



REPORT OF PHASE II ENVIRONMENTAL SITE ASSESSMENT

CONVENTION CENTER – HOTEL SITE
225 & 227 SOUTH UNION STREET, 212 & 226 SOUTH MAIN STREET,
AND PRIVATE PARCELS, KOKOMO, INDIANA

SME Project Number: 073195.00.04B.006

February 20, 2018

Prepared for: The City of Kokomo, Cooperative Agreement # BF00E01545-0





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February 20, 2018

Ms. Jennifer Jordan
Director of Development
City of Kokomo
100 South Union Street
Kokomo, Indiana 46901

RE: Phase II Environmental Site Assessment Report
Convention Center – Hotel Site
225 & 227 South Union Street, 212 & 226 South Main Street, and private
parcels
Kokomo, Indiana
SME Project Number: 073195.00.04B.006

Dear Ms. Jordan:

SME has completed a Phase II Environmental Site Assessment (ESA) of the above referenced property, hereinafter referred to as the Property. The enclosed Phase II ESA report presents SME's interpretation of site conditions at the time the Phase II ESA was completed based on field observations and laboratory supplied data.

The Phase II ESA was requested to assess recorded and readily observable recognized environmental conditions associated with the Property. SME understands the City of Kokomo will rely upon the professional opinions and representations contained in the report in accordance with the terms and conditions agreed upon for the project. This reliance is not to be construed as a warranty or guarantee on the part of SME.

Thank you for the opportunity to provide these services. If you have any questions concerning this report, or if additional services are required, please call.

Very truly yours,

SME

A handwritten signature in blue ink, appearing to read "Chris Shaw".

cosign

Christopher G. Shaw, CHMM
Senior Project Consultant

A handwritten signature in blue ink, appearing to read "Rob Walker".

Robert B. Walker, LPG cosign
Senior Consultant

Distribution: File Link via Newforma

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1. INTRODUCTION

SME's assessment team prepared this report to present the results of a Phase II Environmental Site Assessment (ESA) of the Convention Center – Hotel Site project. The project is comprised of the following sites: 225 South Union Street, the former Kokomo Cover and Trim (227 South Union Street), the Armstrong Landon Parking Lot (approximately 212 South Main Street), and 226 South Main Street, Kokomo, Howard County, Indiana, hereinafter referred to as “the Property.” The Property location is shown on Figure 1. The assessment activities were funded by a United States Environmental Protection Agency (USEPA) Brownfield Assessment Coalition Grant (BF00E01545-0) for hazardous substances and petroleum awarded to the City of Kokomo Coalition (Coalition). The City of Kokomo (the City) intends to support the redevelopment of the Brownfield site through use of USEPA assessment grant funds provided by the Coalition. Additional off-site activities at 200 South Main Street and 123 East Superior Street were privately funded by the owner of those parcels, the City of Kokomo. We conducted the assessment in general accordance with the EPA-approved Sampling and Analysis Plan (SAP), dated October 2, 2017, and provided in Appendix A, and Quality Assurance Project Plan (QAPP) Update Revision 0, approved on February 5, 2016.

A geophysical survey completed at the Property is included as Appendix B. Soil boring logs reporting subsurface conditions are provided as Appendix C. Groundwater conditions as noted during sampling are provided in low-flow sampling logs provided as Appendix D. Laboratory analytical results are provided as Appendix E. A geotechnical evaluation was conducted at a subset of soil boring locations. The results of this investigation are provided within a geotechnical report included as Appendix F.

1.1 SITE DESCRIPTION AND BACKGROUND

The Property consisted of four parcels, which were approximately an acre of land developed with concrete building pads and asphalt paved parking. The private parcels totaled approximately 0.2 acres of land with remnants of paved parking. The area surrounding the Property was comprised of commercial industrial developments in downtown Kokomo. Wildcat Creek bordered the Property to the south. South Main Street bordered the Property to the west and South Union Street bordered the Property to the east.

SME has completed Phase I ESAs on each of the Property parcels. The identified RECs are listed below.

225 South Union Street (report dated August 20, 2014)

- The historic presence of a blacksmith, automotive repair, automotive painting, automotive body shop operations, printing, laundry, and manufacturing on the Property.
- The potential for an undetected release from the 55-gallon drums of flammable liquid to the floor drains located inside the building.
- The surface staining beneath the eastern air compressor located inside the building.
- The potential for environmental impact from unreported and/or undetected releases and subsequent migration of hazardous substances and/or petroleum products onto the Property from current and/or historical uses of properties to the north, east, and west of the Property. These include retail paint sales, furniture stripping, natural gas and oil operations, machine shop, battery service, steam laundry, repair shops, automotive repair shops, and UST operations.

Kokomo Cover and Trim, 227 South Union Street (report dated September 12, 2016)

- The historic presence of machine shops, welding, battery service, automotive repair, and automotive body shop operations on the Property.

- The potential for environmental impact from unreported and/or undetected releases and subsequent migration of hazardous substances and/or petroleum products onto the Property from current and/or historical uses of properties to the north, northeast, east, west, and northwest of the Property. These include blacksmith, automotive repair, automotive painting, automotive body shop operations, printing, laundry, manufacturing, stamping, retail paint sales, furniture stripping, natural gas and oil operations, repair shops, and UST operations.

226 South Main Street (reported dated April 14, 2017)

- Current furniture stripping operations at the Property and historic furniture stripping, natural gas operations, repair shops, UST operations, and automotive body shop.
- Historic operations on surrounding properties, including machine shops, battery service, automotive repair, printing, automotive body shop operations, steam laundry/dry cleaners, manufacturing, and UST operations.

Armstrong Landon Property Parking Lot, approximately 212 South Main Street (report dated June 19, 2013)

- A gasoline tank that was located on the South Main Street parcel from 1948 to at least 1953.
- The potential for environmental impact on the Property, from the migration of undetected and/or unreported releases of hazardous substances and/or petroleum products from historical use of the surrounding sites.

