Units	50224325006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.5	21.6	5	5	

SAMPLE DUPLICATE: 2308089

Parameter	Units	50224558001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.9	7.2	20	5	R1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: IN001342.0001

Pace Project No.: 50224516

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.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IN001342.0001

Pace Project No.: 50224516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50224516006	SB-9 (16-12)GW	EPA 5030/8260	499992		
50224516007	TB-4(050919)	EPA 5030/8260	499981		
50224516008	SB-10(16-12)GW	EPA 5030/8260	499981		
50224516009	DUP-4(050919)	EPA 5030/8260	499981		
50224516001	SB-9 (2-0)	EPA 8260	499947		
50224516002	SB-9 (4-2)	EPA 8260	499947		
50224516003	SB-10 (2-0)	EPA 8260	499947		
50224516004	SB-10 (4-2)	EPA 8260	499947		
50224516005	DUP-5(050919)	EPA 8260	499947		
50224516001	SB-9 (2-0)	SM 2540G	500262		
50224516002	SB-9 (4-2)	SM 2540G	500262		
50224516003	SB-10 (2-0)	SM 2540G	500262		
50224516004	SB-10 (4-2)	SM 2540G	500262		
50224516005	DUP-5(050919)	SM 2540G	500262		

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CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50224516

Pace Analytical*

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Arcadis Billing Information:

Address: 150 W. Market St., Ste. 728

Report To: Kerby Woodruff Email To: Randell.woodruff@arcadis.com

Copy To: Jon Alkin Site Collection Info/Address:

Customer Project Name/Number: JN1001342.0001 State: JN County/City: _____ Time Zone Collected: [] PT [] MT [] CT [] ET

Phone: _____ Site/Facility ID #: _____ Compliance Monitoring? Yes No

Collected By (print): Brian Costley Purchase Order #: _____ DW PWS ID #: _____

Collected By (signature): _____ Turnaround Date Required: 1 week DW Location Code: _____

Sample Disposal: Dispose as appropriate Return Archive: _____ Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day Hold: _____ (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

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:			

* 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)		Composite End		Res Cl	# of Ctns	VOCs 8260	VOCs 5035	Lab Sample # / Comments:
			Date	Time	Date	Time					
SB-9(2-0)	SL	G	5/19/19	1142				4	X		001
SB-9(4-2)	SL	G		1148				4	X		002
SB-9(16-12)GW	GW	G		1344				3	X		000
TB-4(050919)	DW	G		1330				3	X		007
SB-10(16-12)GW	GW	G		1641				3	X		008
DUP-4(050919)BL	GW	G		---				3	X		009
SB-10(2-0)	SL	G		1629				4	X		003
SB-10(4-2)	SL	G		1633				4	X		004
DUP-5(050919)BL	SL	G		---				4	X		005

Customer Remarks / Special Conditions / Possible Hazards: _____

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: _____

Lab Tracking #: 2397284

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: N NA

Therm ID#: 5

Cooler 1 Temp Upon Receipt: 4.0 oC

Cooler 1 Therm Corr. Factor: 4.1 oC

Cooler 1 Corrected Temp: 4.1 oC

Comments:

Relinquished by/Company: (Signature) Arcadis Date/Time: 5/19/19 1740 Received by/Company: (Signature) JASON HULL Date/Time: 5-9-174

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: _____

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: _____

Table #: _____

Acctnum: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): _____ Page: _____

YES / NO of: _____



SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50224516

Date/Time and Initials of person examining contents: ZL 5/9/19 18:02

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: 4.0/4.1 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: <u>TC</u>	X		Headspace Wisconsin Sulfide			✓
Time 5035A TC placed in Freezer or Short Holds To Lab:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
			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

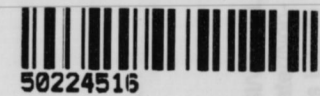
CLIENT: Arcadis

WO#: 50224516

COC PAGE 1 of 1
 COC ID# 2397284

Project # 50224516

SBS
 Bulk Kit



Sample Line Item	DG9B	DG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix (Soil/Aqueous)	pH <2	pH >9	pH >12
1																		4 ↓	SH ↓			
2																						
3		3 ↓																		WT ↓		
4																						
5																						
6																						
7																		4 ↓	SH ↓			
8																						
9																						
10																						
11																						
12																						

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

May 20, 2019

Mr. Jon Akin
Arcadis U.S., Inc.
150 West Market Street
Suite 700
Indianapolis, IN 46204

RE: Project: IN001342.0001
Pace Project No.: 50224684

Dear Mr. Akin:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2019. 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: Randall Woodruff, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IN001342.0001

Pace Project No.: 50224684

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

Michigan Department of Environmental Quality, Laboratory
#9050

Ohio VAP Certification #: CL0065

Oklahoma Certification #: 2018-101

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IN001342.0001

Pace Project No.: 50224684

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50224684001	SB-11 (2-0)	Solid	05/10/19 09:56	05/10/19 16:35
50224684002	SB-11 (4-2)	Solid	05/10/19 10:01	05/10/19 16:35
50224684003	SB-12 (2-0)	Solid	05/10/19 13:20	05/10/19 16:35
50224684004	SB-12 (4-2)	Solid	05/10/19 13:25	05/10/19 16:35
50224684005	WC SL (051019)	Solid	05/10/19 14:49	05/10/19 16:35
50224684006	TB-5 (051019)	Water	05/10/19 10:50	05/10/19 16:35
50224684007	SB-11 (21-17) GW	Water	05/10/19 10:58	05/10/19 16:35
50224684008	SB-11 (17-13) GW	Water	05/10/19 11:58	05/10/19 16:35
50224684009	SB-11 (13-9) GW	Water	05/10/19 11:43	05/10/19 16:35
50224684010	SB-12 (24-20) GW	Water	05/10/19 13:38	05/10/19 16:35
50224684011	SB-12 (17-13) GW	Water	05/10/19 13:53	05/10/19 16:35
50224684012	SB-12 (10-6) GW	Water	05/10/19 14:08	05/10/19 16:35
50224684013	WC WT (051019)	Water	05/10/19 14:30	05/10/19 16:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: IN001342.0001

Pace Project No.: 50224684

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50224684001	SB-11 (2-0)	EPA 8260	JLZ	73	PASI-I
		SM 2540G	RM1	1	PASI-I
50224684002	SB-11 (4-2)	EPA 8260	JLZ	73	PASI-I
		SM 2540G	RM1	1	PASI-I
50224684003	SB-12 (2-0)	EPA 8260	JLZ	73	PASI-I
		SM 2540G	RM1	1	PASI-I
50224684004	SB-12 (4-2)	EPA 8260	JLZ	73	PASI-I
		SM 2540G	RM1	1	PASI-I
50224684005	WC SL (051019)	EPA 6010	RAM	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270	JCM	18	PASI-I
		EPA 5030/8260	ALA	13	PASI-I
		EPA 1010	SCM	1	PASI-I
		EPA 9045	SCM	1	PASI-I
		EPA 8260	ALA	73	PASI-I
50224684006	TB-5 (051019)	EPA 8260	ALA	73	PASI-I
50224684007	SB-11 (21-17) GW	EPA 8260	ALA	73	PASI-I
50224684008	SB-11 (17-13) GW	EPA 8260	ALA	73	PASI-I
50224684009	SB-11 (13-9) GW	EPA 8260	ALA	73	PASI-I
50224684010	SB-12 (24-20) GW	EPA 8260	ALA	73	PASI-I
50224684011	SB-12 (17-13) GW	EPA 8260	ALA	73	PASI-I
50224684012	SB-12 (10-6) GW	EPA 8260	ALA	73	PASI-I
50224684013	WC WT (051019)	EPA 6010	RAM	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270	JCM	18	PASI-I
		EPA 5030/8260	ALA	13	PASI-I
		EPA 1010	SCM	1	PASI-I
		SM 4500-H+B	RWH	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IN001342.0001

Pace Project No.: 50224684

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50224684001	SB-11 (2-0)					
EPA 8260	Tetrachloroethene	4.6	ug/kg	4.5	05/15/19 23:13	
SM 2540G	Percent Moisture	13.4	%	0.10	05/16/19 09:14	
50224684002	SB-11 (4-2)					
SM 2540G	Percent Moisture	13.7	%	0.10	05/16/19 09:14	
50224684003	SB-12 (2-0)					
SM 2540G	Percent Moisture	13.9	%	0.10	05/16/19 09:14	
50224684004	SB-12 (4-2)					
SM 2540G	Percent Moisture	14.9	%	0.10	05/16/19 09:15	
50224684005	WC SL (051019)					
EPA 1010	Flashpoint	>200	deg F		05/14/19 08:27	
EPA 9045	pH at 25 Degrees C	8.3	Std. Units	0.10	05/13/19 14:20	H3
50224684009	SB-11 (13-9) GW					
EPA 8260	Tetrachloroethene	7.8	ug/L	5.0	05/17/19 21:05	
50224684013	WC WT (051019)					
EPA 1010	Flashpoint	>200	deg F		05/14/19 10:16	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	05/13/19 11:41	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (2-0) **Lab ID: 50224684001** Collected: 05/10/19 09:56 Received: 05/10/19 16:35 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						
Acetone	ND	ug/kg	90.6	1		05/15/19 23:13	67-64-1	
Acrolein	ND	ug/kg	90.6	1		05/15/19 23:13	107-02-8	
Acrylonitrile	ND	ug/kg	90.6	1		05/15/19 23:13	107-13-1	
Benzene	ND	ug/kg	4.5	1		05/15/19 23:13	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		05/15/19 23:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		05/15/19 23:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		05/15/19 23:13	75-27-4	
Bromoform	ND	ug/kg	4.5	1		05/15/19 23:13	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		05/15/19 23:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.7	1		05/15/19 23:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		05/15/19 23:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		05/15/19 23:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		05/15/19 23:13	98-06-6	
Carbon disulfide	ND	ug/kg	9.1	1		05/15/19 23:13	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		05/15/19 23:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		05/15/19 23:13	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		05/15/19 23:13	75-00-3	
Chloroform	ND	ug/kg	4.5	1		05/15/19 23:13	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		05/15/19 23:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		05/15/19 23:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		05/15/19 23:13	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		05/15/19 23:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		05/15/19 23:13	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		05/15/19 23:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		05/15/19 23:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		05/15/19 23:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		05/15/19 23:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	90.6	1		05/15/19 23:13	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		05/15/19 23:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		05/15/19 23:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		05/15/19 23:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		05/15/19 23:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		05/15/19 23:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		05/15/19 23:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		05/15/19 23:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		05/15/19 23:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		05/15/19 23:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		05/15/19 23:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		05/15/19 23:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		05/15/19 23:13	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		05/15/19 23:13	100-41-4	
Ethyl methacrylate	ND	ug/kg	90.6	1		05/15/19 23:13	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		05/15/19 23:13	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		05/15/19 23:13	110-54-3	
2-Hexanone	ND	ug/kg	90.6	1		05/15/19 23:13	591-78-6	
Iodomethane	ND	ug/kg	90.6	1		05/15/19 23:13	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (2-0) **Lab ID: 50224684001** Collected: 05/10/19 09:56 Received: 05/10/19 16:35 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						
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		05/15/19 23:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		05/15/19 23:13	99-87-6	
Methylene Chloride	ND	ug/kg	18.1	1		05/15/19 23:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.7	1		05/15/19 23:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		05/15/19 23:13	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/16/19 23:19	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		05/15/19 23:13	103-65-1	
Styrene	ND	ug/kg	4.5	1		05/15/19 23:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		05/15/19 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		05/15/19 23:13	79-34-5	
Tetrachloroethene	4.6	ug/kg	4.5	1		05/15/19 23:13	127-18-4	
Toluene	ND	ug/kg	4.5	1		05/15/19 23:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		05/15/19 23:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		05/15/19 23:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		05/15/19 23:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		05/15/19 23:13	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		05/15/19 23:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		05/15/19 23:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		05/15/19 23:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		05/15/19 23:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		05/15/19 23:13	108-67-8	
Vinyl acetate	ND	ug/kg	90.6	1		05/15/19 23:13	108-05-4	
Vinyl chloride	ND	ug/kg	4.5	1		05/15/19 23:13	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		05/15/19 23:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	77-131	1		05/15/19 23:13	1868-53-7	
Toluene-d8 (S)	103	%	77-127	1		05/15/19 23:13	2037-26-5	
4-Bromofluorobenzene (S)	81	%	65-119	1		05/15/19 23:13	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	13.4	%	0.10	1		05/16/19 09:14		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (4-2) **Lab ID: 50224684002** Collected: 05/10/19 10:01 Received: 05/10/19 16:35 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						
Acetone	ND	ug/kg	93.6	1		05/15/19 23:43	67-64-1	
Acrolein	ND	ug/kg	93.6	1		05/15/19 23:43	107-02-8	
Acrylonitrile	ND	ug/kg	93.6	1		05/15/19 23:43	107-13-1	
Benzene	ND	ug/kg	4.7	1		05/15/19 23:43	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		05/15/19 23:43	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		05/15/19 23:43	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		05/15/19 23:43	75-27-4	
Bromoform	ND	ug/kg	4.7	1		05/15/19 23:43	75-25-2	
Bromomethane	ND	ug/kg	4.7	1		05/15/19 23:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.4	1		05/15/19 23:43	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		05/15/19 23:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		05/15/19 23:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		05/15/19 23:43	98-06-6	
Carbon disulfide	ND	ug/kg	9.4	1		05/15/19 23:43	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.7	1		05/15/19 23:43	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		05/15/19 23:43	108-90-7	
Chloroethane	ND	ug/kg	4.7	1		05/15/19 23:43	75-00-3	
Chloroform	ND	ug/kg	4.7	1		05/15/19 23:43	67-66-3	
Chloromethane	ND	ug/kg	4.7	1		05/15/19 23:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		05/15/19 23:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		05/15/19 23:43	106-43-4	
Dibromochloromethane	ND	ug/kg	4.7	1		05/15/19 23:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		05/15/19 23:43	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		05/15/19 23:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		05/15/19 23:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		05/15/19 23:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		05/15/19 23:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	93.6	1		05/15/19 23:43	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.7	1		05/15/19 23:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		05/15/19 23:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		05/15/19 23:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		05/15/19 23:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/15/19 23:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/15/19 23:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		05/15/19 23:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		05/15/19 23:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		05/15/19 23:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		05/15/19 23:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/15/19 23:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/15/19 23:43	10061-02-6	
Ethylbenzene	ND	ug/kg	4.7	1		05/15/19 23:43	100-41-4	
Ethyl methacrylate	ND	ug/kg	93.6	1		05/15/19 23:43	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		05/15/19 23:43	87-68-3	
n-Hexane	ND	ug/kg	4.7	1		05/15/19 23:43	110-54-3	
2-Hexanone	ND	ug/kg	93.6	1		05/15/19 23:43	591-78-6	
Iodomethane	ND	ug/kg	93.6	1		05/15/19 23:43	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (4-2) **Lab ID: 50224684002** Collected: 05/10/19 10:01 Received: 05/10/19 16:35 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						
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		05/15/19 23:43	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		05/15/19 23:43	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		05/15/19 23:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.4	1		05/15/19 23:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		05/15/19 23:43	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		05/16/19 23:50	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		05/15/19 23:43	103-65-1	
Styrene	ND	ug/kg	4.7	1		05/15/19 23:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/15/19 23:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/15/19 23:43	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		05/15/19 23:43	127-18-4	
Toluene	ND	ug/kg	4.7	1		05/15/19 23:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		05/15/19 23:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		05/15/19 23:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		05/15/19 23:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		05/15/19 23:43	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		05/15/19 23:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		05/15/19 23:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		05/15/19 23:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		05/15/19 23:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		05/15/19 23:43	108-67-8	
Vinyl acetate	ND	ug/kg	93.6	1		05/15/19 23:43	108-05-4	
Vinyl chloride	ND	ug/kg	4.7	1		05/15/19 23:43	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		05/15/19 23:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	77-131	1		05/15/19 23:43	1868-53-7	
Toluene-d8 (S)	100	%	77-127	1		05/15/19 23:43	2037-26-5	
4-Bromofluorobenzene (S)	91	%	65-119	1		05/15/19 23:43	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	13.7	%	0.10	1		05/16/19 09:14		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (2-0) **Lab ID: 50224684003** Collected: 05/10/19 13:20 Received: 05/10/19 16:35 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						
Acetone	ND	ug/kg	94.4	1		05/16/19 00:14	67-64-1	
Acrolein	ND	ug/kg	94.4	1		05/16/19 00:14	107-02-8	
Acrylonitrile	ND	ug/kg	94.4	1		05/16/19 00:14	107-13-1	
Benzene	ND	ug/kg	4.7	1		05/16/19 00:14	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		05/16/19 00:14	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		05/16/19 00:14	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		05/16/19 00:14	75-27-4	
Bromoform	ND	ug/kg	4.7	1		05/16/19 00:14	75-25-2	
Bromomethane	ND	ug/kg	4.7	1		05/16/19 00:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.6	1		05/16/19 00:14	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		05/16/19 00:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		05/16/19 00:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		05/16/19 00:14	98-06-6	
Carbon disulfide	ND	ug/kg	9.4	1		05/16/19 00:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.7	1		05/16/19 00:14	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		05/16/19 00:14	108-90-7	
Chloroethane	ND	ug/kg	4.7	1		05/16/19 00:14	75-00-3	
Chloroform	ND	ug/kg	4.7	1		05/16/19 00:14	67-66-3	
Chloromethane	ND	ug/kg	4.7	1		05/16/19 00:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		05/16/19 00:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		05/16/19 00:14	106-43-4	
Dibromochloromethane	ND	ug/kg	4.7	1		05/16/19 00:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		05/16/19 00:14	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		05/16/19 00:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		05/16/19 00:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		05/16/19 00:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		05/16/19 00:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	94.4	1		05/16/19 00:14	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.7	1		05/16/19 00:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		05/16/19 00:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		05/16/19 00:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		05/16/19 00:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/16/19 00:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/16/19 00:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		05/16/19 00:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		05/16/19 00:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		05/16/19 00:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		05/16/19 00:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/16/19 00:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/16/19 00:14	10061-02-6	
Ethylbenzene	ND	ug/kg	4.7	1		05/16/19 00:14	100-41-4	
Ethyl methacrylate	ND	ug/kg	94.4	1		05/16/19 00:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		05/16/19 00:14	87-68-3	
n-Hexane	ND	ug/kg	4.7	1		05/16/19 00:14	110-54-3	
2-Hexanone	ND	ug/kg	94.4	1		05/16/19 00:14	591-78-6	
Iodomethane	ND	ug/kg	94.4	1		05/16/19 00:14	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (2-0) **Lab ID: 50224684003** Collected: 05/10/19 13:20 Received: 05/10/19 16:35 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						
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		05/16/19 00:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		05/16/19 00:14	99-87-6	
Methylene Chloride	ND	ug/kg	18.9	1		05/16/19 00:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.6	1		05/16/19 00:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		05/16/19 00:14	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		05/17/19 00:21	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		05/16/19 00:14	103-65-1	
Styrene	ND	ug/kg	4.7	1		05/16/19 00:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/16/19 00:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/16/19 00:14	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		05/16/19 00:14	127-18-4	
Toluene	ND	ug/kg	4.7	1		05/16/19 00:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		05/16/19 00:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		05/16/19 00:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		05/16/19 00:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		05/16/19 00:14	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		05/16/19 00:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		05/16/19 00:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		05/16/19 00:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		05/16/19 00:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		05/16/19 00:14	108-67-8	
Vinyl acetate	ND	ug/kg	94.4	1		05/16/19 00:14	108-05-4	
Vinyl chloride	ND	ug/kg	4.7	1		05/16/19 00:14	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		05/16/19 00:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	77-131	1		05/16/19 00:14	1868-53-7	
Toluene-d8 (S)	111	%	77-127	1		05/16/19 00:14	2037-26-5	
4-Bromofluorobenzene (S)	68	%	65-119	1		05/16/19 00:14	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	13.9	%	0.10	1		05/16/19 09:14		