Private Parcels

The private parcels were located to the north/northwest of the Property, near the intersection of South Main Street and East Superior Street. The addresses associated with the parcels are 200 and 208 South Main Street for the western parcel and 123 East Superior Street for the eastern parcel.

1.2 PURPOSE

We designed the scope of this assessment to evaluate current site environmental conditions for the purpose of supporting environmental due diligence for the potential redevelopment of the Property and north-adjointing private parcels.

We prepared this report to document the encountered subsurface conditions, soil and groundwater sampling procedures, results of soil and groundwater chemical analysis, and our conclusions and recommendations.

2. SCOPE OF ASSESSMENT

Twenty-four soil borings, with all converted into temporary monitoring wells, were installed at the Property from November 13, 2017, to November 15, 2017 to screen for environmental impact. Four additional soil borings were installed and converted into temporary monitoring wells on the private parcels on November 15, 2017. The borings were advanced to a maximum depth of 30 feet below ground surface (bgs), and soil samples were collected for visual classification, field screening for evidence of contamination, and/or chemical analyses. Groundwater samples were collected from each temporary well location. The sampling locations are shown on Figure 2, while the rationale for each sample location is provided in the EPA-approved Sampling and Analysis Plan (SAP) that is included in Appendix A. All samples were collected in accordance with the SAP and proposal for the private parcels with the exception that a groundwater sample was not collected from temporary well GP4 installed on the private parcels. The temporary monitoring well (GP4) was dry at the time the groundwater sampling was attempted. Summaries of the soil and groundwater samples collected and analyzed during this assessment are presented in Tables 1 and 2, respectively.

The chemicals-of-concern for the assessment include the following: volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and metals (arsenic, barium, cadmium, chromium (including hexavalent chromium), lead, mercury, selenium, and silver). The analytical parameters selected for each sample were based on the constituents of concern anticipated to be present in each boring or area of concern.

3. PROCEDURES

Summaries of our procedures for the soil borings, sampling activities, temporary groundwater monitoring well installation and sampling, decontamination, and chemical analyses are summarized in the following subsections. Copies of our operating procedures are available in the EPA-approved QAPP, and upon request. We completed the soil borings and collected soil and groundwater samples at the Property from November 13, 2017, through November 21, 2017.

3.1 GEOPHYSICAL METHODOLOGY

Electromagnetic metal detection mapping (EMD) was used as the primary geophysical method of investigation to identify underground structures for the northeastern investigation area and the private parcels. Ground penetrating radar (GPR) was selected as the primary geophysical method of investigation for the southern search area at the Property. One suspected underground storage tank was identified at the Property during the assessment. The approximate location of the suspected tank is depicted on Figures 2, 3, and 4. The geophysical reports are attached as Appendix B.

3.2 SOIL SAMPLING

The soil borings completed at the Property and the private parcels were advanced using hydraulically driven, direct-push equipment with clean, disposable four-foot vinyl acetate liners. The soil in each four-foot interval was visually evaluated, and representative samples were collected from each interval for visual classification. We visually classified the soil samples from the soil borings in general accordance with the Unified Soil Classification System (USCS). Detailed information regarding the soil conditions encountered at each boring is documented in soil boring logs in Appendix C.

A portion of each soil sample was used for field screening of ionizable vapors using a calibrated photoionization detector (PID) equipped with a 10.6 eV lamp. Field screening consisted of placing a portion of the sample in a sealed plastic bag for headspace analysis for the emission of total photoionizable vapors (TPVs). The tip of the PID was inserted in the headspace of the bag, and PID readings were recorded on our field activity report.

The amount of soil retained at each sampling location was dependent on chemical analyses requirements. First, soil samples intended for VOC laboratory analyses were removed from the sample liner and placed in methanol-preserved, unpreserved, and deionized water-preserved 40-milliliter (mL) glass vials following USEPA Method 5035A (Indiana Modified). Soil volumes sufficient for analyses of additional parameters (PAHs and metals) were then removed from the sample liner and transferred to pre-cleaned, four-ounce glass jars provided by the analytical laboratory.

Residual soil cuttings from the drilling activities were placed in 55-gallon drums that were staged on-site, pending disposal. Upon removal of the temporary monitoring wells (discussed below), each borehole was filled with hydrated bentonite chips to the ground surface. Sample locations completed in paved areas were patched with like materials.

3.3 GROUNDWATER SAMPLING

We installed temporary groundwater monitoring wells in all soil borings at the Property and on the private parcels. Groundwater was encountered at varying depths across the Property. Generally, groundwater was encountered during drilling of the soil borings at depths between approximately 12 to 20 feet bgs with the exception of the following:

- 6.5 to 9.5 feet bgs in soil borings SB01, SB15, GP2, and GP4; and
- 25.5 to 28 in soil borings SB13, SB14, and SB20.

Groundwater was not observed during drilling in soil boring SB22. Each of the temporary groundwater monitoring wells was constructed of a 5-foot long, 1-inch diameter, and 0.010-inch slotted PVC screen attached to 1-inch diameter PVC riser. Generally, each well was installed such that the screen intersected the water table as encountered during drilling. For soil boring SB22, the well was screened with the base of the screen at the bottom of the soil boring, in the absence of observed groundwater during the advancement of the boring.

Groundwater sampling was conducted via low-flow procedures in most temporary wells, which included recording the water level within the monitoring well for drawdown, and monitoring the groundwater quality parameters (e.g., pH, temperature, specific conductivity, dissolved oxygen (DO), and turbidity). The depths to groundwater, total well depths, purge volumes, field descriptions of purge water condition (i.e. color, odors, etc.) and low-flow parameters associated with the sampling activities were recorded on Groundwater Low Flow Monitoring Logs that are included in Appendix D. The temporary well installed in soil borings SB12, GP2, and GP3 were sampled via a bailer for PAHs and metals due to the minimal amount of water present in those temporary monitoring wells. All wells were sampled once stabilization was met, drawdown was exceeded, or 30 minutes elapsed. All groundwater samples intended for laboratory analyses were transferred into one or more of the following laboratory-supplied containers: 40-mL glass vials preserved with hydrochloric acid (VOC analyses); 250-mL plastic bottles preserved with nitric acid (metals analyses); 125-mL, unpreserved amber glass bottles (PAH analyses). The samples collected from the following temporary wells were placed into a 1-liter amber glass bottle and decanted into the appropriate containers for PAHs and metals: SB01, SB12, SB17, SB24, GP2, and GP3. The samples from SB03 and SB08 were collected only for VOCs due to the temporary wells going dry and not recharging.

Investigation-derived groundwater was placed into a labeled, 55-gallon drum that was staged on the Property pending disposal. The temporary wells at the Property were abandoned by an Indiana Licensed Water Well driller who removed the well materials, backfilled the borings to near the ground surface with hydrated bentonite, and patched the surface with like materials, where applicable.

3.4 SAMPLING QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

A new pair of disposable nitrile gloves was used for collection of each sample to minimize the potential for cross-contamination. New, acetate liners were used in the MacroCore® sample liner during collection of each direct push soil sample. Clean, unused polyethylene tubing and dedicated pump bladders or bailers were used for groundwater sampling.

We collected QA/QC samples of seven field duplicate samples (four soil and three groundwater) and seven matrix spike/matrix spike duplicate (MS/MSD) samples (four soil and three groundwater) to evaluate the precision of sampling activities. We submitted trip blank samples for analysis to evaluate the potential impacts of cross-contamination associated with sample collection, storage, and transport.

Field instrument calibration, sample handling and custody requirements, and laboratory analytical methods, analysis reporting limits (RLs), QA/QC procedures, and reporting protocols were consistent with those described in the project QAPP.

3.5 CHEMICAL ANALYSES

We submitted 55 soil, 27 groundwater, and 14 QA/QC samples for chemical analysis of one or more of the following parameters: VOCs, PAHs, and the metals arsenic, barium, cadmium, chromium, hexavalent chromium, lead, mercury, selenium, and/or silver. The samples were submitted to Pace Analytical Services (Pace) of Indianapolis, Indiana, which analyzed the samples using the reference methods listed below:

- VOCs– USEPA Method 8260 (soil and groundwater)
- PAHs – USEPA Method 8270 (soil) and 8270 SIM (groundwater)
- Metals – USEPA Methods 6010, 7196A, 7470, and 7471 (soil and/or groundwater)

4. RESULTS

The surface and subsurface conditions encountered during soil boring activities and the results of chemical analyses are described in the following subsections.

4.1 SURFACE AND SUBSURFACE CONDITIONS

The soil was visually classified in general accordance with the Unified Soil Classification System (USCS). Detailed information regarding the soil conditions encountered at each boring is documented in soil boring logs in Appendix C. The surface and subsurface conditions encountered are summarized below.

The surface of the soil boring locations consisted of concrete, asphalt, or gravel over the majority of the Property and private parcels. With the exception of soil borings SB13 to SB15, SB17 to SB20, and SB24 where fill was not noted, fill material was observed in borings beneath the surface materials down to a maximum depth of 13.5 feet bgs. The fill consisted of a silty clay with sand, gravel, and brick. Beneath the fill, silty clay with trace sand and gravel was present to the base of the borings, with noted layers of sand and gravel at varying depths. No odors or staining were noted in the soil samples recovered from the borings with the exception of soil boring SB01, SB03, SB04, SB06, SB07, SB08, where a hydrocarbon odor and staining was generally noted between 10 feet bgs to 20 feet bgs. Black staining was noted from 15 feet bgs to 16 feet bgs in soil boring SB02.

During groundwater sampling, groundwater was encountered at approximately 11 to 19 feet bgs across most of the Property, with shallower elevations in the temporary wells installed in SB01, SB15, SB19, SB21, SB24, and at GP2 on the private parcels. In these borings, groundwater was encountered between approximately 5 and 10 feet bgs during sampling. The saturated zone observed during drilling consisted of sand and gravel layers. A petroleum odor was noted on the groundwater samples from the temporary monitoring well installed in SB01, SB03, SB06, SB07, and SB08. A sheen was noted on the samples collected from the temporary well installed in soil borings SB01 and SB03. Groundwater flow direction is presumed to be southerly, toward the south-adjointing Wildcat Creek.

4.2 RESULTS OF CHEMICAL ANALYSES

Results of chemical analyses performed on soil and groundwater samples collected by SME are summarized in the following paragraphs and tabulated in Tables 1 and 2. Results of soil chemical analyses were compared to the 2017 Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Residential, Commercial/Industrial, and Excavation Direct Contact Screening Levels and Soil Migration to Groundwater Screening Levels. Results of groundwater chemical analyses were compared to IDEM RCG Residential Tap, Residential Vapor Exposure, and Commercial/Industrial Vapor Exposure Screening Levels. Laboratory analysis reports are included in Appendix E.

4.2.1 SOIL SAMPLE ANALYSIS

VOCs

Concentrations of the following constituents were detected above the IDEM RCG Soil Migration to Groundwater Screening Levels:

- 1,3,5-trimethylbenzene, benzene, ethylbenzene in soil sample SB03(12-14) and its duplicate
- N-propylbenzene in soil sample SB03(12-14)
- Trichloroethene (TCE) in soil sample SB15(8-10)
- Tetrachloroethene (PCE) in soil samples SB10(14-16), SB13(0-2), SB14(0-2), SB14(6-8), SB15(0-2), SB15(8-10), and SB16(10-12).

Additionally, concentrations of 1,2,4-trimethylbenzene were detected above the IDEM RCG Soil Migration to Groundwater, Residential Direct Contact, Commercial/Industrial Direct Contact, and the Excavation Worker Direct Contact Screening Levels in soil sample SB03(12-14). The concentration of 1,2,4-trimethylbenzene was detected above IDEM RCG Soil Migration to Groundwater and Residential Direct Contact Screening Levels in the duplicate for SB03(12-14).