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (4-2) **Lab ID: 50224684004** Collected: 05/10/19 13:25 Received: 05/10/19 16:35 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						
Acetone	ND	ug/kg	104	1		05/16/19 04:20	67-64-1	
Acrolein	ND	ug/kg	104	1		05/16/19 04:20	107-02-8	
Acrylonitrile	ND	ug/kg	104	1		05/16/19 04:20	107-13-1	
Benzene	ND	ug/kg	5.2	1		05/16/19 04:20	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		05/16/19 04:20	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		05/16/19 04:20	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		05/16/19 04:20	75-27-4	
Bromoform	ND	ug/kg	5.2	1		05/16/19 04:20	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		05/16/19 04:20	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.0	1		05/16/19 04:20	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		05/16/19 04:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		05/16/19 04:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		05/16/19 04:20	98-06-6	
Carbon disulfide	ND	ug/kg	10.4	1		05/16/19 04:20	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		05/16/19 04:20	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		05/16/19 04:20	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		05/16/19 04:20	75-00-3	
Chloroform	ND	ug/kg	5.2	1		05/16/19 04:20	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		05/16/19 04:20	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		05/16/19 04:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		05/16/19 04:20	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		05/16/19 04:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		05/16/19 04:20	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		05/16/19 04:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		05/16/19 04:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		05/16/19 04:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		05/16/19 04:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	104	1		05/16/19 04:20	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		05/16/19 04:20	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		05/16/19 04:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		05/16/19 04:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		05/16/19 04:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		05/16/19 04:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		05/16/19 04:20	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		05/16/19 04:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		05/16/19 04:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		05/16/19 04:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		05/16/19 04:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		05/16/19 04:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		05/16/19 04:20	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		05/16/19 04:20	100-41-4	
Ethyl methacrylate	ND	ug/kg	104	1		05/16/19 04:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		05/16/19 04:20	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		05/16/19 04:20	110-54-3	
2-Hexanone	ND	ug/kg	104	1		05/16/19 04:20	591-78-6	
Iodomethane	ND	ug/kg	104	1		05/16/19 04:20	74-88-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (4-2) **Lab ID: 50224684004** Collected: 05/10/19 13:25 Received: 05/10/19 16:35 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						
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		05/16/19 04:20	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		05/16/19 04:20	99-87-6	
Methylene Chloride	ND	ug/kg	20.8	1		05/16/19 04:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.0	1		05/16/19 04:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		05/16/19 04:20	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		05/16/19 04:20	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		05/16/19 04:20	103-65-1	
Styrene	ND	ug/kg	5.2	1		05/16/19 04:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		05/16/19 04:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		05/16/19 04:20	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		05/16/19 04:20	127-18-4	
Toluene	ND	ug/kg	5.2	1		05/16/19 04:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		05/16/19 04:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		05/16/19 04:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		05/16/19 04:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		05/16/19 04:20	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		05/16/19 04:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		05/16/19 04:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		05/16/19 04:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		05/16/19 04:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		05/16/19 04:20	108-67-8	
Vinyl acetate	ND	ug/kg	104	1		05/16/19 04:20	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		05/16/19 04:20	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		05/16/19 04:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	77-131	1		05/16/19 04:20	1868-53-7	
Toluene-d8 (S)	103	%	77-127	1		05/16/19 04:20	2037-26-5	
4-Bromofluorobenzene (S)	89	%	65-119	1		05/16/19 04:20	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	14.9	%	0.10	1		05/16/19 09:15		
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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: WC SL (051019) **Lab ID: 50224684005** Collected: 05/10/19 14:49 Received: 05/10/19 16:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010
Leachate Method/Date: EPA 1311; 05/15/19 14:00 Initial pH: 8.78; Final pH: 6.61

Arsenic	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 08:56	7440-38-2	
Barium	ND	mg/L	5.0	1	05/17/19 06:10	05/18/19 08:56	7440-39-3	
Cadmium	ND	mg/L	0.050	1	05/17/19 06:10	05/18/19 08:56	7440-43-9	
Chromium	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 08:56	7440-47-3	
Lead	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 08:56	7439-92-1	
Selenium	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 08:56	7782-49-2	
Silver	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 08:56	7440-22-4	

7470 Mercury, TCLP

Analytical Method: EPA 7470 Preparation Method: EPA 7470
Leachate Method/Date: EPA 1311; 05/15/19 14:00 Initial pH: 8.78; Final pH: 6.61

Mercury	ND	mg/L	0.0020	1	05/16/19 21:39	05/17/19 12:01	7439-97-6	
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8270 MSSV TCLP Sep Funnel

Analytical Method: EPA 8270 Preparation Method: EPA 3510
Leachate Method/Date: EPA 1311; 05/15/19 14:00 Initial pH: 8.78; Final pH: 6.61

1,4-Dichlorobenzene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	118-74-1	
Hexachloroethane	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	200	1	05/17/19 09:25	05/20/19 08:40		
Nitrobenzene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	98-95-3	
Pentachlorophenol	ND	ug/L	500	1	05/17/19 09:25	05/20/19 08:40	87-86-5	
Pyridine	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	500	1	05/17/19 09:25	05/20/19 08:40	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	50	%	27-95	1	05/17/19 09:25	05/20/19 08:40	4165-60-0	
2-Fluorobiphenyl (S)	46	%	19-93	1	05/17/19 09:25	05/20/19 08:40	321-60-8	
p-Terphenyl-d14 (S)	63	%	11-147	1	05/17/19 09:25	05/20/19 08:40	1718-51-0	
Phenol-d5 (S)	18	%	10-42	1	05/17/19 09:25	05/20/19 08:40	4165-62-2	
2-Fluorophenol (S)	25	%	10-59	1	05/17/19 09:25	05/20/19 08:40	367-12-4	
2,4,6-Tribromophenol (S)	40	%	33-108	1	05/17/19 09:25	05/20/19 08:40	118-79-6	

8260 MSV TCLP

Analytical Method: EPA 5030/8260 Leachate Method/Date: EPA 1311; 05/15/19 14:00

Benzene	ND	ug/L	50.0	1		05/17/19 11:48	71-43-2	
2-Butanone (MEK)	ND	ug/L	1000	1		05/17/19 11:48	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		05/17/19 11:48	56-23-5	
Chlorobenzene	ND	ug/L	50.0	1		05/17/19 11:48	108-90-7	
Chloroform	ND	ug/L	50.0	1		05/17/19 11:48	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		05/17/19 11:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		05/17/19 11:48	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		05/17/19 11:48	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		05/17/19 11:48	79-01-6	
Vinyl chloride	ND	ug/L	20.0	1		05/17/19 11:48	75-01-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: WC SL (051019) **Lab ID: 50224684005** Collected: 05/10/19 14:49 Received: 05/10/19 16:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP		Analytical Method: EPA 5030/8260 Leachate Method/Date: EPA 1311; 05/15/19 14:00						
Surrogates								
Toluene-d8 (S)	92	%.	85-114	1		05/17/19 11:48	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	85-114	1		05/17/19 11:48	460-00-4	
Dibromofluoromethane (S)	118	%.	80-122	1		05/17/19 11:48	1868-53-7	
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200	deg F		1		05/14/19 08:27		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	8.3	Std. Units	0.10	1		05/13/19 14:20		H3

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: TB-5 (051019)	Lab ID: 50224684006	Collected: 05/10/19 10:50	Received: 05/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/17/19 03:12	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/17/19 03:12	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/17/19 03:12	107-13-1	
Benzene	ND	ug/L	5.0	1		05/17/19 03:12	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/17/19 03:12	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/17/19 03:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/17/19 03:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/17/19 03:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/17/19 03:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/17/19 03:12	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/17/19 03:12	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/17/19 03:12	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/17/19 03:12	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/17/19 03:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/17/19 03:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/17/19 03:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/17/19 03:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/17/19 03:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/17/19 03:12	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 03:12	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 03:12	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/17/19 03:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/17/19 03:12	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/17/19 03:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/17/19 03:12	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/17/19 03:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/17/19 03:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/17/19 03:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/17/19 03:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 03:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 03:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 03:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/17/19 03:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 03:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/17/19 03:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 03:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 03:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/17/19 03:12	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/17/19 03:12	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/17/19 03:12	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/17/19 03:12	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/17/19 03:12	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/17/19 03:12	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/17/19 03:12	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: TB-5 (051019)		Lab ID: 50224684006	Collected: 05/10/19 10:50	Received: 05/10/19 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/17/19 03:12	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/17/19 03:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/17/19 03:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/17/19 03:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/17/19 03:12	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/17/19 03:12	103-65-1	
Styrene	ND	ug/L	5.0	1		05/17/19 03:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 03:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 03:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/17/19 03:12	127-18-4	
Toluene	ND	ug/L	5.0	1		05/17/19 03:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/17/19 03:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/17/19 03:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/17/19 03:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/17/19 03:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/17/19 03:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 03:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 03:12	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/17/19 03:12	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/17/19 03:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/17/19 03:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	117	%.	80-122	1		05/17/19 03:12	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	85-114	1		05/17/19 03:12	460-00-4	
Toluene-d8 (S)	96	%.	85-114	1		05/17/19 03:12	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (21-17) GW	Lab ID: 50224684007	Collected: 05/10/19 10:58	Received: 05/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/17/19 03:50	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/17/19 03:50	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/17/19 03:50	107-13-1	
Benzene	ND	ug/L	5.0	1		05/17/19 03:50	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/17/19 03:50	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/17/19 03:50	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/17/19 03:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/17/19 03:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/17/19 03:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/17/19 03:50	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/17/19 03:50	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/17/19 03:50	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/17/19 03:50	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/17/19 03:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/17/19 03:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/17/19 03:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/17/19 03:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/17/19 03:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/17/19 03:50	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 03:50	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 03:50	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/17/19 03:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/17/19 03:50	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/17/19 03:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/17/19 03:50	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/17/19 03:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/17/19 03:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/17/19 03:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/17/19 03:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 03:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 03:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 03:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/17/19 03:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 03:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/17/19 03:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 03:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 03:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/17/19 03:50	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/17/19 03:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/17/19 03:50	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/17/19 03:50	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/17/19 03:50	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/17/19 03:50	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/17/19 03:50	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (21-17) GW		Lab ID: 50224684007	Collected: 05/10/19 10:58	Received: 05/10/19 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/17/19 03:50	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/17/19 03:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/17/19 03:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/17/19 03:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/17/19 03:50	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/17/19 03:50	103-65-1	
Styrene	ND	ug/L	5.0	1		05/17/19 03:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 03:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 03:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/17/19 03:50	127-18-4	
Toluene	ND	ug/L	5.0	1		05/17/19 03:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 03:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/17/19 03:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/17/19 03:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/17/19 03:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/17/19 03:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/17/19 03:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 03:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 03:50	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/17/19 03:50	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/17/19 03:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/17/19 03:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	117	%.	80-122	1		05/17/19 03:50	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	85-114	1		05/17/19 03:50	460-00-4	
Toluene-d8 (S)	92	%.	85-114	1		05/17/19 03:50	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (17-13) GW	Lab ID: 50224684008	Collected: 05/10/19 11:58	Received: 05/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/17/19 05:44	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/17/19 05:44	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/17/19 05:44	107-13-1	
Benzene	ND	ug/L	5.0	1		05/17/19 05:44	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/17/19 05:44	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/17/19 05:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/17/19 05:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/17/19 05:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/17/19 05:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/17/19 05:44	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/17/19 05:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/17/19 05:44	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/17/19 05:44	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/17/19 05:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/17/19 05:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/17/19 05:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/17/19 05:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/17/19 05:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/17/19 05:44	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 05:44	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 05:44	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/17/19 05:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/17/19 05:44	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/17/19 05:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 05:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 05:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 05:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/17/19 05:44	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/17/19 05:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/17/19 05:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/17/19 05:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/17/19 05:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 05:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 05:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 05:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/17/19 05:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 05:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/17/19 05:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 05:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 05:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/17/19 05:44	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/17/19 05:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/17/19 05:44	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/17/19 05:44	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/17/19 05:44	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/17/19 05:44	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/17/19 05:44	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (17-13) GW		Lab ID: 50224684008	Collected: 05/10/19 11:58	Received: 05/10/19 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/17/19 05:44	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/17/19 05:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/17/19 05:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/17/19 05:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/17/19 05:44	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/17/19 05:44	103-65-1	
Styrene	ND	ug/L	5.0	1		05/17/19 05:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 05:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 05:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/17/19 05:44	127-18-4	
Toluene	ND	ug/L	5.0	1		05/17/19 05:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 05:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 05:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/17/19 05:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/17/19 05:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/17/19 05:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/17/19 05:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/17/19 05:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 05:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 05:44	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/17/19 05:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/17/19 05:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/17/19 05:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	113	%.	80-122	1		05/17/19 05:44	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	85-114	1		05/17/19 05:44	460-00-4	
Toluene-d8 (S)	95	%.	85-114	1		05/17/19 05:44	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (13-9) GW	Lab ID: 50224684009	Collected: 05/10/19 11:43	Received: 05/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/17/19 21:05	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/17/19 21:05	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/17/19 21:05	107-13-1	
Benzene	ND	ug/L	5.0	1		05/17/19 21:05	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/17/19 21:05	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/17/19 21:05	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/17/19 21:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/17/19 21:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/17/19 21:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/17/19 21:05	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/17/19 21:05	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/17/19 21:05	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/17/19 21:05	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/17/19 21:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/17/19 21:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/17/19 21:05	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/17/19 21:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/17/19 21:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/17/19 21:05	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 21:05	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 21:05	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/17/19 21:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/17/19 21:05	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/17/19 21:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/17/19 21:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/17/19 21:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/17/19 21:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/17/19 21:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/17/19 21:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 21:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 21:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 21:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/17/19 21:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 21:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/17/19 21:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 21:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 21:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/17/19 21:05	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/17/19 21:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/17/19 21:05	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/17/19 21:05	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/17/19 21:05	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/17/19 21:05	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/17/19 21:05	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-11 (13-9) GW		Lab ID: 50224684009	Collected: 05/10/19 11:43	Received: 05/10/19 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/17/19 21:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/17/19 21:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/17/19 21:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/17/19 21:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/17/19 21:05	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/17/19 21:05	103-65-1	
Styrene	ND	ug/L	5.0	1		05/17/19 21:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 21:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 21:05	79-34-5	
Tetrachloroethene	7.8	ug/L	5.0	1		05/17/19 21:05	127-18-4	
Toluene	ND	ug/L	5.0	1		05/17/19 21:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/17/19 21:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/17/19 21:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/17/19 21:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/17/19 21:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/17/19 21:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 21:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 21:05	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/17/19 21:05	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/17/19 21:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/17/19 21:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	122	%.	80-122	1		05/17/19 21:05	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	85-114	1		05/17/19 21:05	460-00-4	
Toluene-d8 (S)	86	%.	85-114	1		05/17/19 21:05	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (24-20) GW	Lab ID: 50224684010	Collected: 05/10/19 13:38	Received: 05/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/17/19 21:43	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/17/19 21:43	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/17/19 21:43	107-13-1	
Benzene	ND	ug/L	5.0	1		05/17/19 21:43	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/17/19 21:43	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/17/19 21:43	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/17/19 21:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/17/19 21:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/17/19 21:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/17/19 21:43	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/17/19 21:43	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/17/19 21:43	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/17/19 21:43	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/17/19 21:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/17/19 21:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/17/19 21:43	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/17/19 21:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/17/19 21:43	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/17/19 21:43	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 21:43	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 21:43	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/17/19 21:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/17/19 21:43	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/17/19 21:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/17/19 21:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/17/19 21:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/17/19 21:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/17/19 21:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/17/19 21:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 21:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 21:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/17/19 21:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 21:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/17/19 21:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 21:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 21:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/17/19 21:43	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/17/19 21:43	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/17/19 21:43	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/17/19 21:43	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/17/19 21:43	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/17/19 21:43	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/17/19 21:43	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (24-20) GW		Lab ID: 50224684010	Collected: 05/10/19 13:38	Received: 05/10/19 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/17/19 21:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/17/19 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/17/19 21:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/17/19 21:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/17/19 21:43	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/17/19 21:43	103-65-1	
Styrene	ND	ug/L	5.0	1		05/17/19 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 21:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 21:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/17/19 21:43	127-18-4	
Toluene	ND	ug/L	5.0	1		05/17/19 21:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 21:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/17/19 21:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/17/19 21:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/17/19 21:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/17/19 21:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/17/19 21:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 21:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 21:43	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/17/19 21:43	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/17/19 21:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/17/19 21:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	118	%.	80-122	1		05/17/19 21:43	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	85-114	1		05/17/19 21:43	460-00-4	
Toluene-d8 (S)	90	%.	85-114	1		05/17/19 21:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (17-13) GW	Lab ID: 50224684011	Collected: 05/10/19 13:53	Received: 05/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/17/19 22:21	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/17/19 22:21	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/17/19 22:21	107-13-1	
Benzene	ND	ug/L	5.0	1		05/17/19 22:21	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/17/19 22:21	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/17/19 22:21	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/17/19 22:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/17/19 22:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/17/19 22:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/17/19 22:21	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/17/19 22:21	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/17/19 22:21	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/17/19 22:21	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/17/19 22:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/17/19 22:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/17/19 22:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/17/19 22:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/17/19 22:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/17/19 22:21	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 22:21	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 22:21	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/17/19 22:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/17/19 22:21	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/17/19 22:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 22:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 22:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 22:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/17/19 22:21	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/17/19 22:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/17/19 22:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/17/19 22:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/17/19 22:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 22:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 22:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 22:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/17/19 22:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 22:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/17/19 22:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 22:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 22:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/17/19 22:21	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/17/19 22:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/17/19 22:21	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/17/19 22:21	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/17/19 22:21	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/17/19 22:21	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/17/19 22:21	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (17-13) GW		Lab ID: 50224684011	Collected: 05/10/19 13:53	Received: 05/10/19 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/17/19 22:21	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/17/19 22:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/17/19 22:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/17/19 22:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/17/19 22:21	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/17/19 22:21	103-65-1	
Styrene	ND	ug/L	5.0	1		05/17/19 22:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 22:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 22:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/17/19 22:21	127-18-4	
Toluene	ND	ug/L	5.0	1		05/17/19 22:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 22:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 22:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/17/19 22:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/17/19 22:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/17/19 22:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/17/19 22:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/17/19 22:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 22:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 22:21	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/17/19 22:21	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/17/19 22:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/17/19 22:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	121	%.	80-122	1		05/17/19 22:21	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	85-114	1		05/17/19 22:21	460-00-4	
Toluene-d8 (S)	88	%.	85-114	1		05/17/19 22:21	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (10-6) GW	Lab ID: 50224684012	Collected: 05/10/19 14:08	Received: 05/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/17/19 08:17	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/17/19 08:17	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/17/19 08:17	107-13-1	
Benzene	ND	ug/L	5.0	1		05/17/19 08:17	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/17/19 08:17	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/17/19 08:17	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/17/19 08:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/17/19 08:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/17/19 08:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/17/19 08:17	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/17/19 08:17	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/17/19 08:17	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/17/19 08:17	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/17/19 08:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/17/19 08:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/17/19 08:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/17/19 08:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/17/19 08:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/17/19 08:17	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 08:17	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/17/19 08:17	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/17/19 08:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/17/19 08:17	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/17/19 08:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 08:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 08:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/17/19 08:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/17/19 08:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/17/19 08:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/17/19 08:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/17/19 08:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/17/19 08:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 08:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/17/19 08:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 08:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/17/19 08:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/17/19 08:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/17/19 08:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 08:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/17/19 08:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/17/19 08:17	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/17/19 08:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/17/19 08:17	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/17/19 08:17	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/17/19 08:17	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/17/19 08:17	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/17/19 08:17	98-82-8	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: SB-12 (10-6) GW		Lab ID: 50224684012	Collected: 05/10/19 14:08	Received: 05/10/19 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		05/17/19 08:17	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/17/19 08:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/17/19 08:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/17/19 08:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/17/19 08:17	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/17/19 08:17	103-65-1	
Styrene	ND	ug/L	5.0	1		05/17/19 08:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 08:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/17/19 08:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/17/19 08:17	127-18-4	
Toluene	ND	ug/L	5.0	1		05/17/19 08:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 08:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/17/19 08:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/17/19 08:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/17/19 08:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/17/19 08:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/17/19 08:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/17/19 08:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 08:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/17/19 08:17	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/17/19 08:17	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/17/19 08:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/17/19 08:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	119	%.	80-122	1		05/17/19 08:17	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	85-114	1		05/17/19 08:17	460-00-4	
Toluene-d8 (S)	94	%.	85-114	1		05/17/19 08:17	2037-26-5	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: WC WT (051019)	Lab ID: 50224684013	Collected: 05/10/19 14:30	Received: 05/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 05/15/19 14:00 Initial pH: 8.04; Final pH: 8.04								
Arsenic	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 09:00	7440-38-2	
Barium	ND	mg/L	5.0	1	05/17/19 06:10	05/18/19 09:00	7440-39-3	
Cadmium	ND	mg/L	0.050	1	05/17/19 06:10	05/18/19 09:00	7440-43-9	
Chromium	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 09:00	7440-47-3	
Lead	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 09:00	7439-92-1	
Selenium	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 09:00	7782-49-2	
Silver	ND	mg/L	0.10	1	05/17/19 06:10	05/18/19 09:00	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Leachate Method/Date: EPA 1311; 05/15/19 14:00 Initial pH: 8.04; Final pH: 8.04								
Mercury	ND	mg/L	0.0020	1	05/16/19 21:39	05/17/19 12:03	7439-97-6	
8270 MSSV TCLP Sep Funnel								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Leachate Method/Date: EPA 1311; 05/15/19 14:00 Initial pH: 8.04; Final pH: 8.04								
1,4-Dichlorobenzene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	118-74-1	
Hexachloroethane	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	200	1	05/17/19 09:25	05/20/19 08:56		
Nitrobenzene	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	98-95-3	
Pentachlorophenol	ND	ug/L	500	1	05/17/19 09:25	05/20/19 08:56	87-86-5	
Pyridine	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	500	1	05/17/19 09:25	05/20/19 08:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	05/17/19 09:25	05/20/19 08:56	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	70	%	27-95	1	05/17/19 09:25	05/20/19 08:56	4165-60-0	
2-Fluorobiphenyl (S)	77	%	19-93	1	05/17/19 09:25	05/20/19 08:56	321-60-8	
p-Terphenyl-d14 (S)	103	%	11-147	1	05/17/19 09:25	05/20/19 08:56	1718-51-0	
Phenol-d5 (S)	19	%	10-42	1	05/17/19 09:25	05/20/19 08:56	4165-62-2	
2-Fluorophenol (S)	33	%	10-59	1	05/17/19 09:25	05/20/19 08:56	367-12-4	
2,4,6-Tribromophenol (S)	56	%	33-108	1	05/17/19 09:25	05/20/19 08:56	118-79-6	
8260 MSV TCLP								
Analytical Method: EPA 5030/8260 Leachate Method/Date: EPA 1311; 05/15/19 14:00								
Benzene	ND	ug/L	50.0	1		05/17/19 18:32	71-43-2	
2-Butanone (MEK)	ND	ug/L	1000	1		05/17/19 18:32	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		05/17/19 18:32	56-23-5	
Chlorobenzene	ND	ug/L	50.0	1		05/17/19 18:32	108-90-7	
Chloroform	ND	ug/L	50.0	1		05/17/19 18:32	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		05/17/19 18:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		05/17/19 18:32	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		05/17/19 18:32	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		05/17/19 18:32	79-01-6	
Vinyl chloride	ND	ug/L	20.0	1		05/17/19 18:32	75-01-4	

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ANALYTICAL RESULTS

Project: IN001342.0001

Pace Project No.: 50224684

Sample: WC WT (051019)		Lab ID: 50224684013		Collected: 05/10/19 14:30	Received: 05/10/19 16:35	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP		Analytical Method: EPA 5030/8260 Leachate Method/Date: EPA 1311; 05/15/19 14:00						
Surrogates								
Toluene-d8 (S)	94	%.	85-114	1		05/17/19 18:32	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	85-114	1		05/17/19 18:32	460-00-4	
Dibromofluoromethane (S)	124	%.	80-122	1		05/17/19 18:32	1868-53-7	S3
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200	deg F		1		05/14/19 10:16		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	7.9	Std. Units	0.10	1		05/13/19 11:41		H3

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224684

QC Batch: 500781 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 50224684005, 50224684013

METHOD BLANK: 2310769 Matrix: Water
Associated Lab Samples: 50224684005, 50224684013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00067	05/17/19 11:44	

LABORATORY CONTROL SAMPLE: 2310770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0052	105	80-120	

MATRIX SPIKE SAMPLE: 2310771

Parameter	Units	50224106001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.0010	0.015	0.015	102	75-125	

MATRIX SPIKE SAMPLE: 2310772

Parameter	Units	50224684013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.014	93	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2310773 2310774

Parameter	Units	50224816001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	<0.0010	0.015	0.015	0.013	0.015	87	99	75-125	13	20	

MATRIX SPIKE SAMPLE: 2310775

Parameter	Units	50224679001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.016	103	75-125	

MATRIX SPIKE SAMPLE: 2310776

Parameter	Units	50224415001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.0040	0.03	0.030	100	75-125	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

MATRIX SPIKE SAMPLE: 2310777		50225061001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.015	97	75-125	

MATRIX SPIKE SAMPLE: 2310778		50224950001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.014	97	75-125	

MATRIX SPIKE SAMPLE: 2310779		50224959001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.014	91	75-125	

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224684

QC Batch: 500882 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 50224684005, 50224684013

METHOD BLANK: 2311338 Matrix: Water
Associated Lab Samples: 50224684005, 50224684013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	05/18/19 08:48	
Barium	mg/L	ND	0.50	05/18/19 08:48	
Cadmium	mg/L	ND	0.0050	05/18/19 08:48	
Chromium	mg/L	ND	0.010	05/18/19 08:48	
Lead	mg/L	ND	0.010	05/18/19 08:48	
Selenium	mg/L	ND	0.010	05/18/19 08:48	
Silver	mg/L	ND	0.010	05/18/19 08:48	

LABORATORY CONTROL SAMPLE: 2311339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	1.0	102	80-120	
Barium	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	1	1.0	102	80-120	
Lead	mg/L	1	0.99	99	80-120	
Selenium	mg/L	1	1.0	104	80-120	
Silver	mg/L	0.5	0.48	96	80-120	

MATRIX SPIKE SAMPLE: 2311340

Parameter	Units	50224106001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.050	10	10.5	105	50-150	
Barium	mg/L	0.37J	10	10.4	101	50-150	
Cadmium	mg/L	<0.025	10	10.6	106	50-150	
Chromium	mg/L	<0.052	10	10.1	101	50-150	
Lead	mg/L	<0.050	10	9.5	95	50-150	
Selenium	mg/L	<0.050	10	10.7	107	50-150	
Silver	mg/L	<0.050	5	4.9	99	50-150	

MATRIX SPIKE SAMPLE: 2311341

Parameter	Units	50224684005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	10	10.4	104	50-150	
Barium	mg/L	ND	10	10.6	99	50-150	
Cadmium	mg/L	ND	10	10.5	105	50-150	
Chromium	mg/L	ND	10	10	100	50-150	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

MATRIX SPIKE SAMPLE:		2311341		50224684005		Spike	MS	MS	% Rec		
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers		
Lead	mg/L	ND	10	9.5	95	50-150					
Selenium	mg/L	ND	10	10.6	106	50-150					
Silver	mg/L	ND	5	4.9	97	50-150					

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2311342		2311343		50224816001		MS	MSD	MS	MSD	% Rec	Max		
Parameter	Units	Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual		
Arsenic	mg/L	<50.0 ug/L	10	10	10	10.6	10.4	105	104	50-150	1	20			
Barium	mg/L	826J ug/L	10	10	10	10.9	10.7	101	99	50-150	2	20			
Cadmium	mg/L	<25.0 ug/L	10	10	10	10.6	10.4	106	104	50-150	2	20			
Chromium	mg/L	<52.0 ug/L	10	10	10	10.1	9.9	101	99	50-150	2	20			
Lead	mg/L	<50.0 ug/L	10	10	10	9.5	9.3	95	93	50-150	2	20			
Selenium	mg/L	<50.0 ug/L	10	10	10	10.7	10.6	107	106	50-150	1	20			
Silver	mg/L	<50.0 ug/L	5	5	5	5.0	4.8	99	97	50-150	2	20			

MATRIX SPIKE SAMPLE:		2311344		50224679001		Spike	MS	MS	% Rec		
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers		
Arsenic	mg/L	ND	10	10.5	105	50-150					
Barium	mg/L	ND	10	10.1	101	50-150					
Cadmium	mg/L	ND	10	10.6	105	50-150					
Chromium	mg/L	ND	10	10.2	102	50-150					
Lead	mg/L	ND	10	9.6	96	50-150					
Selenium	mg/L	ND	10	10.6	106	50-150					
Silver	mg/L	ND	5	4.9	98	50-150					

MATRIX SPIKE SAMPLE:		2311345		50225133001		Spike	MS	MS	% Rec		
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers		
Arsenic	mg/L	ND	10	10.5	105	50-150					
Barium	mg/L	ND	10	10.7	101	50-150					
Cadmium	mg/L	ND	10	10.5	105	50-150					
Chromium	mg/L	ND	10	10.1	101	50-150					
Lead	mg/L	ND	10	9.5	95	50-150					
Selenium	mg/L	ND	10	10.6	106	50-150					
Silver	mg/L	ND	5	4.9	99	50-150					

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224684

MATRIX SPIKE SAMPLE: 2311346		50224415001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	0.18	10	10.5	103	50-150	
Barium	mg/L	<5.0	10	10.0	100	50-150	
Cadmium	mg/L	<0.050	10	10.4	104	50-150	
Chromium	mg/L	0.21	10	10.2	100	50-150	
Lead	mg/L	<0.10	10	9.3	93	50-150	
Selenium	mg/L	<0.10	10	10.8	107	50-150	
Silver	mg/L	<0.10	5	4.8	97	50-150	

MATRIX SPIKE SAMPLE: 2311347		50225061001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	10.3	103	50-150	
Barium	mg/L	ND	10	10.0	100	50-150	
Cadmium	mg/L	ND	10	10.5	105	50-150	
Chromium	mg/L	ND	10	10.1	101	50-150	
Lead	mg/L	ND	10	9.4	94	50-150	
Selenium	mg/L	ND	10	10.4	104	50-150	
Silver	mg/L	ND	5	4.9	98	50-150	

MATRIX SPIKE SAMPLE: 2311348		50224812006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	10.4	104	50-150	
Barium	mg/L	ND	10	10.4	100	50-150	
Cadmium	mg/L	ND	10	10.4	104	50-150	
Chromium	mg/L	ND	10	10.0	100	50-150	
Lead	mg/L	8.3	10	17.7	94	50-150	
Selenium	mg/L	ND	10	10.5	105	50-150	
Silver	mg/L	ND	5	4.9	98	50-150	

MATRIX SPIKE SAMPLE: 2311349		50224950001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	10.5	105	50-150	
Barium	mg/L	ND	10	10.9	100	50-150	
Cadmium	mg/L	ND	10	10.6	106	50-150	
Chromium	mg/L	ND	10	10.2	102	50-150	
Lead	mg/L	ND	10	9.6	95	50-150	
Selenium	mg/L	ND	10	10.6	106	50-150	
Silver	mg/L	ND	5	4.9	98	50-150	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

MATRIX SPIKE SAMPLE:		2311350					
Parameter	Units	50224959001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	10	10.5	105	50-150	
Barium	mg/L	ND	10	13.3	100	50-150	
Cadmium	mg/L	ND	10	10.6	106	50-150	
Chromium	mg/L	0.14	10	10.2	100	50-150	
Lead	mg/L	ND	10	9.4	94	50-150	
Selenium	mg/L	ND	10	10.7	107	50-150	
Silver	mg/L	ND	5	4.9	99	50-150	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

QC Batch: 500855 Analysis Method: EPA 5030/8260
 QC Batch Method: EPA 5030/8260 Analysis Description: 8260 MSV TCLP
 Associated Lab Samples: 50224684005

METHOD BLANK: 2311185 Matrix: Water
 Associated Lab Samples: 50224684005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	05/17/19 02:53	
1,2-Dichloroethane	ug/L	ND	50.0	05/17/19 02:53	
2-Butanone (MEK)	ug/L	ND	1000	05/17/19 02:53	
Benzene	ug/L	ND	50.0	05/17/19 02:53	
Carbon tetrachloride	ug/L	ND	50.0	05/17/19 02:53	
Chlorobenzene	ug/L	ND	50.0	05/17/19 02:53	
Chloroform	ug/L	ND	50.0	05/17/19 02:53	
Tetrachloroethene	ug/L	ND	50.0	05/17/19 02:53	
Trichloroethene	ug/L	ND	50.0	05/17/19 02:53	
Vinyl chloride	ug/L	ND	20.0	05/17/19 02:53	
4-Bromofluorobenzene (S)	%	94	85-114	05/17/19 02:53	
Dibromofluoromethane (S)	%	119	80-122	05/17/19 02:53	
Toluene-d8 (S)	%	92	85-114	05/17/19 02:53	

LABORATORY CONTROL SAMPLE: 2311186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	500	581	116	71-126	
1,2-Dichloroethane	ug/L	500	537	107	68-119	
2-Butanone (MEK)	ug/L	2500	2810	112	62-140	
Benzene	ug/L	500	509	102	78-117	
Carbon tetrachloride	ug/L	500	568	114	68-132	
Chlorobenzene	ug/L	500	495	99	79-113	
Chloroform	ug/L	500	519	104	73-118	
Tetrachloroethene	ug/L	500	517	103	76-124	
Trichloroethene	ug/L	500	518	104	76-120	
Vinyl chloride	ug/L	500	496	99	70-136	
4-Bromofluorobenzene (S)	%			104	85-114	
Dibromofluoromethane (S)	%			102	80-122	
Toluene-d8 (S)	%			102	85-114	

MATRIX SPIKE SAMPLE: 2311187

Parameter	Units	50224684005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	500	585	117	46-148	
1,2-Dichloroethane	ug/L	ND	500	578	116	44-138	
2-Butanone (MEK)	ug/L	ND	2500	2310	92	36-153	
Benzene	ug/L	ND	500	520	104	49-140	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

MATRIX SPIKE SAMPLE:		2311187					
Parameter	Units	50224684005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	ND	500	550	110	45-148	
Chlorobenzene	ug/L	ND	500	505	101	47-135	
Chloroform	ug/L	ND	500	548	110	49-136	
Tetrachloroethene	ug/L	ND	500	525	105	41-145	
Trichloroethene	ug/L	ND	500	511	102	43-147	
Vinyl chloride	ug/L	ND	500	474	95	49-153	
4-Bromofluorobenzene (S)	%				99	85-114	
Dibromofluoromethane (S)	%				103	80-122	
Toluene-d8 (S)	%				103	85-114	

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224684

QC Batch: 501050 Analysis Method: EPA 5030/8260
QC Batch Method: EPA 5030/8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 50224684013

METHOD BLANK: 2312236 Matrix: Water
Associated Lab Samples: 50224684013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	05/17/19 15:21	
1,2-Dichloroethane	ug/L	ND	50.0	05/17/19 15:21	
2-Butanone (MEK)	ug/L	ND	1000	05/17/19 15:21	
Benzene	ug/L	ND	50.0	05/17/19 15:21	
Carbon tetrachloride	ug/L	ND	50.0	05/17/19 15:21	
Chlorobenzene	ug/L	ND	50.0	05/17/19 15:21	
Chloroform	ug/L	ND	50.0	05/17/19 15:21	
Tetrachloroethene	ug/L	ND	50.0	05/17/19 15:21	
Trichloroethene	ug/L	ND	50.0	05/17/19 15:21	
Vinyl chloride	ug/L	ND	20.0	05/17/19 15:21	
4-Bromofluorobenzene (S)	%	93	85-114	05/17/19 15:21	
Dibromofluoromethane (S)	%	114	80-122	05/17/19 15:21	
Toluene-d8 (S)	%	95	85-114	05/17/19 15:21	

LABORATORY CONTROL SAMPLE: 2312237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	500	624	125	71-126	
1,2-Dichloroethane	ug/L	500	555	111	68-119	
2-Butanone (MEK)	ug/L	2500	2530	101	62-140	
Benzene	ug/L	500	525	105	78-117	
Carbon tetrachloride	ug/L	500	595	119	68-132	
Chlorobenzene	ug/L	500	518	104	79-113	
Chloroform	ug/L	500	542	108	73-118	
Tetrachloroethene	ug/L	500	556	111	76-124	
Trichloroethene	ug/L	500	546	109	76-120	
Vinyl chloride	ug/L	500	510	102	70-136	
4-Bromofluorobenzene (S)	%			101	85-114	
Dibromofluoromethane (S)	%			101	80-122	
Toluene-d8 (S)	%			102	85-114	

MATRIX SPIKE SAMPLE: 2312238

Parameter	Units	50224009008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	<25.0	500	530	106	46-148	
1,2-Dichloroethane	ug/L	<25.0	500	564	113	44-138	
2-Butanone (MEK)	ug/L	<500	2500	2520	101	36-153	
Benzene	ug/L	<10.0	500	498	100	49-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224684

MATRIX SPIKE SAMPLE: 2312238		50224009008	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Carbon tetrachloride	ug/L	<25.0	500	579	116	45-148	
Chlorobenzene	ug/L	<25.0	500	509	102	47-135	
Chloroform	ug/L	<25.0	500	529	106	49-136	
Tetrachloroethene	ug/L	<25.0	500	520	104	41-145	
Trichloroethene	ug/L	<25.0	500	503	101	43-147	
Vinyl chloride	ug/L	<10.0	500	464	93	49-153	
4-Bromofluorobenzene (S)	%				106	85-114	
Dibromofluoromethane (S)	%				100	80-122	
Toluene-d8 (S)	%				102	85-114	

MATRIX SPIKE SAMPLE: 2312239		50224684013	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	500	560	112	46-148	
1,2-Dichloroethane	ug/L	ND	500	551	110	44-138	
2-Butanone (MEK)	ug/L	ND	2500	2450	98	36-153	
Benzene	ug/L	ND	500	518	104	49-140	
Carbon tetrachloride	ug/L	ND	500	592	118	45-148	
Chlorobenzene	ug/L	ND	500	519	104	47-135	
Chloroform	ug/L	ND	500	537	107	49-136	
Tetrachloroethene	ug/L	ND	500	530	106	41-145	
Trichloroethene	ug/L	ND	500	527	105	43-147	
Vinyl chloride	ug/L	ND	500	496	99	49-153	
4-Bromofluorobenzene (S)	%				103	85-114	
Dibromofluoromethane (S)	%				101	80-122	
Toluene-d8 (S)	%				102	85-114	

MATRIX SPIKE SAMPLE: 2312240		50224816001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1-Dichloroethene	ug/L	<25.0	500	544	109	46-148	
1,2-Dichloroethane	ug/L	<25.0	500	536	107	44-138	
2-Butanone (MEK)	ug/L	<500	2500	2300	92	36-153	
Benzene	ug/L	<10.0	500	497	99	49-140	
Carbon tetrachloride	ug/L	<25.0	500	537	107	45-148	
Chlorobenzene	ug/L	<25.0	500	504	101	47-135	
Chloroform	ug/L	<25.0	500	507	101	49-136	
Tetrachloroethene	ug/L	<25.0	500	505	101	41-145	
Trichloroethene	ug/L	<25.0	500	495	99	43-147	
Vinyl chloride	ug/L	<10.0	500	474	95	49-153	
4-Bromofluorobenzene (S)	%				106	85-114	
Dibromofluoromethane (S)	%				100	80-122	
Toluene-d8 (S)	%				102	85-114	

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224684

QC Batch: 500849 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50224684006, 50224684007, 50224684008, 50224684012

METHOD BLANK: 2311168 Matrix: Water
Associated Lab Samples: 50224684006, 50224684007, 50224684008, 50224684012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/17/19 02:34	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/17/19 02:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/17/19 02:34	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/17/19 02:34	
1,1-Dichloroethane	ug/L	ND	5.0	05/17/19 02:34	
1,1-Dichloroethene	ug/L	ND	5.0	05/17/19 02:34	
1,1-Dichloropropene	ug/L	ND	5.0	05/17/19 02:34	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/17/19 02:34	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/17/19 02:34	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/17/19 02:34	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/17/19 02:34	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/17/19 02:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/17/19 02:34	
1,2-Dichloroethane	ug/L	ND	5.0	05/17/19 02:34	
1,2-Dichloropropane	ug/L	ND	5.0	05/17/19 02:34	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/17/19 02:34	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/17/19 02:34	
1,3-Dichloropropane	ug/L	ND	5.0	05/17/19 02:34	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/17/19 02:34	
2,2-Dichloropropane	ug/L	ND	5.0	05/17/19 02:34	
2-Butanone (MEK)	ug/L	ND	25.0	05/17/19 02:34	
2-Chlorotoluene	ug/L	ND	5.0	05/17/19 02:34	
2-Hexanone	ug/L	ND	25.0	05/17/19 02:34	
4-Chlorotoluene	ug/L	ND	5.0	05/17/19 02:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/17/19 02:34	
Acetone	ug/L	ND	100	05/17/19 02:34	
Acrolein	ug/L	ND	50.0	05/17/19 02:34	
Acrylonitrile	ug/L	ND	100	05/17/19 02:34	
Benzene	ug/L	ND	5.0	05/17/19 02:34	
Bromobenzene	ug/L	ND	5.0	05/17/19 02:34	
Bromochloromethane	ug/L	ND	5.0	05/17/19 02:34	
Bromodichloromethane	ug/L	ND	5.0	05/17/19 02:34	
Bromoform	ug/L	ND	5.0	05/17/19 02:34	
Bromomethane	ug/L	ND	5.0	05/17/19 02:34	
Carbon disulfide	ug/L	ND	10.0	05/17/19 02:34	
Carbon tetrachloride	ug/L	ND	5.0	05/17/19 02:34	
Chlorobenzene	ug/L	ND	5.0	05/17/19 02:34	
Chloroethane	ug/L	ND	5.0	05/17/19 02:34	
Chloroform	ug/L	ND	5.0	05/17/19 02:34	
Chloromethane	ug/L	ND	5.0	05/17/19 02:34	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/17/19 02:34	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