No other VOC constituents were reported at concentrations exceeding IDEM RCG screening levels.

PAHs

Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected above the IDEM RCG Soil Migration to Groundwater Screening Levels in one or more of the following samples: SB03(12-14) and its duplicate, SB04(0-2), SB15(0-2), and SB16(0-2).

Soil samples SB01(0-2), SB02(0-2), the duplicate for SB03(12-14), SB15(0-2), and SB16(0-2) contained benzo(a)pyrene above the IDEM RCG Residential Direct Contact Screening Level.

Soil sample SB04(0-2) contained the following exceedances:

- dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene above the IDEM RCG Residential Direct Contact Screening Levels;
- benzo(a)anthracene and benzo(b)fluoranthene above the IDEM RCG Soil Migration to Groundwater and Residential Direct Contact Screening Levels; and
- benzo(a)pyrene above the IDEM RCG Soil Migration to Groundwater, Residential Direct Contact, and Commercial/Industrial Direct Contact Screening Levels.

No other PAH constituents were reported at concentrations exceeding IDEM RCG screening levels.

Metals

Concentrations of arsenic were detected above the IDEM RCG Soil Migration to Groundwater Screening Level in a majority of the samples collected across the Property and private parcels. In addition to exceeding the IDEM RCG Soil Migration to Groundwater Screening Level, the following samples exceeded the IDEM RCG Residential Direct Contact Screening Level for arsenic: SB04(0-2), SB06(0-2), SB07(0-2), SB08(0-2), SB08(12-14), SB09(0-2), SB19(0-2), SB21(0-2), SB23(0-2), SB24(0-2), and GP2(4-6).

Selenium was detected above the IDEM RCG Soil Migration to Groundwater Screening Level in soil sample SB06(0-2).

The samples that contained the highest concentrations of total chromium (although below IDEM screening levels) were then further analyzed for the presence of hexavalent chromium. Soil samples SB02(0-2), SB06(0-2), and SB14(0-2), SB17(0-2), and SB23(0-2) reported hexavalent chromium was not detected in the samples above the laboratory reporting limits.

No other metals constituents were reported at concentrations exceeding IDEM RCG screening levels.

4.2.2 GROUNDWATER SAMPLE ANALYSES

Multiple VOC constituents were detected in groundwater samples collected from temporary wells installed in soil borings that exceeded IDEM RCG Screening Levels:

- Methylene chloride above the IDEM RCG Residential Tap Screening Level in samples SB01-GW through SB08-GW, SB010-GW through SB014-GW, SB016-GW, and SB017-GW;
- 1,2,4-trimethylbenzene, 1-methylnaphthalene, and naphthalene above IDEM RCG Residential Tap Screening Levels and benzene above IDEM RCG Residential Tap and Residential Vapor Exposure Screening Levels in sample SB03-GW;
- Vinyl chloride above IDEM RCG Residential Tap and Residential Vapor Exposure Screening Levels and cis-1,2-dichloroethene above the IDEM RCG Residential Tap Screening Level in samples SB010-GW and SB011-GW;
- PCE and TCE above IDEM RCG Residential Tap and Residential Vapor Exposure Screening Levels in sample SB015-GW; and
- PCE above the IDEM RCG Residential Tap Screening Level and vinyl chloride above the IDEM RCG Residential Tap and Residential Vapor Exposure Screening Levels in sample SB016-GW.

No PAHs were detected in groundwater samples above IDEM RCG Screening Levels.

Arsenic in samples SB05-GW, SB06-GW and its duplicate, SB07-GW and its duplicate, SB010-GW, and SB016-GW exceeded the IDEM RCG Residential Tap Screening Level. No other target analytes were measured at concentrations exceeding IDEM RCG screening levels in the groundwater samples.

5. CONCLUSIONS AND RECOMMENDATIONS

We conducted a Phase II ESA of the Convention Center – Hotel Site located in the 200 block of South Union and South Main Streets, Kokomo, Howard County, Indiana. We designed the scope of the Phase II ESA to further evaluate the RECs identified in Phase I ESAs conducted at the Property and to investigate potential environmental impacts to private parcels located north of the Property.

Methylene chloride

Methylene chloride was detected in groundwater samples collected across the 226 South Main Street parcel, 225 and 227 South Union Street parcels, and in the northeastern corner of the Armstrong Landon Property Parking Lot parcel. Although these detections were reported, the laboratory also reported the constituent at similar levels in the method blank. The methylene chloride detections in groundwater are suspected as laboratory artifacts and not indications of contaminants in groundwater at the Property.

225 and 227 South Union Street (boring locations SB09 to SB16)

The parcels historically operated as blacksmith, automotive repair, automotive painting, automotive body shop operations, printing, laundry, machine shops, welding, battery service, and manufacturing. Surrounding properties operated as automotive repair, stamping, retail paint sales, furniture stripping, natural gas and oil operations, machine shop, battery service, steam laundry, and UST operations. VOCs were detected on these parcels above IDEM RCG Screening Levels. PCE was detected in shallow and deep soil samples and TCE was detected in deep soil samples above IDEM RCG Soil Migration to Groundwater Screening Levels. Groundwater samples along the southern and eastern boundaries of these parcels (soil boring locations SB10, SB11, SB15, and SB16) detected PCE, TCE, vinyl chloride, and cis-1,2-dichloroethene above IDEM RCG Residential Tap and/or Residential Vapor Exposure Screening Levels.

Benzo(a)pyrene was detected in the surface soil samples collected from soil borings SB15 and SB16 above the IDEM RCG Residential Direct Contact Screening Level. Naphthalene was measured in soil sample SB15(0-2) above the IDEM RCG Soil Migration to Groundwater Screening Level. No PAHs were detected in groundwater at the parcels.