METHOD BLANK: 2311168

Matrix: Water

Associated Lab Samples: 50224684006, 50224684007, 50224684008, 50224684012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/17/19 02:34	
Dibromochloromethane	ug/L	ND	5.0	05/17/19 02:34	
Dibromomethane	ug/L	ND	5.0	05/17/19 02:34	
Dichlorodifluoromethane	ug/L	ND	5.0	05/17/19 02:34	
Ethyl methacrylate	ug/L	ND	100	05/17/19 02:34	
Ethylbenzene	ug/L	ND	5.0	05/17/19 02:34	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/17/19 02:34	
Iodomethane	ug/L	ND	10.0	05/17/19 02:34	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/17/19 02:34	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/17/19 02:34	
Methylene Chloride	ug/L	ND	5.0	05/17/19 02:34	
n-Butylbenzene	ug/L	ND	5.0	05/17/19 02:34	
n-Hexane	ug/L	ND	5.0	05/17/19 02:34	
n-Propylbenzene	ug/L	ND	5.0	05/17/19 02:34	
Naphthalene	ug/L	ND	5.0	05/17/19 02:34	
p-Isopropyltoluene	ug/L	ND	5.0	05/17/19 02:34	
sec-Butylbenzene	ug/L	ND	5.0	05/17/19 02:34	
Styrene	ug/L	ND	5.0	05/17/19 02:34	
tert-Butylbenzene	ug/L	ND	5.0	05/17/19 02:34	
Tetrachloroethene	ug/L	ND	5.0	05/17/19 02:34	
Toluene	ug/L	ND	5.0	05/17/19 02:34	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/17/19 02:34	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/17/19 02:34	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/17/19 02:34	
Trichloroethene	ug/L	ND	5.0	05/17/19 02:34	
Trichlorofluoromethane	ug/L	ND	5.0	05/17/19 02:34	
Vinyl acetate	ug/L	ND	50.0	05/17/19 02:34	
Vinyl chloride	ug/L	ND	2.0	05/17/19 02:34	
Xylene (Total)	ug/L	ND	10.0	05/17/19 02:34	
4-Bromofluorobenzene (S)	%	98	85-114	05/17/19 02:34	
Dibromofluoromethane (S)	%	114	80-122	05/17/19 02:34	
Toluene-d8 (S)	%	95	85-114	05/17/19 02:34	

LABORATORY CONTROL SAMPLE: 2311169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.1	102	78-120	
1,1,1-Trichloroethane	ug/L	50	55.8	112	72-127	
1,1,2,2-Tetrachloroethane	ug/L	50	43.3	87	70-124	
1,1,2-Trichloroethane	ug/L	50	48.1	96	79-121	
1,1-Dichloroethane	ug/L	50	47.8	96	70-119	
1,1-Dichloroethene	ug/L	50	50.6	101	71-126	
1,1-Dichloropropene	ug/L	50	51.1	102	76-122	
1,2,3-Trichlorobenzene	ug/L	50	44.7	89	71-126	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

LABORATORY CONTROL SAMPLE: 2311169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	49.1	98	75-119	
1,2,4-Trichlorobenzene	ug/L	50	44.9	90	68-130	
1,2,4-Trimethylbenzene	ug/L	50	46.2	92	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	47.2	94	81-119	
1,2-Dichlorobenzene	ug/L	50	43.6	87	78-114	
1,2-Dichloroethane	ug/L	50	50.9	102	68-119	
1,2-Dichloropropane	ug/L	50	47.5	95	79-126	
1,3,5-Trimethylbenzene	ug/L	50	46.9	94	78-118	
1,3-Dichlorobenzene	ug/L	50	45.4	91	77-114	
1,3-Dichloropropane	ug/L	50	50.0	100	82-124	
1,4-Dichlorobenzene	ug/L	50	44.3	89	77-111	
2,2-Dichloropropane	ug/L	50	49.9	100	53-137	
2-Butanone (MEK)	ug/L	250	232	93	62-140	
2-Chlorotoluene	ug/L	50	46.8	94	76-120	
2-Hexanone	ug/L	250	245	98	62-143	
4-Chlorotoluene	ug/L	50	45.4	91	78-114	
4-Methyl-2-pentanone (MIBK)	ug/L	250	239	96	60-143	
Acetone	ug/L	250	223	89	44-156	
Acrolein	ug/L	1000	995	100	17-189	
Acrylonitrile	ug/L	200	181	91	58-139	
Benzene	ug/L	50	47.7	95	78-117	
Bromobenzene	ug/L	50	46.6	93	76-114	
Bromochloromethane	ug/L	50	45.3	91	70-122	
Bromodichloromethane	ug/L	50	49.9	100	72-121	
Bromoform	ug/L	50	48.2	96	66-117	
Bromomethane	ug/L	50	67.2	134	20-176	
Carbon disulfide	ug/L	50	47.2	94	65-124	
Carbon tetrachloride	ug/L	50	55.5	111	68-132	
Chlorobenzene	ug/L	50	46.6	93	79-113	
Chloroethane	ug/L	50	44.8	90	62-140	
Chloroform	ug/L	50	49.5	99	73-118	
Chloromethane	ug/L	50	43.2	86	36-132	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	74-122	
cis-1,3-Dichloropropene	ug/L	50	44.6	89	79-126	
Dibromochloromethane	ug/L	50	50.0	100	75-121	
Dibromomethane	ug/L	50	50.3	101	75-123	
Dichlorodifluoromethane	ug/L	50	59.8	120	27-172	
Ethyl methacrylate	ug/L	200	206	103	72-134	
Ethylbenzene	ug/L	50	48.5	97	80-118	
Hexachloro-1,3-butadiene	ug/L	50	49.0	98	71-141	
Iodomethane	ug/L	100	121	121	10-186	
Isopropylbenzene (Cumene)	ug/L	50	50.5	101	82-120	
Methyl-tert-butyl ether	ug/L	50	55.0	110	72-128	
Methylene Chloride	ug/L	50	47.5	95	70-121	
n-Butylbenzene	ug/L	50	44.8	90	76-123	
n-Hexane	ug/L	50	53.3	107	58-149	
n-Propylbenzene	ug/L	50	46.0	92	80-122	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

LABORATORY CONTROL SAMPLE: 2311169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	43.4	87	71-121	
p-Isopropyltoluene	ug/L	50	47.9	96	79-121	
sec-Butylbenzene	ug/L	50	47.7	95	78-124	
Styrene	ug/L	50	49.4	99	80-119	
tert-Butylbenzene	ug/L	50	36.9	74	62-102	
Tetrachloroethene	ug/L	50	49.1	98	76-124	
Toluene	ug/L	50	48.4	97	78-116	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	73-121	
trans-1,3-Dichloropropene	ug/L	50	44.0	88	73-126	
trans-1,4-Dichloro-2-butene	ug/L	200	168	84	42-138	
Trichloroethene	ug/L	50	49.2	98	76-120	
Trichlorofluoromethane	ug/L	50	57.5	115	60-138	
Vinyl acetate	ug/L	200	162	81	29-200	
Vinyl chloride	ug/L	50	48.7	97	70-136	
Xylene (Total)	ug/L	150	146	98	79-119	
4-Bromofluorobenzene (S)	%			101	85-114	
Dibromofluoromethane (S)	%			100	80-122	
Toluene-d8 (S)	%			100	85-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2311170 2311171

Parameter	Units	50224684007		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	58.8	53.5	118	107	44-142	9	20		
1,1,1-Trichloroethane	ug/L	ND	50	50	61.8	54.7	124	109	48-145	12	20		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50.1	49.3	100	99	44-139	2	20		
1,1,2-Trichloroethane	ug/L	ND	50	50	56.7	51.7	113	103	49-140	9	20		
1,1-Dichloroethane	ug/L	ND	50	50	53.4	46.9	107	94	38-142	13	20		
1,1-Dichloroethene	ug/L	ND	50	50	55.7	50.0	111	100	46-148	11	20		
1,1-Dichloropropene	ug/L	ND	50	50	56.0	49.7	112	99	47-142	12	20		
1,2,3-Trichlorobenzene	ug/L	ND	50	50	49.4	47.7	99	95	34-139	3	20		
1,2,3-Trichloropropane	ug/L	ND	50	50	56.0	56.1	112	112	44-140	0	20		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	48.1	46.7	96	93	31-142	3	20		
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.5	47.8	101	96	39-140	6	20		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	54.1	51.1	108	102	47-143	6	20		
1,2-Dichlorobenzene	ug/L	ND	50	50	49.9	46.7	100	93	40-135	7	20		
1,2-Dichloroethane	ug/L	ND	50	50	59.7	54.3	119	109	44-138	10	20		
1,2-Dichloropropane	ug/L	ND	50	50	52.9	48.1	106	96	53-142	10	20		
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50.5	47.5	101	95	36-142	6	20		
1,3-Dichlorobenzene	ug/L	ND	50	50	49.4	47.0	99	94	37-136	5	20		
1,3-Dichloropropane	ug/L	ND	50	50	57.8	53.2	116	106	47-145	8	20		
1,4-Dichlorobenzene	ug/L	ND	50	50	47.6	45.6	95	91	38-132	4	20		
2,2-Dichloropropane	ug/L	ND	50	50	57.0	49.6	114	99	19-147	14	20		
2-Butanone (MEK)	ug/L	ND	250	250	268	259	107	104	36-153	3	20		
2-Chlorotoluene	ug/L	ND	50	50	51.1	47.6	102	95	37-143	7	20		

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2311170												2311171											
Parameter	Units	50224684007		MS	MSD	MS		MSD		% Rec		Max											
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual										
2-Hexanone	ug/L	ND	250	250	281	278	113	111	38-149	1	20												
4-Chlorotoluene	ug/L	ND	50	50	50.1	46.6	100	93	38-137	7	20												
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	274	265	110	106	43-145	3	20												
Acetone	ug/L	ND	250	250	251	241	100	97	21-161	4	20												
Acrolein	ug/L	ND	1000	1000	846	813	85	81	17-153	4	20												
Acrylonitrile	ug/L	ND	200	200	205	195	103	97	40-141	5	20												
Benzene	ug/L	ND	50	50	53.7	48.0	107	96	49-140	11	20												
Bromobenzene	ug/L	ND	50	50	52.7	48.4	105	97	39-137	9	20												
Bromochloromethane	ug/L	ND	50	50	53.5	47.1	107	94	50-132	13	20												
Bromodichloromethane	ug/L	ND	50	50	56.1	50.6	112	101	42-139	10	20												
Bromoform	ug/L	ND	50	50	55.4	53.7	111	107	29-135	3	20												
Bromomethane	ug/L	ND	50	50	67.4	62.3	135	125	10-162	8	20												
Carbon disulfide	ug/L	ND	50	50	50.7	45.7	101	91	33-144	10	20												
Carbon tetrachloride	ug/L	ND	50	50	61.6	54.7	123	109	45-148	12	20												
Chlorobenzene	ug/L	ND	50	50	51.8	47.0	104	94	47-135	10	20												
Chloroethane	ug/L	ND	50	50	45.8	42.6	92	85	41-149	7	20												
Chloroform	ug/L	ND	50	50	54.5	49.3	109	99	49-136	10	20												
Chloromethane	ug/L	ND	50	50	43.9	40.0	88	80	17-138	9	20												
cis-1,2-Dichloroethene	ug/L	ND	50	50	53.2	47.4	106	95	46-143	12	20												
cis-1,3-Dichloropropene	ug/L	ND	50	50	49.7	45.2	99	90	44-142	10	20												
Dibromochloromethane	ug/L	ND	50	50	59.2	54.5	118	109	41-141	8	20												
Dibromomethane	ug/L	ND	50	50	57.6	53.1	115	106	46-140	8	20												
Dichlorodifluoromethane	ug/L	ND	50	50	60.1	53.8	120	108	10-193	11	20												
Ethyl methacrylate	ug/L	ND	200	200	237	222	118	111	45-145	6	20												
Ethylbenzene	ug/L	ND	50	50	53.4	48.4	107	97	44-145	10	20												
Hexachloro-1,3-butadiene	ug/L	ND	50	50	53.6	48.9	107	98	27-158	9	20												
Iodomethane	ug/L	ND	100	100	130	117	130	117	10-172	11	20												
Isopropylbenzene (Cumene)	ug/L	ND	50	50	54.8	49.6	110	99	43-148	10	20												
Methyl-tert-butyl ether	ug/L	ND	50	50	62.9	60.2	126	120	38-158	4	20												
Methylene Chloride	ug/L	ND	50	50	52.8	46.8	106	94	33-140	12	20												
n-Butylbenzene	ug/L	ND	50	50	46.3	43.6	93	87	35-142	6	20												
n-Hexane	ug/L	ND	50	50	56.7	51.7	113	103	32-159	9	20												
n-Propylbenzene	ug/L	ND	50	50	48.7	45.4	97	91	37-145	7	20												
Naphthalene	ug/L	ND	50	50	47.9	49.1	96	98	40-137	2	20												
p-Isopropyltoluene	ug/L	ND	50	50	50.8	47.5	102	95	37-143	7	20												
sec-Butylbenzene	ug/L	ND	50	50	51.9	47.4	104	95	40-144	9	20												
Styrene	ug/L	ND	50	50	54.8	50.1	110	100	37-143	9	20												
tert-Butylbenzene	ug/L	ND	50	50	40.5	37.3	81	75	35-114	8	20												
Tetrachloroethene	ug/L	ND	50	50	54.3	48.0	109	96	41-145	12	20												
Toluene	ug/L	ND	50	50	53.7	48.5	107	97	48-139	10	20												
trans-1,2-Dichloroethene	ug/L	ND	50	50	54.3	48.9	109	98	46-140	11	20												
trans-1,3-Dichloropropene	ug/L	ND	50	50	49.7	46.1	99	92	37-141	7	20												
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	194	182	97	91	10-166	6	20												
Trichloroethene	ug/L	ND	50	50	54.0	49.1	108	98	43-147	9	20												

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

Parameter	Units	2311170		2311171		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224684007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Trichlorofluoromethane	ug/L	ND	50	50	61.2	55.1	122	110	39-154	11	20		
Vinyl acetate	ug/L	ND	200	200	154	145	77	72	10-181	7	20		
Vinyl chloride	ug/L	ND	50	50	51.2	45.9	102	92	49-153	11	20		
Xylene (Total)	ug/L	ND	150	150	164	148	110	99	44-147	11	20		
4-Bromofluorobenzene (S)	%						104	102	85-114				
Dibromofluoromethane (S)	%						101	98	80-122				
Toluene-d8 (S)	%						101	99	85-114				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224684

QC Batch: 501051 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50224684009, 50224684010, 50224684011

METHOD BLANK: 2312241 Matrix: Water
Associated Lab Samples: 50224684009, 50224684010, 50224684011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/17/19 15:21	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/17/19 15:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/17/19 15:21	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/17/19 15:21	
1,1-Dichloroethane	ug/L	ND	5.0	05/17/19 15:21	
1,1-Dichloroethene	ug/L	ND	5.0	05/17/19 15:21	
1,1-Dichloropropene	ug/L	ND	5.0	05/17/19 15:21	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/17/19 15:21	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/17/19 15:21	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/17/19 15:21	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/17/19 15:21	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/17/19 15:21	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/17/19 15:21	
1,2-Dichloroethane	ug/L	ND	5.0	05/17/19 15:21	
1,2-Dichloropropane	ug/L	ND	5.0	05/17/19 15:21	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/17/19 15:21	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/17/19 15:21	
1,3-Dichloropropane	ug/L	ND	5.0	05/17/19 15:21	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/17/19 15:21	
2,2-Dichloropropane	ug/L	ND	5.0	05/17/19 15:21	
2-Butanone (MEK)	ug/L	ND	25.0	05/17/19 15:21	
2-Chlorotoluene	ug/L	ND	5.0	05/17/19 15:21	
2-Hexanone	ug/L	ND	25.0	05/17/19 15:21	
4-Chlorotoluene	ug/L	ND	5.0	05/17/19 15:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/17/19 15:21	
Acetone	ug/L	ND	100	05/17/19 15:21	
Acrolein	ug/L	ND	50.0	05/17/19 15:21	
Acrylonitrile	ug/L	ND	100	05/17/19 15:21	
Benzene	ug/L	ND	5.0	05/17/19 15:21	
Bromobenzene	ug/L	ND	5.0	05/17/19 15:21	
Bromochloromethane	ug/L	ND	5.0	05/17/19 15:21	
Bromodichloromethane	ug/L	ND	5.0	05/17/19 15:21	
Bromoform	ug/L	ND	5.0	05/17/19 15:21	
Bromomethane	ug/L	ND	5.0	05/17/19 15:21	
Carbon disulfide	ug/L	ND	10.0	05/17/19 15:21	
Carbon tetrachloride	ug/L	ND	5.0	05/17/19 15:21	
Chlorobenzene	ug/L	ND	5.0	05/17/19 15:21	
Chloroethane	ug/L	ND	5.0	05/17/19 15:21	
Chloroform	ug/L	ND	5.0	05/17/19 15:21	
Chloromethane	ug/L	ND	5.0	05/17/19 15:21	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/17/19 15:21	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

METHOD BLANK: 2312241

Matrix: Water

Associated Lab Samples: 50224684009, 50224684010, 50224684011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/17/19 15:21	
Dibromochloromethane	ug/L	ND	5.0	05/17/19 15:21	
Dibromomethane	ug/L	ND	5.0	05/17/19 15:21	
Dichlorodifluoromethane	ug/L	ND	5.0	05/17/19 15:21	
Ethyl methacrylate	ug/L	ND	100	05/17/19 15:21	
Ethylbenzene	ug/L	ND	5.0	05/17/19 15:21	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/17/19 15:21	
Iodomethane	ug/L	ND	10.0	05/17/19 15:21	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/17/19 15:21	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/17/19 15:21	
Methylene Chloride	ug/L	ND	5.0	05/17/19 15:21	
n-Butylbenzene	ug/L	ND	5.0	05/17/19 15:21	
n-Hexane	ug/L	ND	5.0	05/17/19 15:21	
n-Propylbenzene	ug/L	ND	5.0	05/17/19 15:21	
Naphthalene	ug/L	ND	5.0	05/17/19 15:21	
p-Isopropyltoluene	ug/L	ND	5.0	05/17/19 15:21	
sec-Butylbenzene	ug/L	ND	5.0	05/17/19 15:21	
Styrene	ug/L	ND	5.0	05/17/19 15:21	
tert-Butylbenzene	ug/L	ND	5.0	05/17/19 15:21	
Tetrachloroethene	ug/L	ND	5.0	05/17/19 15:21	
Toluene	ug/L	ND	5.0	05/17/19 15:21	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/17/19 15:21	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/17/19 15:21	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/17/19 15:21	
Trichloroethene	ug/L	ND	5.0	05/17/19 15:21	
Trichlorofluoromethane	ug/L	ND	5.0	05/17/19 15:21	
Vinyl acetate	ug/L	ND	50.0	05/17/19 15:21	
Vinyl chloride	ug/L	ND	2.0	05/17/19 15:21	
Xylene (Total)	ug/L	ND	10.0	05/17/19 15:21	
4-Bromofluorobenzene (S)	%	93	85-114	05/17/19 15:21	
Dibromofluoromethane (S)	%	114	80-122	05/17/19 15:21	
Toluene-d8 (S)	%	95	85-114	05/17/19 15:21	

LABORATORY CONTROL SAMPLE: 2312242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.8	110	78-120	
1,1,1-Trichloroethane	ug/L	50	60.0	120	72-127	
1,1,2,2-Tetrachloroethane	ug/L	50	44.8	90	70-124	
1,1,2-Trichloroethane	ug/L	50	50.6	101	79-121	
1,1-Dichloroethane	ug/L	50	52.2	104	70-119	
1,1-Dichloroethene	ug/L	50	62.4	125	71-126	
1,1-Dichloropropene	ug/L	50	56.5	113	76-122	
1,2,3-Trichlorobenzene	ug/L	50	53.2	106	71-126	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