Arsenic was detected in multiple samples collected from shallow and deeper soils at the parcels that exceeded the IDEM RCG Soil Migration to Groundwater Screening Level. Exceedances of the IDEM RCG Residential Direct Contact Screening Level were detected in soil sample SB09(0-2). Of these soil boring locations, arsenic was detected in groundwater above the IDEM RCG Residential Tap Screening Level at soil borings SB10 and SB16.

226 South Main Street (boring locations SB01 to SB08)

Historic operations on the parcel included furniture stripping, natural gas operations, repair shops, UST operations, and automotive body shop. Surrounding property historic operations are outlined above. In the area of the suspected historic UST, soil and groundwater hydrocarbon impacts were detected. The soil impacts were detected in deeper soils at soil boring SB3, from 12 to 14 feet bgs. These include 1,2,4-trimethylbenzene concentrations that exceed the IDEM RCG Residential, Commercial/Industrial, Excavation, and Soil Migration to Groundwater levels. The concentrations of 1,3,5-trimethylbenzene, benzene, ethylbenzene, and n-propylbenzene exceed the respective IDEM RCG Soil Migration to Groundwater levels. In groundwater at this location, 1,2,4-trimethylbenzene, 1-methylnaphthalene, benzene, and naphthalene were detected above IDEM RCG Residential Tap and/or Residential Vapor Exposure Screening Levels.

On this parcel, PAHs were detected in surface and subsurface soil samples exceeding IDEM RCG Screening Levels. Surface sample concentrations for benzo(a)pyrene in soil samples SB01(0-2) and SB02(0-2) exceeded the IDEM RCG Residential Direct Contact Screening Level. Benzo(a)pyrene was also detected from 12 to 14 feet bgs in soil boring SB03. In surface soils from soil boring SB04, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, benzo(a)anthracene, and benzo(b)fluoranthene were detected above the IDEM RCG Residential Direct Contact Screening Levels. Benzo(a)pyrene also was detected at this location above IDEM RCG Residential Direct Contact and Commercial/Industrial Direct Contact Screening Levels. Multiple constituents exceeded IDEM RCG Soil Migration to Groundwater Screening levels for PAHs, but no constituents were detected in groundwater at the parcel.

Arsenic was detected in the majority of samples collected from the parcel, both in shallow and deep soils, above the IDEM RCG Soil Migration to Groundwater Screening Level. In shallow soils from soil borings SB4, SB6, SB7, and SB8, and in deeper soils in soil boring SB8, arsenic concentrations exceeded the IDEM RCG Residential Direct Contact Screening Level. Arsenic was detected in groundwater samples above the IDEM RCG Residential Tap Screening Level in soil borings SB5, SB6, and SB7.

Selenium was detected in the shallow soil from soil boring SB6 above the IDEM RCG Soil Migration to Groundwater Screening Level, but was not detected in groundwater at the parcel.

Armstrong Landon Property Parking Lot (boring locations SB17 to SB24) and Private Parcels (boring locations GP1 to GP4)

Arsenic was detected in the majority of samples collected from the parcels, both in shallow and deep soils, above the IDEM RCG Soil Migration to Groundwater Screening Level. In shallow soils from soil borings SB19, SB21, SB23, and SB24, and in deeper soils in soil boring GP2, arsenic concentrations exceeded the IDEM RCG Residential Direct Contact Screening Level. Arsenic was not detected in groundwater samples at the parcels.

Downgradient Groundwater Quality

The concentrations of PCE, vinyl chloride, and cis- 1, 2-dichloroethene exceed their respective IDEM RCG Residential Tap screening levels in SB-10, SB-11 and SB-16. These temporary monitoring wells adjoin Wildcat Creek in the southeastern part of the Property. Neither IDEM nor USEPA Region 5 have established groundwater/surface water interface screening levels. Therefore, to evaluate the potential impact these concentrations may have on Wildcat Creek, SME compared the chlorinated compound concentrations in groundwater to the State of Michigan Part 201 groundwater/surface water interface screening levels (2013) and USEPA Region 4 National Recommended Surface Water Quality Criteria (2015) – Chronic and Acute screening levels. The comparison of the data to the Michigan Part 201 and USEPA Region 4 screening is presented in the table below. None of the concentrations measured in the three downgradient temporary monitoring wells exceeded the State of Michigan or USEPA Region 4 screening levels.

DOWNGRADIENT GROUNDWATER QUALITY DATA

ANALYTE	SAMPLE LOCATIONS (µg/L)			MI Part 201 Criteria GROUNDWATER/ SURFACE WATER INTERFACE (2013)	EPA REGION 4 NATIONAL RECOMMENDED SURFACE WATER QUALITY CRITERIA (2015) - CHRONIC	EPA REGION 4 NATIONAL RECOMMENDED SURFACE WATER QUALITY CRITERIA (2015) - ACUTE
	SB10	SB11	SB16			
Vinyl Chloride	9.5	8.9	11.3	13	N/A	N/A
Tetrachloroethene	N/A	N/A	9.8	60	53	430
cis-1,2-Dichloroethene	436	170	N/A	620	620	5,500

Redevelopment of the Property may require mitigation or exposure prevention of the soil impacts identified during this assessment. Additional assessment, a groundwater usage restriction, and/or remediation may be necessary to address the groundwater impacts.

The conclusions in this report are based on visual observations and results of chemical analyses of samples collected from the specified areas of assessment only. Should additional surface, subsurface, or chemical data become available after the date of issue of this report, the conclusions contained in this report may require modification after we have reviewed the additional information. Our review of additional information would be conducted upon receipt of a request from the client.

In the process of obtaining information in preparation of this report, procedures were followed that represent reasonable practices and principles in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions.

Report prepared by: Christopher G. Shaw, CHMM

Report reviewed by: Robert B. Walker, LPG

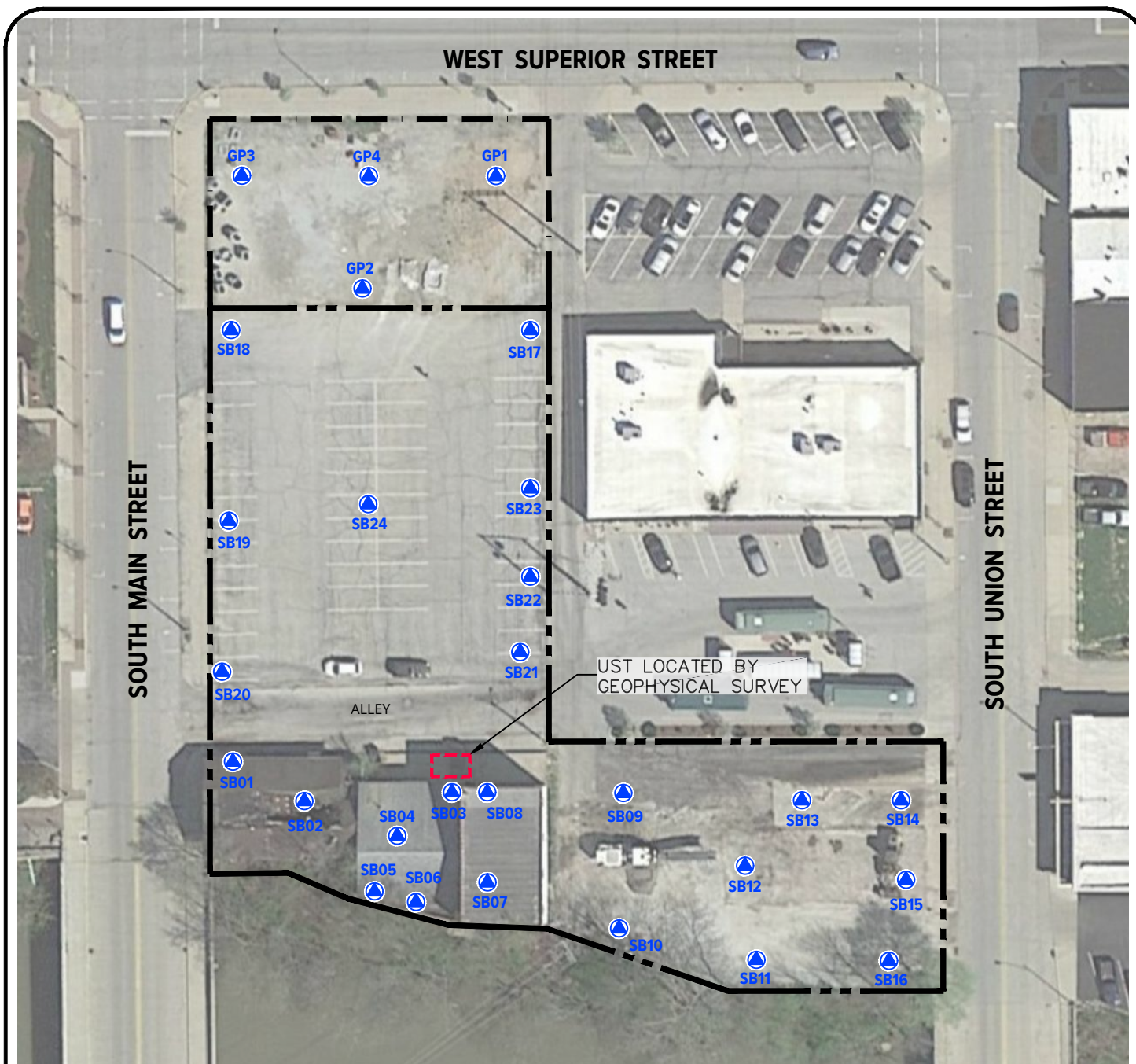
FIGURES

FIGURE 1 – PROPERTY LOCATION MAP

FIGURE 2 – SAMPLE LOCATION DIAGRAM

FIGURE 3 – SOIL ANALYTICAL RESULTS DIAGRAM

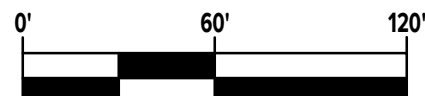
FIGURE 4 – GROUNDWATER ANALYTICAL RESULTS DIAGRAM



LEGEND

- APPROXIMATE PROPERTY BOUNDARY FOR GRANT FUNDED WORK
- APPROXIMATE PROPERTY BOUNDARY FOR PRIVATELY FUNDED WORK
- ▲ APPROXIMATE SOIL BORING LOCATION WITH TEMPORARY MONITORING WELL

NOTE:
DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO
WITH IMAGE DATE 4-11-2017 AND SITE RECONNAISSANCE.



GRAPHIC SCALE: 1" = 60'

No.	Revision Date	Date	1-4-18
		Drawn By	JAB
		Designed By	KK
		Scale	1" = 60'
		Project	073195.00.04B.006