LABORATORY CONTROL SAMPLE: 2312242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	50.9	102	75-119	
1,2,4-Trichlorobenzene	ug/L	50	57.0	114	68-130	
1,2,4-Trimethylbenzene	ug/L	50	54.3	109	79-117	
1,2-Dibromoethane (EDB)	ug/L	50	48.7	97	81-119	
1,2-Dichlorobenzene	ug/L	50	51.7	103	78-114	
1,2-Dichloroethane	ug/L	50	55.5	111	68-119	
1,2-Dichloropropane	ug/L	50	49.0	98	79-126	
1,3,5-Trimethylbenzene	ug/L	50	53.8	108	78-118	
1,3-Dichlorobenzene	ug/L	50	53.8	108	77-114	
1,3-Dichloropropane	ug/L	50	49.3	99	82-124	
1,4-Dichlorobenzene	ug/L	50	51.8	104	77-111	
2,2-Dichloropropane	ug/L	50	52.8	106	53-137	
2-Butanone (MEK)	ug/L	250	253	101	62-140	
2-Chlorotoluene	ug/L	50	51.5	103	76-120	
2-Hexanone	ug/L	250	247	99	62-143	
4-Chlorotoluene	ug/L	50	51.8	104	78-114	
4-Methyl-2-pentanone (MIBK)	ug/L	250	242	97	60-143	
Acetone	ug/L	250	249	99	44-156	
Acrolein	ug/L	1000	1110	111	17-189	
Acrylonitrile	ug/L	200	187	94	58-139	
Benzene	ug/L	50	52.5	105	78-117	
Bromobenzene	ug/L	50	51.5	103	76-114	
Bromochloromethane	ug/L	50	43.5	87	70-122	
Bromodichloromethane	ug/L	50	52.1	104	72-121	
Bromoform	ug/L	50	47.8	96	66-117	
Bromomethane	ug/L	50	52.8	106	20-176	
Carbon disulfide	ug/L	50	50.4	101	65-124	
Carbon tetrachloride	ug/L	50	59.5	119	68-132	
Chlorobenzene	ug/L	50	51.8	104	79-113	
Chloroethane	ug/L	50	52.9	106	62-140	
Chloroform	ug/L	50	54.2	108	73-118	
Chloromethane	ug/L	50	41.4	83	36-132	
cis-1,2-Dichloroethene	ug/L	50	53.2	106	74-122	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	79-126	
Dibromochloromethane	ug/L	50	52.7	105	75-121	
Dibromomethane	ug/L	50	52.3	105	75-123	
Dichlorodifluoromethane	ug/L	50	54.2	108	27-172	
Ethyl methacrylate	ug/L	200	226	113	72-134	
Ethylbenzene	ug/L	50	53.2	106	80-118	
Hexachloro-1,3-butadiene	ug/L	50	60.3	121	71-141	
Iodomethane	ug/L	100	119	119	10-186	
Isopropylbenzene (Cumene)	ug/L	50	56.1	112	82-120	
Methyl-tert-butyl ether	ug/L	50	39.4	79	72-128	
Methylene Chloride	ug/L	50	47.1	94	70-121	
n-Butylbenzene	ug/L	50	54.4	109	76-123	
n-Hexane	ug/L	50	55.3	111	58-149	
n-Propylbenzene	ug/L	50	53.2	106	80-122	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

LABORATORY CONTROL SAMPLE: 2312242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	55.9	112	71-121	
p-Isopropyltoluene	ug/L	50	53.4	107	79-121	
sec-Butylbenzene	ug/L	50	53.2	106	78-124	
Styrene	ug/L	50	54.3	109	80-119	
tert-Butylbenzene	ug/L	50	40.5	81	62-102	
Tetrachloroethene	ug/L	50	55.6	111	76-124	
Toluene	ug/L	50	53.9	108	78-116	
trans-1,2-Dichloroethene	ug/L	50	58.7	117	73-121	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	73-126	
trans-1,4-Dichloro-2-butene	ug/L	200	161	80	42-138	
Trichloroethene	ug/L	50	54.6	109	76-120	
Trichlorofluoromethane	ug/L	50	56.9	114	60-138	
Vinyl acetate	ug/L	200	142	71	29-200	
Vinyl chloride	ug/L	50	51.0	102	70-136	
Xylene (Total)	ug/L	150	164	109	79-119	
4-Bromofluorobenzene (S)	%			101	85-114	
Dibromofluoromethane (S)	%			101	80-122	
Toluene-d8 (S)	%			102	85-114	

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QUALITY CONTROL DATA

Project: IN001342.0001
Pace Project No.: 50224684

QC Batch: 500481 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50224684001, 50224684002, 50224684003

METHOD BLANK: 2309099 Matrix: Solid
Associated Lab Samples: 50224684001, 50224684002, 50224684003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/15/19 13:28	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/15/19 13:28	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/15/19 13:28	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/15/19 13:28	
1,1-Dichloroethane	ug/kg	ND	5.0	05/15/19 13:28	
1,1-Dichloroethene	ug/kg	ND	5.0	05/15/19 13:28	
1,1-Dichloropropene	ug/kg	ND	5.0	05/15/19 13:28	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/15/19 13:28	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/15/19 13:28	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/15/19 13:28	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/15/19 13:28	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/15/19 13:28	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/15/19 13:28	
1,2-Dichloroethane	ug/kg	ND	5.0	05/15/19 13:28	
1,2-Dichloropropane	ug/kg	ND	5.0	05/15/19 13:28	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/15/19 13:28	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/15/19 13:28	
1,3-Dichloropropane	ug/kg	ND	5.0	05/15/19 13:28	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/15/19 13:28	
2,2-Dichloropropane	ug/kg	ND	5.0	05/15/19 13:28	
2-Butanone (MEK)	ug/kg	ND	25.0	05/15/19 13:28	
2-Chlorotoluene	ug/kg	ND	5.0	05/15/19 13:28	
2-Hexanone	ug/kg	ND	100	05/15/19 13:28	
4-Chlorotoluene	ug/kg	ND	5.0	05/15/19 13:28	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/15/19 13:28	
Acetone	ug/kg	ND	100	05/15/19 13:28	
Acrolein	ug/kg	ND	100	05/15/19 13:28	
Acrylonitrile	ug/kg	ND	100	05/15/19 13:28	
Benzene	ug/kg	ND	5.0	05/15/19 13:28	
Bromobenzene	ug/kg	ND	5.0	05/15/19 13:28	
Bromochloromethane	ug/kg	ND	5.0	05/15/19 13:28	
Bromodichloromethane	ug/kg	ND	5.0	05/15/19 13:28	
Bromoform	ug/kg	ND	5.0	05/15/19 13:28	
Bromomethane	ug/kg	ND	5.0	05/15/19 13:28	
Carbon disulfide	ug/kg	ND	10.0	05/15/19 13:28	
Carbon tetrachloride	ug/kg	ND	5.0	05/15/19 13:28	
Chlorobenzene	ug/kg	ND	5.0	05/15/19 13:28	
Chloroethane	ug/kg	ND	5.0	05/15/19 13:28	
Chloroform	ug/kg	ND	5.0	05/15/19 13:28	
Chloromethane	ug/kg	ND	5.0	05/15/19 13:28	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/15/19 13:28	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

METHOD BLANK: 2309099 Matrix: Solid

Associated Lab Samples: 50224684001, 50224684002, 50224684003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/15/19 13:28	
Dibromochloromethane	ug/kg	ND	5.0	05/15/19 13:28	
Dibromomethane	ug/kg	ND	5.0	05/15/19 13:28	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/15/19 13:28	
Ethyl methacrylate	ug/kg	ND	100	05/15/19 13:28	
Ethylbenzene	ug/kg	ND	5.0	05/15/19 13:28	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/15/19 13:28	
Iodomethane	ug/kg	ND	100	05/15/19 13:28	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/15/19 13:28	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/15/19 13:28	
Methylene Chloride	ug/kg	ND	20.0	05/15/19 13:28	
n-Butylbenzene	ug/kg	ND	5.0	05/15/19 13:28	
n-Hexane	ug/kg	ND	5.0	05/15/19 13:28	
n-Propylbenzene	ug/kg	ND	5.0	05/15/19 13:28	
Naphthalene	ug/kg	ND	5.0	05/15/19 13:28	
p-Isopropyltoluene	ug/kg	ND	5.0	05/15/19 13:28	
sec-Butylbenzene	ug/kg	ND	5.0	05/15/19 13:28	
Styrene	ug/kg	ND	5.0	05/15/19 13:28	
tert-Butylbenzene	ug/kg	ND	5.0	05/15/19 13:28	
Tetrachloroethene	ug/kg	ND	5.0	05/15/19 13:28	
Toluene	ug/kg	ND	5.0	05/15/19 13:28	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/15/19 13:28	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/15/19 13:28	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/15/19 13:28	
Trichloroethene	ug/kg	ND	5.0	05/15/19 13:28	
Trichlorofluoromethane	ug/kg	ND	5.0	05/15/19 13:28	
Vinyl acetate	ug/kg	ND	100	05/15/19 13:28	
Vinyl chloride	ug/kg	ND	5.0	05/15/19 13:28	
Xylene (Total)	ug/kg	ND	10.0	05/15/19 13:28	
4-Bromofluorobenzene (S)	%	94	65-119	05/15/19 13:28	
Dibromofluoromethane (S)	%	98	77-131	05/15/19 13:28	
Toluene-d8 (S)	%	95	77-127	05/15/19 13:28	

LABORATORY CONTROL SAMPLE: 2309100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	53.6	107	81-122	
1,1,1-Trichloroethane	ug/kg	50	49.6	99	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.0	92	70-124	
1,1,2-Trichloroethane	ug/kg	50	51.7	103	77-122	
1,1-Dichloroethane	ug/kg	50	48.1	96	69-116	
1,1-Dichloroethene	ug/kg	50	43.9	88	70-127	
1,1-Dichloropropene	ug/kg	50	44.9	90	72-122	
1,2,3-Trichlorobenzene	ug/kg	50	48.8	98	56-118	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

LABORATORY CONTROL SAMPLE: 2309100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	47.5	95	71-124	
1,2,4-Trichlorobenzene	ug/kg	50	49.3	99	50-123	
1,2,4-Trimethylbenzene	ug/kg	50	45.9	92	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	52.5	105	77-126	
1,2-Dichlorobenzene	ug/kg	50	46.3	93	73-115	
1,2-Dichloroethane	ug/kg	50	51.3	103	72-120	
1,2-Dichloropropane	ug/kg	50	49.3	99	77-125	
1,3,5-Trimethylbenzene	ug/kg	50	44.7	89	69-114	
1,3-Dichlorobenzene	ug/kg	50	46.6	93	66-115	
1,3-Dichloropropane	ug/kg	50	50.8	102	82-122	
1,4-Dichlorobenzene	ug/kg	50	46.2	92	66-114	
2,2-Dichloropropane	ug/kg	50	49.9	100	60-126	
2-Butanone (MEK)	ug/kg	250	302	121	57-145	
2-Chlorotoluene	ug/kg	50	44.7	89	71-117	
2-Hexanone	ug/kg	250	273	109	64-127	
4-Chlorotoluene	ug/kg	50	45.1	90	67-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	246	98	60-123	
Acetone	ug/kg	250	427	171	33-174	
Acrolein	ug/kg	1000	1320	132	11-200	
Acrylonitrile	ug/kg	200	202	101	64-123	
Benzene	ug/kg	50	45.4	91	74-119	
Bromobenzene	ug/kg	50	49.7	99	73-114	
Bromochloromethane	ug/kg	50	48.9	98	70-118	
Bromodichloromethane	ug/kg	50	49.8	100	73-120	
Bromoform	ug/kg	50	48.5	97	65-118	
Bromomethane	ug/kg	50	45.7	91	37-160	
Carbon disulfide	ug/kg	50	45.1	90	65-123	
Carbon tetrachloride	ug/kg	50	49.1	98	71-125	
Chlorobenzene	ug/kg	50	48.3	97	76-113	
Chloroethane	ug/kg	50	49.7	99	59-148	
Chloroform	ug/kg	50	47.2	94	71-117	
Chloromethane	ug/kg	50	38.9	78	49-112	
cis-1,2-Dichloroethene	ug/kg	50	46.5	93	70-122	
cis-1,3-Dichloropropene	ug/kg	50	49.0	98	75-120	
Dibromochloromethane	ug/kg	50	52.6	105	78-121	
Dibromomethane	ug/kg	50	54.4	109	75-125	
Dichlorodifluoromethane	ug/kg	50	43.4	87	34-163	
Ethyl methacrylate	ug/kg	200	220	110	63-132	
Ethylbenzene	ug/kg	50	47.3	95	73-118	
Hexachloro-1,3-butadiene	ug/kg	50	49.4	99	61-121	
Iodomethane	ug/kg	100	120	120	71-143	
Isopropylbenzene (Cumene)	ug/kg	50	48.0	96	74-121	
Methyl-tert-butyl ether	ug/kg	50	52.0	104	74-131	
Methylene Chloride	ug/kg	50	47.6	95	67-128	
n-Butylbenzene	ug/kg	50	43.4	87	61-116	
n-Hexane	ug/kg	50	40.8	82	59-119	
n-Propylbenzene	ug/kg	50	42.9	86	70-115	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

LABORATORY CONTROL SAMPLE: 2309100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	47.3	95	63-123	
p-Isopropyltoluene	ug/kg	50	46.1	92	68-117	
sec-Butylbenzene	ug/kg	50	45.3	91	72-117	
Styrene	ug/kg	50	48.6	97	75-120	
tert-Butylbenzene	ug/kg	50	41.0	82	55-100	
Tetrachloroethene	ug/kg	50	44.2	88	70-116	
Toluene	ug/kg	50	41.9	84	72-112	
trans-1,2-Dichloroethene	ug/kg	50	47.1	94	70-120	
trans-1,3-Dichloropropene	ug/kg	50	49.5	99	67-119	
trans-1,4-Dichloro-2-butene	ug/kg	200	224	112	57-124	
Trichloroethene	ug/kg	50	45.8	92	74-120	
Trichlorofluoromethane	ug/kg	50	42.9	86	59-139	
Vinyl acetate	ug/kg	200	165	83	70-134	
Vinyl chloride	ug/kg	50	42.7	85	58-133	
Xylene (Total)	ug/kg	150	142	95	71-119	
4-Bromofluorobenzene (S)	%			107	65-119	
Dibromofluoromethane (S)	%			100	77-131	
Toluene-d8 (S)	%			97	77-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2309101 2309102

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		50224534004	Result	Spike Conc.	Spike Conc.							
1,1,1,2-Tetrachloroethane	ug/kg	ND	53.9	54.1	30.8	29.4	57	54	32-149	5	20	
1,1,1-Trichloroethane	ug/kg	ND	53.9	54.1	46.3	42.2	86	78	48-141	9	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	53.9	54.1	35.7	35.1	66	65	14-173	2	20	
1,1,2-Trichloroethane	ug/kg	ND	53.9	54.1	42.9	41.3	80	76	34-157	4	20	
1,1-Dichloroethane	ug/kg	ND	53.9	54.1	49.2	44.6	91	83	41-134	10	20	
1,1-Dichloroethene	ug/kg	ND	53.9	54.1	47.5	43.2	88	80	43-151	9	20	
1,1-Dichloropropene	ug/kg	ND	53.9	54.1	32.1	28.7	60	53	39-145	11	20	
1,2,3-Trichlorobenzene	ug/kg	ND	53.9	54.1	8.7	8.4	16	15	10-121	4	20	
1,2,3-Trichloropropane	ug/kg	ND	53.9	54.1	40.5	40.5	75	75	32-167	0	20	
1,2,4-Trichlorobenzene	ug/kg	ND	53.9	54.1	8.5	7.3	16	13	10-116	16	20	
1,2,4-Trimethylbenzene	ug/kg	ND	53.9	54.1	9.3	7.1	17	13	10-162	26	20	R1
1,2-Dibromoethane (EDB)	ug/kg	ND	53.9	54.1	41.2	40.8	76	76	39-147	1	20	
1,2-Dichlorobenzene	ug/kg	ND	53.9	54.1	11.7	10.3	22	19	10-139	12	20	
1,2-Dichloroethane	ug/kg	ND	53.9	54.1	48.8	46.2	91	85	45-135	5	20	
1,2-Dichloropropane	ug/kg	ND	53.9	54.1	44.1	40.8	82	76	41-147	8	20	
1,3,5-Trimethylbenzene	ug/kg	ND	53.9	54.1	9.2	7.0	17	13	10-171	27	20	R1
1,3-Dichlorobenzene	ug/kg	ND	53.9	54.1	10.5	8.3	19	15	10-143	23	20	R1
1,3-Dichloropropane	ug/kg	ND	53.9	54.1	41.6	40.7	77	75	42-148	2	20	
1,4-Dichlorobenzene	ug/kg	ND	53.9	54.1	10	8.2	19	15	10-138	19	20	
2,2-Dichloropropane	ug/kg	ND	53.9	54.1	45.2	41.3	84	76	37-142	9	20	
2-Butanone (MEK)	ug/kg	ND	269	270	291	324	108	120	18-193	11	20	
2-Chlorotoluene	ug/kg	ND	53.9	54.1	11.1	8.8	21	16	10-170	23	20	R1

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2309101												2309102											
Parameter	Units	50224534004		MS	MSD	MS	MSD	MS	MSD	% Rec	Max			Qual									
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
2-Hexanone	ug/kg	ND	269	270	249	265	92	98	29-165	6	20												
4-Chlorotoluene	ug/kg	ND	53.9	54.1	9.8	7.8	18	14	10-160	23	20	R1											
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	269	270	254	264	94	98	38-147	4	20												
Acetone	ug/kg	ND	269	270	462	539	171	199	10-200	15	20												
Acrolein	ug/kg	ND	1080	1080	1350	1330	125	123	10-200	1	20												
Acrylonitrile	ug/kg	ND	215	217	157	169	73	78	21-149	8	20												
Benzene	ug/kg	ND	53.9	54.1	36.9	33.8	68	63	38-144	9	20												
Bromobenzene	ug/kg	ND	53.9	54.1	15.6	13.9	29	26	16-131	11	20												
Bromochloromethane	ug/kg	ND	53.9	54.1	47.1	46.1	87	85	46-130	2	20												
Bromodichloromethane	ug/kg	ND	53.9	54.1	40.8	39.2	76	72	23-144	4	20												
Bromoform	ug/kg	ND	53.9	54.1	34.3	35.3	64	65	10-160	3	20												
Bromomethane	ug/kg	ND	53.9	54.1	53.9	51.6	100	95	24-158	4	20												
Carbon disulfide	ug/kg	ND	53.9	54.1	39.2	35.1	73	65	33-142	11	20												
Carbon tetrachloride	ug/kg	ND	53.9	54.1	40.6	37.3	75	69	40-142	9	20												
Chlorobenzene	ug/kg	ND	53.9	54.1	19.2	16.8	36	31	30-134	13	20												
Chloroethane	ug/kg	ND	53.9	54.1	55.8	51.6	104	96	33-174	8	20												
Chloroform	ug/kg	ND	53.9	54.1	44.1	41.3	82	76	40-139	6	20												
Chloromethane	ug/kg	ND	53.9	54.1	42.5	40.3	79	75	27-129	5	20												
cis-1,2-Dichloroethene	ug/kg	ND	53.9	54.1	42.8	39.2	80	73	43-136	9	20												
cis-1,3-Dichloropropene	ug/kg	ND	53.9	54.1	35.7	33.4	66	62	28-145	7	20												
Dibromochloromethane	ug/kg	ND	53.9	54.1	38.4	37.1	71	69	27-146	4	20												
Dibromomethane	ug/kg	ND	53.9	54.1	48.4	46.2	90	85	46-133	5	20												
Dichlorodifluoromethane	ug/kg	ND	53.9	54.1	54.4	50.6	101	94	19-185	7	20												
Ethyl methacrylate	ug/kg	ND	215	217	70.1J	62.4J	33	29	10-157		20												
Ethylbenzene	ug/kg	ND	53.9	54.1	14.8	12.1	27	22	23-146	20	20	M1											
Hexachloro-1,3-butadiene	ug/kg	ND	53.9	54.1	3.4J	2J	6	4	10-167		20	M1											
Iodomethane	ug/kg	ND	108	108	109	119	101	110	20-171	9	20												
Isopropylbenzene (Cumene)	ug/kg	ND	53.9	54.1	10.2	8.0	19	15	22-147	24	20	M1,R1											
Methyl-tert-butyl ether	ug/kg	ND	53.9	54.1	58.1	58.0	108	107	54-151	0	20												
Methylene Chloride	ug/kg	ND	53.9	54.1	48.2	44.6	90	82	35-148	8	20												
n-Butylbenzene	ug/kg	ND	53.9	54.1	3.8J	2.5J	7	5	10-170		20	M1											
n-Hexane	ug/kg	ND	53.9	54.1	41.6	37.7	77	70	24-157	10	20												
n-Propylbenzene	ug/kg	ND	53.9	54.1	7.2	5.3J	13	10	10-173		20												
Naphthalene	ug/kg	ND	53.9	54.1	13.2	14.6	24	27	10-129	10	20												
p-Isopropyltoluene	ug/kg	ND	53.9	54.1	5.3J	3.6J	10	7	10-179		20	M1											
sec-Butylbenzene	ug/kg	ND	53.9	54.1	5.8	4.1J	11	8	10-175		20	M1											
Styrene	ug/kg	ND	53.9	54.1	13.8	11.8	26	22	12-140	16	20												
tert-Butylbenzene	ug/kg	ND	53.9	54.1	7.4	5.8	14	11	10-150	25	20	R1											
Tetrachloroethene	ug/kg	ND	53.9	54.1	16.5	13.6	31	25	25-147	19	20												
Toluene	ug/kg	ND	53.9	54.1	23.4	20.5	44	38	31-144	13	20												
trans-1,2-Dichloroethene	ug/kg	ND	53.9	54.1	42.1	37.8	78	70	41-138	11	20												
trans-1,3-Dichloropropene	ug/kg	ND	53.9	54.1	33.2	31.8	62	59	27-131	4	20												
trans-1,4-Dichloro-2-butene	ug/kg	ND	215	217	117	120	54	56	10-143	3	20												
Trichloroethene	ug/kg	ND	53.9	54.1	29.2	26.4	54	49	22-167	10	20												

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

Parameter	Units	2309101		2309102		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224534004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Trichlorofluoromethane	ug/kg	ND	53.9	54.1	50.8	47.2	94	87	35-165	7	20		
Vinyl acetate	ug/kg	ND	215	217	ND	ND	0	0	10-131		20	M1	
Vinyl chloride	ug/kg	ND	53.9	54.1	48.5	45.5	90	84	40-150	6	20		
Xylene (Total)	ug/kg	ND	162	162	41.6	35.1	26	22	20-146	17	20		
4-Bromofluorobenzene (S)	%						91	96	65-119				
Dibromofluoromethane (S)	%						102	103	77-131				
Toluene-d8 (S)	%						98	97	77-127				

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

QC Batch: 500497

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 50224684004

METHOD BLANK: 2309223

Matrix: Solid

Associated Lab Samples: 50224684004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/16/19 03:50	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/16/19 03:50	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/16/19 03:50	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/16/19 03:50	
1,1-Dichloroethane	ug/kg	ND	5.0	05/16/19 03:50	
1,1-Dichloroethene	ug/kg	ND	5.0	05/16/19 03:50	
1,1-Dichloropropene	ug/kg	ND	5.0	05/16/19 03:50	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/16/19 03:50	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/16/19 03:50	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/16/19 03:50	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/16/19 03:50	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/16/19 03:50	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/16/19 03:50	
1,2-Dichloroethane	ug/kg	ND	5.0	05/16/19 03:50	
1,2-Dichloropropane	ug/kg	ND	5.0	05/16/19 03:50	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/16/19 03:50	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/16/19 03:50	
1,3-Dichloropropane	ug/kg	ND	5.0	05/16/19 03:50	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/16/19 03:50	
2,2-Dichloropropane	ug/kg	ND	5.0	05/16/19 03:50	
2-Butanone (MEK)	ug/kg	ND	25.0	05/16/19 03:50	
2-Chlorotoluene	ug/kg	ND	5.0	05/16/19 03:50	
2-Hexanone	ug/kg	ND	100	05/16/19 03:50	
4-Chlorotoluene	ug/kg	ND	5.0	05/16/19 03:50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/16/19 03:50	
Acetone	ug/kg	ND	100	05/16/19 03:50	
Acrolein	ug/kg	ND	100	05/16/19 03:50	
Acrylonitrile	ug/kg	ND	100	05/16/19 03:50	
Benzene	ug/kg	ND	5.0	05/16/19 03:50	
Bromobenzene	ug/kg	ND	5.0	05/16/19 03:50	
Bromochloromethane	ug/kg	ND	5.0	05/16/19 03:50	
Bromodichloromethane	ug/kg	ND	5.0	05/16/19 03:50	
Bromoform	ug/kg	ND	5.0	05/16/19 03:50	
Bromomethane	ug/kg	ND	5.0	05/16/19 03:50	
Carbon disulfide	ug/kg	ND	10.0	05/16/19 03:50	
Carbon tetrachloride	ug/kg	ND	5.0	05/16/19 03:50	
Chlorobenzene	ug/kg	ND	5.0	05/16/19 03:50	
Chloroethane	ug/kg	ND	5.0	05/16/19 03:50	
Chloroform	ug/kg	ND	5.0	05/16/19 03:50	
Chloromethane	ug/kg	ND	5.0	05/16/19 03:50	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/16/19 03:50	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

METHOD BLANK: 2309223

Matrix: Solid

Associated Lab Samples: 50224684004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/16/19 03:50	
Dibromochloromethane	ug/kg	ND	5.0	05/16/19 03:50	
Dibromomethane	ug/kg	ND	5.0	05/16/19 03:50	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/16/19 03:50	
Ethyl methacrylate	ug/kg	ND	100	05/16/19 03:50	
Ethylbenzene	ug/kg	ND	5.0	05/16/19 03:50	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/16/19 03:50	
Iodomethane	ug/kg	ND	100	05/16/19 03:50	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/16/19 03:50	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/16/19 03:50	
Methylene Chloride	ug/kg	ND	20.0	05/16/19 03:50	
n-Butylbenzene	ug/kg	ND	5.0	05/16/19 03:50	
n-Hexane	ug/kg	ND	5.0	05/16/19 03:50	
n-Propylbenzene	ug/kg	ND	5.0	05/16/19 03:50	
Naphthalene	ug/kg	ND	5.0	05/16/19 03:50	
p-Isopropyltoluene	ug/kg	ND	5.0	05/16/19 03:50	
sec-Butylbenzene	ug/kg	ND	5.0	05/16/19 03:50	
Styrene	ug/kg	ND	5.0	05/16/19 03:50	
tert-Butylbenzene	ug/kg	ND	5.0	05/16/19 03:50	
Tetrachloroethene	ug/kg	ND	5.0	05/16/19 03:50	
Toluene	ug/kg	ND	5.0	05/16/19 03:50	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/16/19 03:50	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/16/19 03:50	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/16/19 03:50	
Trichloroethene	ug/kg	ND	5.0	05/16/19 03:50	
Trichlorofluoromethane	ug/kg	ND	5.0	05/16/19 03:50	
Vinyl acetate	ug/kg	ND	100	05/16/19 03:50	
Vinyl chloride	ug/kg	ND	5.0	05/16/19 03:50	
Xylene (Total)	ug/kg	ND	10.0	05/16/19 03:50	
4-Bromofluorobenzene (S)	%	95	65-119	05/16/19 03:50	
Dibromofluoromethane (S)	%	92	77-131	05/16/19 03:50	
Toluene-d8 (S)	%	95	77-127	05/16/19 03:50	

LABORATORY CONTROL SAMPLE: 2309224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	52.2	104	81-122	
1,1,1-Trichloroethane	ug/kg	50	52.5	105	72-125	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.2	92	70-124	
1,1,2-Trichloroethane	ug/kg	50	48.2	96	77-122	
1,1-Dichloroethane	ug/kg	50	48.4	97	69-116	
1,1-Dichloroethene	ug/kg	50	45.7	91	70-127	
1,1-Dichloropropene	ug/kg	50	43.7	87	72-122	
1,2,3-Trichlorobenzene	ug/kg	50	38.8	78	56-118	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

LABORATORY CONTROL SAMPLE: 2309224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	47.3	95	71-124	
1,2,4-Trichlorobenzene	ug/kg	50	34.6	69	50-123	
1,2,4-Trimethylbenzene	ug/kg	50	41.7	83	69-117	
1,2-Dibromoethane (EDB)	ug/kg	50	50.0	100	77-126	
1,2-Dichlorobenzene	ug/kg	50	41.8	84	73-115	
1,2-Dichloroethane	ug/kg	50	50.8	102	72-120	
1,2-Dichloropropane	ug/kg	50	49.2	98	77-125	
1,3,5-Trimethylbenzene	ug/kg	50	42.6	85	69-114	
1,3-Dichlorobenzene	ug/kg	50	39.7	79	66-115	
1,3-Dichloropropane	ug/kg	50	48.7	97	82-122	
1,4-Dichlorobenzene	ug/kg	50	39.0	78	66-114	
2,2-Dichloropropane	ug/kg	50	48.0	96	60-126	
2-Butanone (MEK)	ug/kg	250	237	95	57-145	
2-Chlorotoluene	ug/kg	50	43.3	87	71-117	
2-Hexanone	ug/kg	250	227	91	64-127	
4-Chlorotoluene	ug/kg	50	40.5	81	67-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	225	90	60-123	
Acetone	ug/kg	250	251	100	33-174	
Acrolein	ug/kg	1000	1180	118	11-200	
Acrylonitrile	ug/kg	200	183	91	64-123	
Benzene	ug/kg	50	44.4	89	74-119	
Bromobenzene	ug/kg	50	44.5	89	73-114	
Bromochloromethane	ug/kg	50	47.0	94	70-118	
Bromodichloromethane	ug/kg	50	49.5	99	73-120	
Bromoform	ug/kg	50	50.5	101	65-118	
Bromomethane	ug/kg	50	48.0	96	37-160	
Carbon disulfide	ug/kg	50	43.7	87	65-123	
Carbon tetrachloride	ug/kg	50	50.1	100	71-125	
Chlorobenzene	ug/kg	50	44.1	88	76-113	
Chloroethane	ug/kg	50	47.7	95	59-148	
Chloroform	ug/kg	50	48.0	96	71-117	
Chloromethane	ug/kg	50	36.5	73	49-112	
cis-1,2-Dichloroethene	ug/kg	50	46.2	92	70-122	
cis-1,3-Dichloropropene	ug/kg	50	47.6	95	75-120	
Dibromochloromethane	ug/kg	50	51.6	103	78-121	
Dibromomethane	ug/kg	50	51.0	102	75-125	
Dichlorodifluoromethane	ug/kg	50	42.0	84	34-163	
Ethyl methacrylate	ug/kg	200	206	103	63-132	
Ethylbenzene	ug/kg	50	43.4	87	73-118	
Hexachloro-1,3-butadiene	ug/kg	50	41.6	83	61-121	
Iodomethane	ug/kg	100	119	119	71-143	
Isopropylbenzene (Cumene)	ug/kg	50	43.6	87	74-121	
Methyl-tert-butyl ether	ug/kg	50	50.7	101	74-131	
Methylene Chloride	ug/kg	50	45.8	92	67-128	
n-Butylbenzene	ug/kg	50	34.0	68	61-116	
n-Hexane	ug/kg	50	37.6	75	59-119	
n-Propylbenzene	ug/kg	50	40.5	81	70-115	

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

LABORATORY CONTROL SAMPLE: 2309224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	50	44.4	89	63-123	
p-Isopropyltoluene	ug/kg	50	40.6	81	68-117	
sec-Butylbenzene	ug/kg	50	43.0	86	72-117	
Styrene	ug/kg	50	42.5	85	75-120	
tert-Butylbenzene	ug/kg	50	41.4	83	55-100	
Tetrachloroethene	ug/kg	50	38.8	78	70-116	
Toluene	ug/kg	50	40.2	80	72-112	
trans-1,2-Dichloroethene	ug/kg	50	46.8	94	70-120	
trans-1,3-Dichloropropene	ug/kg	50	45.9	92	67-119	
trans-1,4-Dichloro-2-butene	ug/kg	200	176	88	57-124	
Trichloroethene	ug/kg	50	44.4	89	74-120	
Trichlorofluoromethane	ug/kg	50	42.7	85	59-139	
Vinyl acetate	ug/kg	200	152	76	70-134	
Vinyl chloride	ug/kg	50	41.4	83	58-133	
Xylene (Total)	ug/kg	150	128	85	71-119	
4-Bromofluorobenzene (S)	%			104	65-119	
Dibromofluoromethane (S)	%			103	77-131	
Toluene-d8 (S)	%			98	77-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2309225 2309226

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224816001	Result	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/kg	<0.00032	mg/kg	49.4	49.1	37.0	29.6	75	60	32-149	22	20	R1
1,1,1-Trichloroethane	ug/kg	0.00038J	mg/kg	49.4	49.1	51.5	48.5	104	98	48-141	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	<0.00027	mg/kg	49.4	49.1	43.3	32.5	88	66	14-173	28	20	R1
1,1,2-Trichloroethane	ug/kg	<0.00029	mg/kg	49.4	49.1	40.1	34.6	81	70	34-157	15	20	
1,1-Dichloroethane	ug/kg	<0.00026	mg/kg	49.4	49.1	47.5	44.4	96	90	41-134	7	20	
1,1-Dichloroethene	ug/kg	<0.00027	mg/kg	49.4	49.1	49.4	46.0	100	94	43-151	7	20	
1,1-Dichloropropene	ug/kg	<0.00028	mg/kg	49.4	49.1	37.4	33.8	76	69	39-145	10	20	
1,2,3-Trichlorobenzene	ug/kg	<0.00030	mg/kg	49.4	49.1	9.2	6.2	19	13	10-121	40	20	R1
1,2,3-Trichloropropane	ug/kg	<0.00049	mg/kg	49.4	49.1	48.1	38.0	97	77	32-167	23	20	R1
1,2,4-Trichlorobenzene	ug/kg	<0.00042	mg/kg	49.4	49.1	9.4	6.1	19	12	10-116	43	20	R1
1,2,4-Trimethylbenzene	ug/kg	<0.00028	mg/kg	49.4	49.1	19.5	15.4	40	31	10-162	24	20	R1
1,2-Dibromoethane (EDB)	ug/kg	<0.00029	mg/kg	49.4	49.1	39.3	32.1	80	65	39-147	20	20	
1,2-Dichlorobenzene	ug/kg	<0.00015	mg/kg	49.4	49.1	16.9	12.4	34	25	10-139	31	20	R1

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

Parameter	Units	50224816001		2309225		2309226		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,2-Dichloroethane	ug/kg	<0.00032 mg/kg	49.4	49.1	42.4	39.2	86	80	45-135	8	20			
1,2-Dichloropropane	ug/kg	<0.00053 mg/kg	49.4	49.1	40.2	35.7	81	73	41-147	12	20			
1,3,5-Trimethylbenzene	ug/kg	<0.00022 mg/kg	49.4	49.1	21.6	16.6	44	34	10-171	26	20	R1		
1,3-Dichlorobenzene	ug/kg	<0.00026 mg/kg	49.4	49.1	16.5	12.8	33	26	10-143	25	20	R1		
1,3-Dichloropropane	ug/kg	<0.00027 mg/kg	49.4	49.1	39.5	33.3	80	68	42-148	17	20			
1,4-Dichlorobenzene	ug/kg	<0.00026 mg/kg	49.4	49.1	14.9	12.2	30	25	10-138	20	20			
2,2-Dichloropropane	ug/kg	<0.00031 mg/kg	49.4	49.1	48.5	46.1	98	94	37-142	5	20			
2-Butanone (MEK)	ug/kg	<0.0048 mg/kg	247	246	248	227	100	93	18-193	9	20			
2-Chlorotoluene	ug/kg	<0.00020 mg/kg	49.4	49.1	22.9	18.4	46	38	10-170	22	20	R1		
2-Hexanone	ug/kg	<0.0024 mg/kg	247	246	220	184	89	75	29-165	18	20			
4-Chlorotoluene	ug/kg	<0.00022 mg/kg	49.4	49.1	18.4	15.5	37	32	10-160	17	20			
4-Methyl-2-pentanone (MIBK)	ug/kg	<0.0020 mg/kg	247	246	252	214	102	87	38-147	16	20			
Acetone	ug/kg	0.053J mg/kg	247	246	428	393	152	139	10-200	8	20			
Acrolein	ug/kg	<0.0099 mg/kg	988	983	1150	1050	116	106	10-200	10	20			
Acrylonitrile	ug/kg	<0.0013 mg/kg	198	197	156	154	79	78	21-149	1	20			
Benzene	ug/kg	<0.00027 mg/kg	49.4	49.1	37.8	34.5	77	70	38-144	9	20			
Bromobenzene	ug/kg	<0.00038 mg/kg	49.4	49.1	17.7	14.0	36	28	16-131	24	20	R1		
Bromochloromethane	ug/kg	<0.00036 mg/kg	49.4	49.1	43.6	41.8	88	85	46-130	4	20			
Bromodichloromethane	ug/kg	<0.00030 mg/kg	49.4	49.1	36.8	32.9	75	67	23-144	11	20			
Bromoform	ug/kg	<0.00031 mg/kg	49.4	49.1	41.8	32.1	85	65	10-160	26	20	R1		
Bromomethane	ug/kg	<0.00030 mg/kg	49.4	49.1	52.5	51.4	106	105	24-158	2	20			
Carbon disulfide	ug/kg	0.00052J mg/kg	49.4	49.1	43.4	40.2	87	81	33-142	8	20			
Carbon tetrachloride	ug/kg	<0.00034 mg/kg	49.4	49.1	45.1	42.4	91	86	40-142	6	20			
Chlorobenzene	ug/kg	<0.00023 mg/kg	49.4	49.1	24.7	20.3	50	41	30-134	20	20			
Chloroethane	ug/kg	<0.00030 mg/kg	49.4	49.1	53.1	53.2	108	108	33-174	0	20			
Chloroform	ug/kg	<0.00029 mg/kg	49.4	49.1	42.6	39.2	86	80	40-139	8	20			
Chloromethane	ug/kg	<0.00028 mg/kg	49.4	49.1	41.6	40.0	84	81	27-129	4	20			

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2309225												2309226	
Parameter	Units	50224816001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD	
cis-1,2-Dichloroethene	ug/kg	<0.00028 mg/kg	49.4	49.1	42.5	40.9	86	83	43-136	4	20		
cis-1,3-Dichloropropene	ug/kg	<0.00024 mg/kg	49.4	49.1	38.3	32.7	78	67	28-145	16	20		
Dibromochloromethane	ug/kg	<0.00025 mg/kg	49.4	49.1	37.5	29.7	76	61	27-146	23	20 R1		
Dibromomethane	ug/kg	<0.00030 mg/kg	49.4	49.1	42.9	38.0	87	77	46-133	12	20		
Dichlorodifluoromethane	ug/kg	<0.00053 mg/kg	49.4	49.1	50.8	51.8	103	105	19-185	2	20		
Ethyl methacrylate	ug/kg	<0.00037 mg/kg	198	197	74.8J	31.1J	38	16	10-157		20		
Ethylbenzene	ug/kg	<0.00031 mg/kg	49.4	49.1	23.6	19.1	48	39	23-146	21	20 R1		
Hexachloro-1,3-butadiene	ug/kg	<0.00029 mg/kg	49.4	49.1	11.7	9.1	24	19	10-167	25	20 R1		
Iodomethane	ug/kg	<0.00026 mg/kg	98.8	98.3	95.7J	118	97	120	20-171		20		
Isopropylbenzene (Cumene)	ug/kg	<0.00024 mg/kg	49.4	49.1	19.6	15.0	40	31	22-147	26	20 R1		
Methyl-tert-butyl ether	ug/kg	0.00053J mg/kg	49.4	49.1	52.9	49.3	106	99	54-151	7	20		
Methylene Chloride	ug/kg	<0.0010 mg/kg	49.4	49.1	43.3	41.3	88	84	35-148	5	20		
n-Butylbenzene	ug/kg	<0.00026 mg/kg	49.4	49.1	10.4	7.8	21	16	10-170	29	20 R1		
n-Hexane	ug/kg	<0.00034 mg/kg	49.4	49.1	45.8	41.7	93	85	24-157	9	20		
n-Propylbenzene	ug/kg	<0.00026 mg/kg	49.4	49.1	19.1	14.8	39	30	10-173	25	20 R1		
Naphthalene	ug/kg	0.0039J mg/kg	49.4	49.1	15.9	12.1	24	17	10-129	27	20 R1		
p-Isopropyltoluene	ug/kg	<0.00035 mg/kg	49.4	49.1	15.3	11.7	31	24	10-179	27	20 R1		
sec-Butylbenzene	ug/kg	<0.00035 mg/kg	49.4	49.1	18.5	13.9	38	28	10-175	28	20 R1		
Styrene	ug/kg	<0.00026 mg/kg	49.4	49.1	17.8	14.2	36	29	12-140	22	20 R1		
tert-Butylbenzene	ug/kg	<0.00031 mg/kg	49.4	49.1	22.4	17.5	45	36	10-150	25	20 R1		
Tetrachloroethene	ug/kg	0.0011J mg/kg	49.4	49.1	33.8	40.7	66	81	25-147	19	20		
Toluene	ug/kg	<0.00030 mg/kg	49.4	49.1	31.2	26.4	63	53	31-144	17	20		
trans-1,2-Dichloroethene	ug/kg	<0.00031 mg/kg	49.4	49.1	45.0	41.5	91	84	41-138	8	20		
trans-1,3-Dichloropropene	ug/kg	<0.00017 mg/kg	49.4	49.1	33.7	28.9	68	59	27-131	15	20		
trans-1,4-Dichloro-2-butene	ug/kg	<0.00034 mg/kg	198	197	93.8J	72.2J	48	37	10-143		20		
Trichloroethene	ug/kg	0.0011J mg/kg	49.4	49.1	37.8	47.4	74	94	22-167	23	20 R1		
Trichlorofluoromethane	ug/kg	<0.00032 mg/kg	49.4	49.1	50.2	48.0	102	98	35-165	4	20		