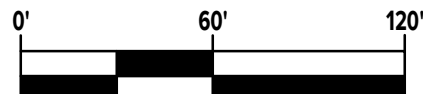
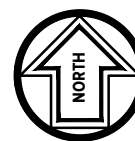
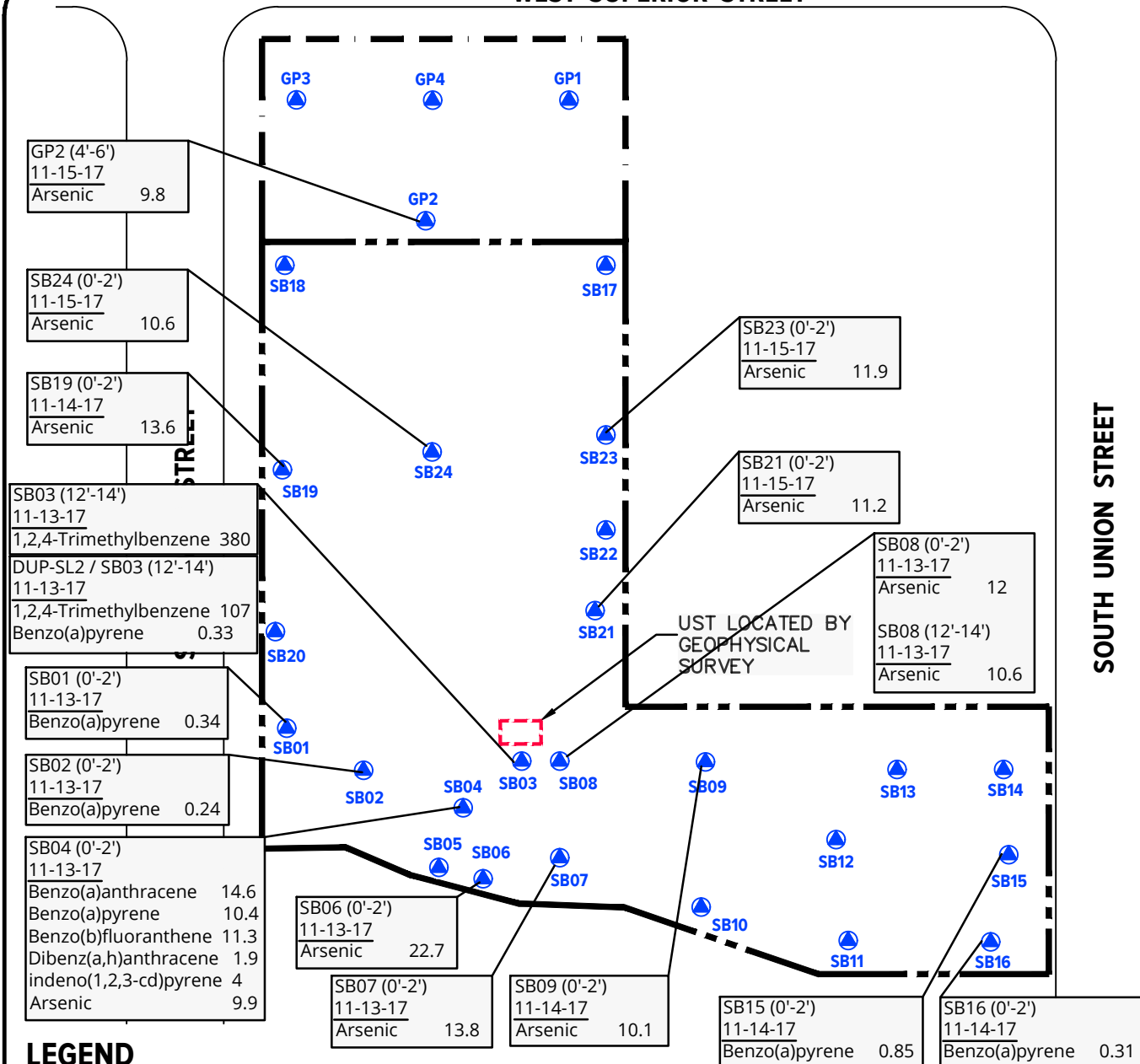
SAMPLE LOCATION DIAGRAM
CONVENTION CENTER - HOTEL SITE
225 AND 227 SOUTH UNION STREET & 226 AND
212 SOUTH MAIN STREET, AND PRIVATE PARCELS
KOKOMO, INDIANA



Figure No. 2

WEST SUPERIOR STREET

SOUTH UNION STREET



GRAPHIC SCALE: 1" = 60'

No.	Revision	Date	1-4-18
	Drawn By	JAB	
	Designed By	KK	
	Scale	1" = 60'	
	Project	073195.00.04B.006	

SOIL ANALYTICAL RESULTS DIAGRAM
CONVENTION CENTER - HOTEL SITE
225 AND 227 SOUTH UNION STREET & 226 AND
212 SOUTH MAIN STREET, AND PRIVATE PARCELS
KOKOMO, INDIANA