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

Parameter	Units	2309225		2309226		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50224816001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Vinyl acetate	ug/kg	<0.0013 mg/kg	198	197	ND	ND	0	0	10-131			20	M1
Vinyl chloride	ug/kg	<0.00035 mg/kg	49.4	49.1	46.5	47.3	94	96	40-150	2		20	
Xylene (Total)	ug/kg	<0.00056 mg/kg	148	148	65.2	51.7	44	35	20-146	23		20	RS
4-Bromofluorobenzene (S)	%						87	85	65-119				
Dibromofluoromethane (S)	%						104	97	77-131				
Toluene-d8 (S)	%						111	107	77-127				

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

QC Batch: 500928

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 TCLP MSSV

Associated Lab Samples: 50224684005, 50224684013

METHOD BLANK: 2311533

Matrix: Water

Associated Lab Samples: 50224684005, 50224684013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	10.0	05/20/19 07:35	
2,4,5-Trichlorophenol	ug/L	ND	50.0	05/20/19 07:35	
2,4,6-Trichlorophenol	ug/L	ND	10.0	05/20/19 07:35	
2,4-Dinitrotoluene	ug/L	ND	10.0	05/20/19 07:35	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/20/19 07:35	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	05/20/19 07:35	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	05/20/19 07:35	
Hexachlorobenzene	ug/L	ND	10.0	05/20/19 07:35	
Hexachloroethane	ug/L	ND	10.0	05/20/19 07:35	
Nitrobenzene	ug/L	ND	10.0	05/20/19 07:35	
Pentachlorophenol	ug/L	ND	50.0	05/20/19 07:35	
Pyridine	ug/L	ND	10.0	05/20/19 07:35	
2,4,6-Tribromophenol (S)	%	55	33-108	05/20/19 07:35	
2-Fluorobiphenyl (S)	%	62	19-93	05/20/19 07:35	
2-Fluorophenol (S)	%	29	10-59	05/20/19 07:35	
Nitrobenzene-d5 (S)	%	65	27-95	05/20/19 07:35	
p-Terphenyl-d14 (S)	%	91	11-147	05/20/19 07:35	
Phenol-d5 (S)	%	18	10-42	05/20/19 07:35	

LABORATORY CONTROL SAMPLE: 2311534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	100	35.0	35	10-83	
2,4,5-Trichlorophenol	ug/L	100	50.3	50	39-101	
2,4,6-Trichlorophenol	ug/L	100	45.1	45	39-109	
2,4-Dinitrotoluene	ug/L	100	58.7	59	39-111	
2-Methylphenol(o-Cresol)	ug/L	100	45.8	46	29-86	
3&4-Methylphenol(m&p Cresol)	ug/L	200	84.2	42	22-84	
Hexachloro-1,3-butadiene	ug/L	100	27.3	27	10-90	
Hexachlorobenzene	ug/L	100	42.1	42	31-117	
Hexachloroethane	ug/L	100	26.0	26	10-81	
Nitrobenzene	ug/L	100	52.7	53	40-96	
Pentachlorophenol	ug/L	100	53.0	53	33-121	
Pyridine	ug/L	100	19.9	20	10-52	
2,4,6-Tribromophenol (S)	%			55	33-108	
2-Fluorobiphenyl (S)	%			41	19-93	
2-Fluorophenol (S)	%			24	10-59	
Nitrobenzene-d5 (S)	%			52	27-95	
p-Terphenyl-d14 (S)	%			78	11-147	
Phenol-d5 (S)	%			15	10-42	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

MATRIX SPIKE SAMPLE:	2311535	50224106001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<0.050 mg/L	1000	615	61	13-72	
2,4,5-Trichlorophenol	ug/L	<0.050 mg/L	1000	969	97	36-101	
2,4,6-Trichlorophenol	ug/L	<0.050 mg/L	1000	908	91	30-106	
2,4-Dinitrotoluene	ug/L	<0.050 mg/L	1000	892	89	36-97	
2-Methylphenol(o-Cresol)	ug/L	<0.050 mg/L	1000	601	60	24-84	
3&4-Methylphenol(m&p Cresol)	ug/L	<0.10 mg/L	2000	1090	54	17-82	
Hexachloro-1,3-butadiene	ug/L	<0.050 mg/L	1000	517	52	10-82	
Hexachlorobenzene	ug/L	<0.050 mg/L	1000	504	50	20-99	
Hexachloroethane	ug/L	<0.050 mg/L	1000	508	51	10-73	
Nitrobenzene	ug/L	<0.050 mg/L	1000	687	69	32-92	
Pentachlorophenol	ug/L	<0.25 mg/L	1000	ND	19	27-122	M1
Pyridine	ug/L	<0.10 mg/L	1000	371	37	10-55	
2,4,6-Tribromophenol (S)	%				64	33-108	
2-Fluorobiphenyl (S)	%				85	19-93	
2-Fluorophenol (S)	%				33	10-59	
Nitrobenzene-d5 (S)	%				71	27-95	
p-Terphenyl-d14 (S)	%				88	11-147	
Phenol-d5 (S)	%				21	10-42	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

QC Batch: 500617

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50224684001, 50224684002, 50224684003, 50224684004

SAMPLE DUPLICATE: 2309926

Parameter	Units	50224795001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.2	10.1	21	5	R1

SAMPLE DUPLICATE: 2309927

Parameter	Units	50224816001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.2	19.8	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

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

QC Batch: 499888 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 50224684013

SAMPLE DUPLICATE: 2306624

Parameter	Units	50224270002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	0	2	H3

SAMPLE DUPLICATE: 2306625

Parameter	Units	50224256006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	1	2	H3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN001342.0001

Pace Project No.: 50224684

QC Batch: 499876 Analysis Method: EPA 9045

QC Batch Method: EPA 9045 Analysis Description: 9045 pH

Associated Lab Samples: 50224684005

SAMPLE DUPLICATE: 2306589

Parameter	Units	50224445001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	2	H3

SAMPLE DUPLICATE: 2306590

Parameter	Units	50224684005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.4	0	2	H3

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: IN001342.0001

Pace Project No.: 50224684

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

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

R1 RPD value was outside control limits.

RS The RPD value in one of the constituent analytes was outside the control limits.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IN001342.0001

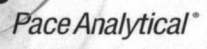
Pace Project No.: 50224684

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50224684005	WC SL (051019)	EPA 3010	500882	EPA 6010	501111
50224684013	WC WT (051019)	EPA 3010	500882	EPA 6010	501111
50224684005	WC SL (051019)	EPA 7470	500781	EPA 7470	500953
50224684013	WC WT (051019)	EPA 7470	500781	EPA 7470	500953
50224684005	WC SL (051019)	EPA 3510	500928	EPA 8270	501369
50224684013	WC WT (051019)	EPA 3510	500928	EPA 8270	501369
50224684005	WC SL (051019)	EPA 5030/8260	500855		
50224684013	WC WT (051019)	EPA 5030/8260	501050		
50224684006	TB-5 (051019)	EPA 8260	500849		
50224684007	SB-11 (21-17) GW	EPA 8260	500849		
50224684008	SB-11 (17-13) GW	EPA 8260	500849		
50224684009	SB-11 (13-9) GW	EPA 8260	501051		
50224684010	SB-12 (24-20) GW	EPA 8260	501051		
50224684011	SB-12 (17-13) GW	EPA 8260	501051		
50224684012	SB-12 (10-6) GW	EPA 8260	500849		
50224684001	SB-11 (2-0)	EPA 8260	500481		
50224684002	SB-11 (4-2)	EPA 8260	500481		
50224684003	SB-12 (2-0)	EPA 8260	500481		
50224684004	SB-12 (4-2)	EPA 8260	500497		
50224684001	SB-11 (2-0)	SM 2540G	500617		
50224684002	SB-11 (4-2)	SM 2540G	500617		
50224684003	SB-12 (2-0)	SM 2540G	500617		
50224684004	SB-12 (4-2)	SM 2540G	500617		
50224684005	WC SL (051019)	EPA 1010	500236		
50224684013	WC WT (051019)	EPA 1010	500236		
50224684013	WC WT (051019)	SM 4500-H+B	499888		
50224684005	WC SL (051019)	EPA 9045	499876		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document



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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50224684

ALL SHADED AREAS are for LAB USE ONLY

Company: Arcadis		Billing Information:	
Address: 150 W. Market St. Ste #28			
Report To: Randy Woodruff		Email To: randall.woodruff@arcadis.com	
Copy To: Jon Atkin		Site Collection Info/Address:	
Customer Project Name/Number: DN 001342.001		State: DN County/City: _____ Time Zone Collected: <input type="checkbox"/> PT <input type="checkbox"/> MT <input type="checkbox"/> CT <input checked="" type="checkbox"/> ET	
Phone:	Site/Facility ID #:	Compliance Monitoring?	
Email:		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Collected By (print): Brian Lesky	Purchase Order #: _____	DW PWS ID #: _____	
Collected By (signature):	Quote #: _____	DW Location Code: _____	
Sample Disposal:	Turnaround Date Required: 1 week	Immediately Packed on Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return	Rush: <input type="checkbox"/> Same Day <input type="checkbox"/> Next Day	Field Filtered (if applicable): <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Archive: _____	<input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day	Analysis: _____	
(Expedite Charges Apply)			

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:
VOLs 8260	Lab Sample Receipt Checklist:
VOLs 8035	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:

* 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)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
SB-4(2-0)	SL	G	5/10/19	0956				4
SB-11(4-2)	SL	G		1001				4
TB-S(CS1019)	DW	G		1050				3 X
SB-11(21-17)GW	GW	G		1058				9 X
SB-11(17-13)GW	GW	G		1118				3 X
SB-11(13-9)GW	GW	G		1143				3 X
SB-12(2-0)	SL	G		1320				4 X
SB-12(4-2)	SL	G		1325				4 X
SB-12(24-20)GW	GW	G		1338				3 X
SB-12(17-13)GW	GW	G		1353				3 X

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
	Packing Material Used:	Lab Tracking #: 2397285
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: 00 N NA
Therm ID#: E
Cooler 1 Temp Upon Receipt: 3.1 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 3.1 oC
Comments:

Relinquished by/Company: (Signature) Arcadis	Date/Time: 5/10/19 1635	Received by/Company: (Signature)	Date/Time: 5/10/19 1635
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:	
Non Conformance(s): YES / NO	Page: _____ of: _____

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Pace Analytical*

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

50224684

ALL SHADED AREAS are for LAB USE ONLY

Company: Arceadis Billing Information:

Address: 150 W. Market St., Ste. 728

Report To: Randy Woodruff Email To: randy.woodruff@arceadis.com

Copy To: Jon Akin Site Collection Info/Address:

Customer Project Name/Number: IN 001342, 0001 State: IN County/City: _____ Time Zone Collected: [] PT [] MT [] CT [] ET

Phone: _____ Site/Facility ID #: _____ Compliance Monitoring? [] Yes [] No

Collected By (print): Brin Cuskey Purchase Order #: _____ Quote #: 7-152 DW PWS ID #: _____ DW Location Code: _____

Collected By (signature): _____ Turnaround Date Required: 1 week Immediately Packed on Ice: [] Yes [] No

Sample Disposal: _____ Rush: [] Same Day [] Next Day Field Filtered (if applicable): [] Yes [] No

[] Archive: _____ [] 2 Day [] 3 Day [] 4 Day [] 5 Day Analysis: _____

[] Hold: _____ (Expedite Charges Apply)

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses	Lab Profile/Line:
			Date	Time	Date	Time				
S13-12(10-6)GW	GW	G	5/10/19	1408				3	VMS 4260 VMS 5055 TCLP VMS TCLP SVMS TCLP metals pH + Flashpoint	Lab Sample Receipt Checklist: Custody Seals Present/Intact <u>See Scan</u> 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: _____
WC WT(051019)	GW	Comp		1430				4		012
WC SL(051019)	SL	Comp		1449				5		013
										005

* 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 Remarks / Special Conditions / Possible Hazards:

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 #: 2397286

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Q N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: 3.1 oC

Cooler 1 Therm Corr. Factor: 0.0 oC

Cooler 1 Corrected Temp: 3.1 oC

Comments:

Relinquished by/Company: (Signature) [Signature] Arceadis Date/Time: 5/10/19 1635

Relinquished by/Company: (Signature) _____ Date/Time: _____

Relinquished by/Company: (Signature) _____ Date/Time: _____

Received by/Company: (Signature) [Signature] Date/Time: 5/10/19 1635

Received by/Company: (Signature) _____ Date/Time: _____

Received by/Company: (Signature) _____ Date/Time: _____

Table #: _____

Acctnum: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): _____

Page: _____ of: _____

SAMPLE CONDITION UPON RECEIPT FORM



Project #: 50224684

Date/Time and Initials of person examining contents: LWG 5/10/19 1650

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: 3.1 / 3.1 **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.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			/
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: <u>TC</u>	X		Headspace Wisconsin Sulfide			/
Time 5035A TC placed in Freezer or Short Holds To Lab: <u>1650</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested:		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm):			/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?:		/	
			Trip Blank Custody Seals?:		/	

Comments:

Sample Container Count

CLIENT: Arcadis

COC PAGE 1 of 2

COC ID# 2397285

Project # 50224684

SBS
Bulk Kit

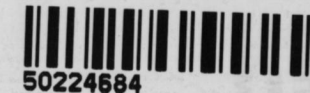
Sample Line Item														R	Matrix S/M/W/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH >12	
	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N						BP3S
1																4	SL		
2																4	L		
3	3																WT		
4	9																WT		
5	3																L		
6	1																L		
7																4	SL		
8																4	L		
9	3																		
10	3																		
11																			
12																			

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

Sample Container Count

WO#: 50224684



CLIENT: Arcadis

COC PAGE 2 of 2
COC ID# 2397286

Project # 50224684

SBS
DI
Bulk
Kit

Sample Line Item	DG9H (V99)	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix (Soil/Aquec)	pH <2	pH >9	pH >12
1	3			3												2		WT			
2				3														↓			
3							5											5			
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

APPENDIX B

ISI Soil Boring Logs



SOIL BORING LOG

Boring No.: SB-1
 Sheet : 1 of 3

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>6-May-19</u>	Logger: <u>R. Woodruff / B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>6-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 65F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0	N/A	SB-1 (0-2) 1127 Soil	60"	7.5	0.0 - 0.25	Asphalt	Backfilled with pressure grout and bentonite chips
					0.25 - 2.0	Fill - gravels with silt and sand, black, slag, dry loose	
2	N/A	SB-1 (2-4) 1131 Soil	60"	0.7	2.0 - 3.75	Silty Clay, brown, dry, slightly plastic, stiff to medium stiff	Backfilled with pressure grout and bentonite chips
					3.75 - 11.75	Silty Clay with Sands, brown, slight moisture, slightly plastic, soft to stiff	
4	N/A		48"	1.6		-5.0 - 7.0; wet, soft	
6	N/A		48"	1.4			
8	N/A	SB-1 (7-11)GW 1118 GW	28"	1.6			
10	N/A		28"	1.6			
12	N/A	SB-1 (11-15)GW 1118 GW	48"	1.5	11.75 - 12.50	Sand, brown, fine to medium, moist, wet, cohesive, compacted, firm	
					12.50 - 15.0	Sand and Pebbles, light brown to rust brown, wet, moist, cohesive, firm	
14	N/A		48"	2	15.0 - 31.0	Clay (Till), gray, hard, non-plastic, trace pebbles, trace gravels	
16	N/A		48"	0.3			
18	N/A		48"	0.3			
20	N/A		48"	0.3			

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: <u>No recovery from 38' to 44', cease drilling.</u>	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Surface Elev: <u>NM</u>
	North Coord: <u>NM</u>
	East Coord: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-1

Sheet : 2 of 3

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>6-May-19</u>	Logger: <u>R. Woodruff / B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>6-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 65F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
22	N/A		48"	1.0			
24	N/A						
26	N/A		48"	0.2			
28	N/A						
30	N/A		24"	1.2			
32	N/A		48"	1.6	31.0 - 32.0	Silty Sand, gray to brown, wet, poorly sorted, non-plastic, no odor	
34	N/A		30"	1.4	32.0 - 35.50	Silty Clay, gray, trace sand, wet, non-plastic, no odor	
36	N/A		24"	0.5	35.50 - 36.50	-35.0; 1/2" rock fragments Silty Clay, brown with trace gray mottling, wet, plastic, no odor, trace organic debris (wood)	
38	N/A		24"	1.4	36.50 - 38.0	Silty Clay with trace Sand, gray, wet, non-plastic, no odor	
40	N/A		0"	NM	38.0 - 44.0	No Recovery - presumed Sand due to residue on liners	

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: <u>No recovery from 38' to 44', cease drilling.</u>	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Surface Elev: <u>NM</u>
	North Coor: <u>NM</u>
	East Coor: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-1

Sheet : 3 of 3

Project Name: Former Avin Industries Facility Date Started: 6-May-19 Logger: R. Woodruff / B. Cosky
 Project Number: IN001342.0001 Date Completed: 6-May-19 Editor: R. Woodruff
 Project Location: Franklin, IN Weather Conditions: Sunny, 65F

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
42	N/A		0"	NM			
44	N/A		0"	NM			
						-End of Boring at 44.0'	
46							
48							
50							
52							
53							
56							
58							
60							

Drilling Co.: SCS
 Driller: Philip Weaver / Karsten Lehner
 Drilling Method: Geoprobe 7822DT
 Drilling Fluid: None
 Remarks: No recovery from 38' to 44', cease drilling.

Sampling Method: Direct Push
 Sampling Interval: 2 - 4 feet
 Water Level Start: NM
 Water Level Finish: NM
 Converted to Well: Yes No
 Surface Elev: NM
 North Coord: NM
 East Coord: NM

SOIL BORING LOG

 Boring No.: SB-2
 Sheet : 1 of 1

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>6-May-19</u>	Logger: <u>R. Woodruff / B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>6-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 72F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
2	N/A		60"	3.1	0.0 - 0.25 0.25 - 0.70 0.70 - 12.0	Asphalt Fill, gravel base Silty Clay, brown with trace gray mottling, no odor, plastic.	Backfilled with bentonite chips
	N/A			5.1			
	N/A	SB-2 (4-5) 1638 Soil		71.5		-4.0; odor	
6	N/A	SB-2 (5-9)GW 1731 GW	36"	80.4		-5.0; wet, trace 1/4" gravels, no odor	
	N/A			45			
10	N/A	SB-2 (9-13)GW 1708 GW	36"	18			
	N/A			3			
12	N/A		36"	17.1	12.0 - 14.0	Silty Sand, brownish gray, wet, poorly sorted, trace <1/4" gravel, non-plastic	
14	N/A	SB-2 (13-17)GW 1640 GW	40	7.9	14.0 - 15.0	Silty Clay, brown, wet, non-plastic, trace gravel	
					15.0 - 17.0	Silty Sand, grayish brown, wet, poorly sorted, non-plastic	
16	N/A		48	3.2	17.0 - 18.0	Silty Clay with trace Sand, gray, moist, non-plastic, no odor	
18						-End of Boring @ 18.0'	
20							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coor: <u>NM</u>
_____	East Coor: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-3
 Sheet : 1 of 2

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>7-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>7-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 70F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0	N/A	SB-3 (0-2) 1044 Soil	60"	9.5	0.0 - 0.5 0.5 - 4.0	Topsoil, grass-organics Silty Clay, dark brown with light brown mottling, moist, plastic	Backfilled with bentonite chips
2	N/A	SB-3 (2-4) 1055 Soil Dup-2		22.8			
4	N/A		28"	1.3	4.0 - 12.50	Silty clay, brown, moist, plastic, trace organics, trace gravel	
6	N/A			0.5			
8	N/A		40"	0.5		-6.0; wet	
10	N/A	SB-3 (7-11)GW 1049 GW		1.5			
12	N/A		48"	1.4			
14	N/A	SB-3 (11-15)GW 1021 GW Dup-1		1.6	12.50 - 16.0	Silty Sand, brown, poorly sorted, non-plastic, no odor	
16	N/A		20"	1.4		-15.0; very fine sand	
18	N/A	SB-3 (15-19)GW 0958 GW		1.9	16.0 - 18.0	Silty Clay, brown, dry, non-plastic, no odor	
20	N/A		40"	2.2	18.0 - 20.0	Silty Sand, brown, poorly sorted, medium, wet, no odor	

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coord: <u>NM</u>
_____	East Coord: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-3
 Sheet : 2 of 2

Project Name: Former Avin Industries Facility Date Started: 7-May-19 Logger: B. Cosky
 Project Number: IN001342.0001 Date Completed: 7-May-19 Editor: R. Woodruff
 Project Location: Franklin, IN Weather Conditions: Sunny, 70F

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
20.0 - 22.0	N/A		24"	2.4	20.0 - 22.0	Silty Clay, brown, dry, non-plastic, no odor	
22						-End of Boring @ 22.0'	
24							
26							
28							
30							
32							
34							
36							
38							
40							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coor: <u>NM</u>
_____	East Coor: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-4
 Sheet : 1 of 1

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>7-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>7-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 72F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
2	N/A	SB-4 (0-2) 1232 Soil	60"	22.9	0.0 - 0.50	Gravel	Backfilled with bentonite chips
					0.50 - 3.50		
4	N/A	SB-4 (2-4) 1237 Soil	36"	8.4	-2.0;	Clay, brown, moist, some black staining, plastic, odor	
					-3.4; wet		
6	N/A		36"	237	-5.0;		
					wet, periodic black staining		
8	N/A		36"	75.9			
10	N/A		36"	13.3	9.0 - 12.0	Clay, light brown, some gravel, poorly sorted, non-plastic, no odor	
12	N/A	SB-4 (14-10)GW 1213 GW	30"	3.2	-11.8';		
					brittle/friable		
14	N/A		30"	2.6	12.0 - 13.0	Silty Sand, brown, wet, no odor, poorly sorted, non-plastic	
					13.0 - 14.0		
16	N/A		18"	3.1	14.0 - 18.0	Silty Clay, brown, trace gravel, poorly sorted, brittle/friable, dry, no odor	
18	N/A		16"	3.3			
20						-End of Boring @ 18.0'	

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coor: <u>NM</u>
_____	East Coor: <u>NM</u>

SOIL BORING LOG

 Boring No.: SB-5
 Sheet : 1 of 1

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>7-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>7-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 72F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0.0 - 0.75	N/A		60"	2.6	0.0 - 0.75	Gravel	Backfilled with bentonite chips
0.75 - 4.0						Silty Sand and Gravel, poorly sorted, non-plastic, wet, odor, black staining, trace organics	
2	N/A	SB-5 (2-4) 1417 Soil	36"	22.2			
4	N/A	SB-5 (4-5) 1422 Soil			134.6	4.0 - 8.0	Clay, greenish gray, moist, odor, strace pebbles, plastic, wet
6	N/A		36"	35.5			
8	N/A				12.4		
10	N/A		36"	2.3	8.0 - 12.0	Clay, brown, non-plastic, trace pebbles, small black cinders, no odor	
12	N/A				2		
14	N/A		40"	2.9	12.0 - 16.0	Clay, gray, dry, trace pebbles, non-plastic, poorly sorted, dry, no odor	
16	N/A	SB-5 (18-14)GW 1351 GW			1.2		
18	N/A		36"	2.1	16.0 - 18.0	Silty Sand, gray, coarsening with depth, poorly sorted, wet, no odor, non-plastic	
20	N/A		24"	1.4	18.0 - 20.0	Silty Clay, brown, dry, no odor, trace gravel, poorly sorted, non-plastic, brittle/friable	
						-End of Boring @ 20.0'	

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coord: <u>NM</u>
_____	East Coord: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-6
 Sheet : 1 of 1

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>7-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>7-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 72F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0.0 - 1.0	N/A	SB-6 (0-2) 1608 Soil	60"	12.1	0.0 - 1.0	Gravel	Backfilled with bentonite chips
1.0 - 2.0	N/A	SB-6 (2-4) 1613 Soil		3.1	1.0 - 2.0	Sandy Silt, brown, trace gravel, poorly sorted, dry, odor, non-plastic	
2.0 - 4.0	N/A				2.0 - 4.0	Clayey Silt, gray, trace gravel, poorly sorted, dry, odor, non-plastic	
4.0 - 12.0	N/A		18"	0.9	4.0 - 12.0	Silty Clay, brown, dry, no odor, plastic, trace gravel -5.0; wet	
6.0	N/A			0.7			
8.0	N/A		41"	0.5			
10.0	N/A			0			-9.0; cinders
12.0	N/A				0.1		
12.0 - 15.0	N/A	SB-6 (15-11)GW 1621 GW	24"	0	12.0 - 15.0	Silty Sand, gray, fines, trace pabbles, wet, no odor, non-plastic	
14.0	N/A			0			
15.0 - 18.0	N/A				0	15.0 - 18.0	Silty Clay, brown, dry, no odor, trace gravel, poorly sorted, non-plastic, brittle friable
16.0	N/A		24"	0.3			
18.0							-End of Boring at 18.0'
20.0							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coor: <u>NM</u>
_____	East Coor: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-7
 Sheet : 1 of 3

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>8-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>8-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 60F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0.0 - 1.0	N/A			8.1	0.0 - 1.0	Gravel	Backfilled with pressure grout and bentonite chips
1.0 - 2.0	N/A		60"	66.9	1.0 - 2.0	Sandy Silt, brown, dry, non-plastic, odorm trace pebbles	
2.0 - 8.0	N/A	SB-7 (2-4) 0855 Soil			2.0 - 8.0	Silty Clay, dark brown, dry, plastic, odor	
4.0	N/A	SB-7 (4-6) 0900 Soil		107.5		-4.0; trace gray, clayey silt, non-plastic	
6.0	N/A		27"	18.3		-6.0; dark brown staining streaks	
8.0	N/A				8.0 - 14.0	Sandy Clay, brown, moist, no odor, non-plastic	
10.0	N/A		36"	7.9		-11.0; wet	
12.0	N/A			13.6		-12.0; odor and staining -13.0; no odor, no staining	
14.0	N/A	SB-7 (17-13)GW 1300 GW	30"	19.3	14.0 - 15.0	Sand, tan, fines, non-plastic, no odor, wet	
16.0	N/A				15.0 - 17.0	Silty Sand, brown, poorly sorted, some 1/4" pebbles, wet, no odor, non-plastic	
18.0	N/A		24"	17.1	17.0 - 41.0	Clay, brown, dry, no odor, non-plastic, brittle/ friable, trace gravel	
20.0	N/A		24"	19.2			

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coor: <u>NM</u>
_____	East Coor: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-7
 Sheet : 2 of 3

Project Name: Former Avin Industries Facility Date Started: 8-May-19 Logger: B. Cosky
 Project Number: IN001342.0001 Date Completed: 8-May-19 Editor: R. Woodruff
 Project Location: Franklin, IN Weather Conditions: Sunny, 60F

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
22	N/A		24"	16.8			
24	N/A		24"	13.4			
26	N/A		36"	10.2			
28	N/A		36"	8.7			
30	N/A		40"	9.7			
32	N/A		38"	11			
34	N/A		42"	9			
36	N/A		44"	10.6		-35.0; moist, slightly plastic, trace sand	
38	N/A		36"	11.6			
40	N/A		48"	10.7		-38.0 - 40.0; increased gravels and fine sand, dry, non-plastic; gravels up to 1"	

Drilling Co.: SCS
 Driller: Philip Weaver / Karsten Lehner
 Drilling Method: Geoprobe 7822DT
 Drilling Fluid: None
 Remarks: _____

Sampling Method: Direct Push
 Sampling Interval: 2 - 4 feet
 Water Level Start: NM
 Water Level Finish: NM
 Converted to Well: Yes No
 Surface Elev: NM
 North Coor: NM
 East Coor: NM

SOIL BORING LOG

Boring No.: SB-7
 Sheet : 3 of 3

Project Name: Former Avin Industries Facility Date Started: 8-May-19 Logger: B. Cosky
 Project Number IN001342.0001 Date Completed: 8-May-19 Editor: R. Woodruff
 Project Location Franklin, IN Weather Conditions: Sunny, 60F

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
41.0 - 43.0	N/A		40"	11.5	41.0 - 43.0	Sandy Clay, brown, poorly sorted, trace gravel, non-plastic, dry	
43.0 - 48.0	N/A		48"	8.4	43.0 - 48.0	Silty Sand, reddish brown, wet, no odor, trace gravel, non-plastic, some brown mottling, some oxidation staining	
44.0 - 46.0	N/A		44"	16.6		*Heaving sand encountered, and could not get equipment back down to depth to continue sampling.	
46.0 - 48.0	N/A		48"	4.7			
48.0						-End of Boring at 48.0'	
50.0							
52.0							
53.0							
56.0							
58.0							
60.0							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coor: <u>NM</u>
_____	East Coor: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-8
 Sheet : 1 of 2

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>8-May-19</u>	Logger: <u>R. Woodruff</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>8-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 80F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0					0.0 - 0.5	Topsoil, grass-organics	Backfilled with bentonite chips
2	N/A		60"	4.1	0.5 - 2.60	Silty Clay, mottled browns, dry, firm, slightly plastic	
4	N/A			13	2.60 - 3.0 3.0 - 4.0	-2.0; trace moisture Silty Sand, brown, wet, cohesive, medium to fine Silty Clay with Trace Sand, mottled browns, trace moisture, slightly plastic	
6	N/A			5.1	4.0 - 5.50	Silt, brown, fines, moist, slightly plastic	
8	N/A		48"	18	5.50 - 11.50	Silty Sandy Clay, brown, trace pebbles, dry, slightly plastic, stiff	
10	N/A		22"	19.7			
12	N/A		25"	15.3			
14	N/A	SB-8 (16-12)GW 1710 GW	37"	14.7	11.50 - 12.0 12.0 - 12.8	Silty Clay with Pebbles, gray, hard, non-plastic Sand, brown, fine to medium, moist, cohesive firm; coarse sand and pebbles at 12.7'	
16	N/A		30"	14.5	12.80 - 13.40 13.40 - 13.80	Silty Clay with Pebbles, gray, hard, non-plastic Silty Sand, gray, medium to fine, trace pebbles, cohesive, stiff, moist/wet	
18	N/A		30"	15.4	13.80 - 14.20 14.20 - 16.20	Silty Clay with Pebbles, gray, hard, non-plastic, trace moisture Silty Sand-Sandy Silt, gray, hard, trace moisture, non-plastic	
20	N/A		42"	13.2	16.20 - 24.5	Silty Clay, grey, trace pebbles, hard, non-plastic, dry -18.0; friable, color change to brownish gray	

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coord: <u>NM</u>
_____	East Coord: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-8

Sheet : 2 of 2

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>8-May-19</u>	Logger: <u>R. Woodruff</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>8-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 80F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
22	N/A		34"	21.9			
24	N/A		36"	21		-22.5 - 23.5; gravels	
26	N/A		36"	10.1	24.50 - 25.20 25.20 - 27.0	Silty Sand, gray, wet, non-plastic, cohesive, soft to hard Silty Clay, gray, hard, non-plastic, trace pebbles	
28	N/A		36"	11.3	27.0 - 27.90	Sand and Pebbles, gray, wet, coarse, loose	
30	N/A		36"	15.4	27.90 - 31.0	Silty Clay, gray, hard, non-plastic, trace pebbles	
32	N/A		22"	15.6		*Refusal encountered -End of Boring @ 31.0'	
34							
36							
38							
40							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Surface Elev: <u>NM</u>
	North Coor: <u>NM</u>
	East Coor: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-9
 Sheet : 1 of 3

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>9-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>9-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Rain, 50F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0		SB-9 (0-2) 1142 Soil	60"	1.1	0.0 - 0.50 0.50 - 8.50	Topsoil - grass, organics Silty Clay, brown, moist, no odor, plastic, tan mottling	Backfilled with pressure grout and bentonite chips
2	N/A			2.1			
4	N/A	SB-9 (2-4) 1148 Soil	24"	3.1		-5.0, wet, increased tan mottling	
6	N/A			3.5			
8	N/A		48"	3.8	8.50 - 13.0	Silty Clay, gray, trace gravel, wet, no odor, plastic	
10	N/A			5.7			
12	N/A	SB-9 (16-12)GW 1344 GW	47"	7.9	13.0 - 14.0	Silty Sand, gray, fines, poorly sorted, wet, no odor, non-plastic	
14	N/A			8.9	14.0 - 15.0	Silty Clay, gray, wet, no odor, plastic	
16	N/A		27"	9.8	15.0 - 16.0	Silty Sand, gray, coarse, wet, no odor, non-plastic	
18	N/A			9.8	16.0 - 34.0	Silty Clay, gray, moist, non-plastic, trace gravel -17.0; dry	
20	N/A		30"	7.4			

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coord: <u>NM</u>
_____	East Coord: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-9
 Sheet : 2 of 3

Project Name: Former Avin Industries Facility Date Started: 9-May-19 Logger: B. Cosky
 Project Number: IN001342.0001 Date Completed: 9-May-19 Editor: R. Woodruff
 Project Location: Franklin, IN Weather Conditions: Rain, 50F

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
22	N/A		24"	10.9			
24	N/A		27"	7			
26	N/A		30"	7.7			
28	N/A		38"	9.2		-26.0; slightly moist	
30	N/A		36"	6.4		-28.0; dry	
32	N/A		30"	11			
34	N/A		32"	12.3			
36	N/A		34"	8.6	34.0 - 35.50	Silty Sand, gray, fines, wet, no odor, non-plastic	
38	N/A		30"	8.2	35.50 - 42.0	Silty Clay, gray, dry, no odor, non-plastic, trace gravel up to 1"	
40	N/A		24"	6.8			

Drilling Co.: SCS
 Driller: Philip Weaver / Karsten Lehner
 Drilling Method: Geoprobe 7822DT
 Drilling Fluid: None
 Remarks: _____

Sampling Method: Direct Push
 Sampling Interval: 2 - 4 feet
 Water Level Start: NM
 Water Level Finish: NM
 Converted to Well: Yes No
 Surface Elev: NM
 North Coor: NM
 East Coor: NM

SOIL BORING LOG

Boring No.: SB-9

Sheet : 3 of 3

Project Name: Former Avin Industries Facility Date Started: 9-May-19 Logger: B. Cosky
 Project Number IN001342.0001 Date Completed: 9-May-19 Editor: R. Woodruff
 Project Location: Franklin, IN Weather Conditions: Rain, 50F

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
42	N/A		26"	2.5			
44	N/A		24"	1.9	42.0 - 44.0	Silty Sand, tan, medium to coarse, poorly sorted, wet, no odor, non-plastic	
46	N/A		30"	1.5	44.0 - 46.0	Sandy Clay, gray, trace silt, dry, no odor, plastic	
48	N/A		48"	1.4	46.0 - 54.0	Silty Sand, tan, medium to coarse, poorly sorted, wet, no odor, non-plastic,	
50	N/A		48"	1.8		-48.50 - 49.50; trace clay	
52	N/A		44"	2			
54	N/A		Damaged Liner	NM		*Refusal Encountered End of Boring @ 54.0'	
56							
58							
60							

Drilling Co.: SCS
 Driller: Philip Weaver / Karsten Lehner
 Drilling Method: Geoprobe 7822DT
 Drilling Fluid: None
 Remarks: _____

Sampling Method: Direct Push
 Sampling Interval: 2 - 4 feet
 Water Level Start: NM
 Water Level Finish: NM
 Converted to Well: Yes No
 Surface Elev: NM
 North Coor: NM
 East Coor: NM

SOIL BORING LOG

Boring No.: SB-10
Sheet : 1 of 1

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>9-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>9-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Cloudy, 72F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0	N/A	SB-10 (0-2) 1629 Soil	60"	10.1	0.0 - 0.5 0.5 - 5.0	Concrete Silty Clay, greenish gray, dry, no odor, slightly plastic	Backfilled with bentonite chips
2	N/A	SB-10 (2-4) 1633 Soil Dup-5		15		-2.50 - 3.0; 1" to 2" gravels -3.75 - 4.0; black staining	
4	N/A		46"	10	5.0 - 13.0	Silty Clay, brown, moist, no odor, trace gravel, brick fragments, plastic	
6	N/A			6.7		-7.0; wet	
8	N/A		48"	3			
10	N/A			3.7			
12	N/A	SB-10 (16-12)GW 1641 GW Dup-4	24"	4.6	13.0 - 14.0	Silty Clay, gray, moist, no odor, trace gravel, trace brick fragments, plastic	
14	N/A		NM	1.7	14.0 - 15.50	Silty Sand, gray, fine to medium, wet, no odor, non-plastic, poorly sorted	
16	N/A		18"	1.9	15.50 - 20.0	Clayey Silt, gray, moist, no odor, non-plastic, trace gravel	
18	N/A		24"	1.9			
20						End of Boring at 20.0'	

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coord: <u>NM</u>
_____	East Coord: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-11
 Sheet : 1 of 2

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>10-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>10-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 50F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0		SB-11 (0-2) 0956 Soil	60"	0.3	0.0 - 0.50 0.50 - 5.0	Topsoil, grass-organics Silty Clay, brown, trace gravel, dry, no odor, non plastic	Backfilled with pressure grout and bentonite chips
2	N/A	SB-11 (2-4) 1001 Soil		0.5			
4	N/A		27"	0.3	5.0 - 21.0	Silty Sand, reddish brown, fines, moist, no odor, non-plastic	
6	N/A			0.3			
8	N/A		30"	0.6		-7.5; wet	
10	N/A	SB-11 (13-9)GW 1143 GW		0.4			
12	N/A		0"	NM		*No recovery 12.0 - 16.0; pushed rock with liner/rods	
14	N/A	SB-11 (17-13)GW 1118 GW		NM			
16	N/A		48"	0.6			
18	N/A	SB-11 (21-17)GW 1058 GW		0.4			
20							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coord: <u>NM</u>
_____	East Coord: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-11
 Sheet : 2 of 2

Project Name: Former Avin Industries Facility Date Started: 10-May-19 Logger: B. Cosky
 Project Number: IN001342.0001 Date Completed: 10-May-19 Editor: R. Woodruff
 Project Location: Franklin, IN Weather Conditions: Sunny, 50F

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
22	N/A		30"	0.6	21.0 - 35.0	Silty Clay, brown, trace gravel, non-plastic, dry, no odor	
24	N/A		30"	0.6			
26	N/A		30"	0.9		-24.5 - 25.0; 1/2" gravel	
28	N/A		33"	0.7			
30	N/A		34"	0.6			
32	N/A		36"	0.5			
34	N/A		42"	0.4			
36	N/A		36"	0.4	35.0 - 35.50	Sand, gray, fines, wet, no odor, non-plastic, well sorted	
38						*Refusal Encountered End of Boring @ 35.50'	
40							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coor: <u>NM</u>
_____	East Coor: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-12
 Sheet : 1 of 2

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>10-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>10-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 50F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
0		SB-12 (0-2)	60"	0.2	0.0 - 0.50	Topsoil, grass-organics	Backfilled with bentonite chips
2	N/A	1320 Soil			0.50 - 3.0	Silty clay, brown, no odor, trace gravel, moist, low plasticity	
4	N/A	SB-12 (2-4)		27"	0.7	-2.0; dark staining	
6	N/A	1325 Soil	3.0 - 5.50			Clayey Silt, dark brown, moist, no odor, low plasticity	
8	N/A	SB-12 (10-6)GW 1408 GW	36"	0.6	5.50 - 9.0	Sandy Clay, brown, wet, no odor, non-plastic	
10	N/A				1	9.0 - 12.0	
12	N/A	SB-12 (17-13)GW 1353 GW	40"	0.7	12.0 - 16.0	Silty Sand, brown, fine to medium, poorly sorted, wet, no odor, non-plastic	
14	N/A				1		
16	N/A		24"	0.7	16.0 - 24.0	Sand, tan, medium to coarse, trace gravel, poorly sorted, wet, no odor	
18	N/A		24"	1.1			
20							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coord: <u>NM</u>
_____	East Coord: <u>NM</u>

SOIL BORING LOG

Boring No.: SB-12

Sheet : 2 of 2

Project Name: <u>Former Avin Industries Facility</u>	Date Started: <u>10-May-19</u>	Logger: <u>B. Cosky</u>
Project Number: <u>IN001342.0001</u>	Date Completed: <u>10-May-19</u>	Editor: <u>R. Woodruff</u>
Project Location: <u>Franklin, IN</u>	Weather Conditions: <u>Sunny, 50F</u>	

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	Depth (feet)	Description	Construction Details
22	N/A	SB-12 (24-20)GW 1338 GW	36"	0.4			
24	N/A		12"	1			
24					24.0 - 24.10*	Silty Clay, brown, dry, no odor, nard, non-plastic *Refusal encountered just after 24.0, material collected from cutting shoe.	
26						End of Boring @ 24.10'	
28							
30							
32							
34							
36							
38							
40							

Drilling Co.: <u>SCS</u>	Sampling Method: <u>Direct Push</u>
Driller: <u>Philip Weaver / Karsten Lehner</u>	Sampling Interval: <u>2 - 4 feet</u>
Drilling Method: <u>Geoprobe 7822DT</u>	Water Level Start: <u>NM</u>
Drilling Fluid: <u>None</u>	Water Level Finish: <u>NM</u>
Remarks: _____	Converted to Well: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
_____	Surface Elev: <u>NM</u>
_____	North Coor: <u>NM</u>
_____	East Coor: <u>NM</u>

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A decorative graphic consisting of three thin orange lines. One line is horizontal, extending across the bottom of the page. Two other lines are diagonal, starting from the bottom left and extending towards the top right, crossing the horizontal line.