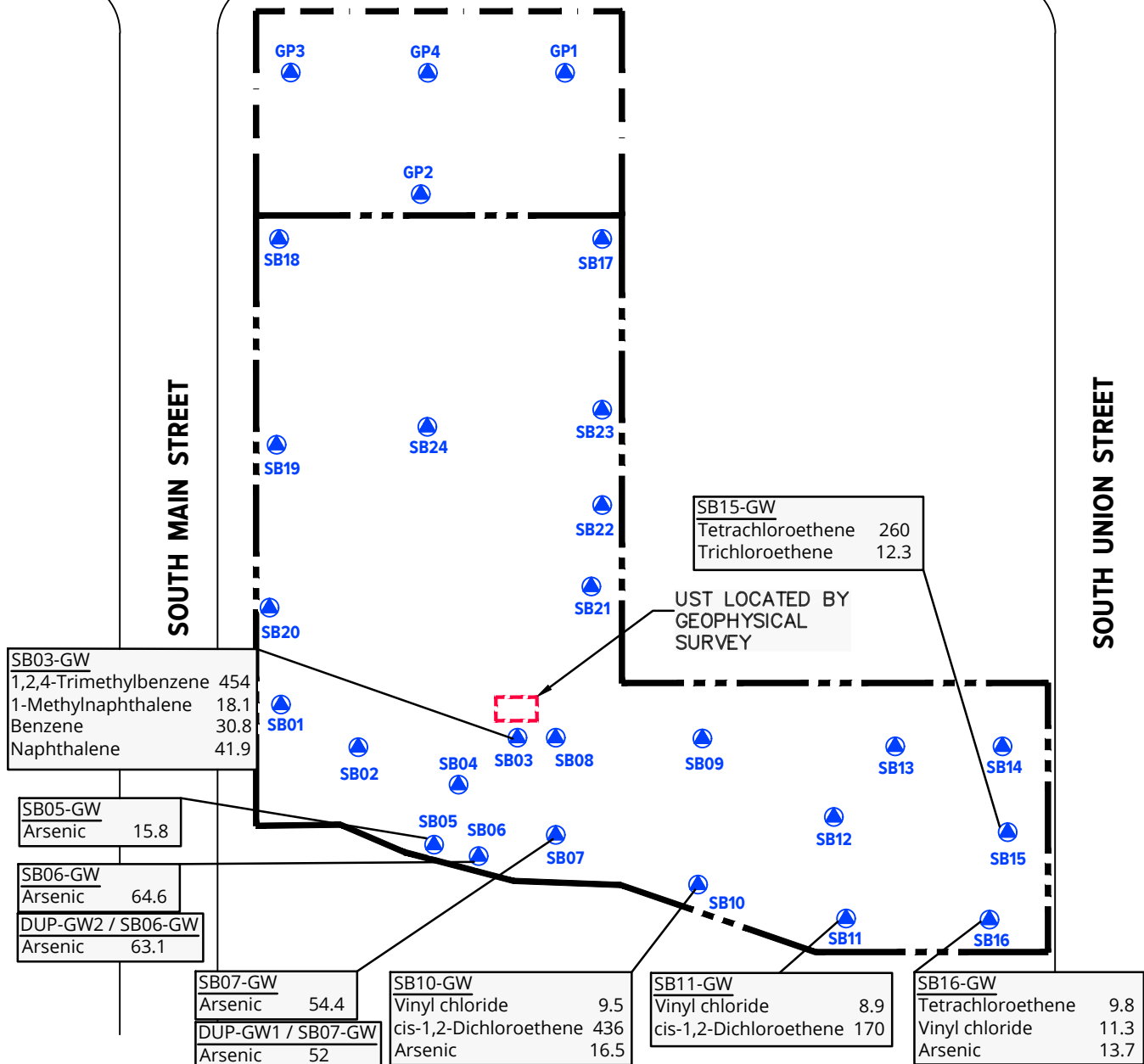


Figure No. 3

WEST SUPERIOR STREET

SOUTH MAIN STREET

SOUTH UNION STREET

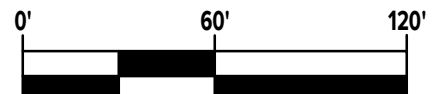


LEGEND

- APPROXIMATE PROPERTY BOUNDARY FOR GRANT FUNDED WORK
- APPROXIMATE PROPERTY BOUNDARY FOR PRIVATELY FUNDED WORK
- APPROXIMATE SOIL BORING LOCATION WITH TEMPORARY MONITORING WELL

NOTES:

1. DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO WITH IMAGE DATE 4-11-2017 AND SITE RECONNAISSANCE.
2. CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER ($\mu\text{g/L}$) AND EXCEED INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) REMEDIATION CLOSURE GUIDE (RCG) RESIDENTIAL TAP OR RESIDENTIAL VAPOR EXPOSURE SCREENING LEVELS.



GRAPHIC SCALE: 1" = 60'

No.	Revision Date	Date	1-4-18
		Drawn By	JAB
		Designed By	KK
		Scale	1" = 60'
		Project	073195.00.04B.006

GROUNDWATER ANALYTICAL RESULTS DIAGRAM
CONVENTION CENTER - HOTEL SITE
225 AND 227 SOUTH UNION STREET & 226 AND
212 SOUTH MAIN STREET, AND PRIVATE PARCELS
KOKOMO, INDIANA



Figure No. 4

TABLES

TABLE 1 – SOIL ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ANALYTICAL RESULTS



TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIALATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)											
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER		SAMPLE LOCATION	SB01	SB01	DUP-SL1/ SB01	SB02	SB02	SB03	DUP-SL2/ SB03	SB04	SB04	SB05	SB05
							SAMPLE DEPTH (ft. below grade)	(0-2)	(10-12)	(10-12)	(0-2)	(16-18)	(12-14)	(12-14)	(0-2)	(14-16)	(0-2)	(14-16)
VOCs																		
1,2,4-Trimethylbenzen	95-63-6	81	220	220	0.44		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	380	107	<0.0045	<0.0047	<0.0053	<0.0044	
1,3,5-Trimethylbenzen	108-67-8	180	180	180	3.4		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	147	51.3	<0.0049	<0.0047	<0.0053	<0.0044	
Benzene	71-43-2	17	51	1,800	0.051		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	0.63	0.34	<0.0049	<0.0047	<0.0053	<0.0044	
Ethylbenzene	100-41-4	81	250	480	16		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	55	17.5	<0.0049	<0.0047	<0.0053	<0.0044	
Isopropylbenzene (Cumene)	98-82-8	270	270	270	15		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	10.2	5.6	<0.0049	<0.0047	<0.0053	<0.0044	
Tetrachloroethene	127-18-4	110	170	170	0.045		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	<0.53	<0.59	0.0057	<0.0047	<0.0053	<0.0044	
Trichloroethene	79-01-6	5.7	19	95	0.036		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	<0.53	<0.59	<0.0049	<0.0047	<0.0053	<0.0044	
Xylene (Total)	1330-20-7	260	260	260	200		<0.013	<0.010	<0.010	<0.010	<0.011	86.2	21.1	<0.0098	<0.0095	<0.011	<0.0088	
n-Butylbenzene	104-51-8	110	110	110	64		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	14.5	10.5	<0.0049	<0.0047	<0.0053	<0.0044	
n-Hexane	110-54-3	140	140	140	210		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	16.3	10.1	<0.0049	<0.0047	<0.0053	<0.0044	
n-Propylbenzene	103-65-1	260	260	260	25		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	26.4	17.9	<0.0049	<0.0047	<0.0053	<0.0044	
p-Isopropyltoluene	99-87-6	NE	NE	NE	NE		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	3.4	2.1	<0.0049	<0.0047	<0.0053	<0.0044	
sec-Butylbenzene	135-98-8	150	150	150	120		<0.0063	<0.0050	<0.0052	<0.0052	<0.0053	3.6	2.6	<0.0049	<0.0047	<0.0053	<0.0044	
Other VOCs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	
PAHs																		
1-Methylnaphthalene	90-12-0	250	390	390	1.2			<0.031	<0.0063	<0.0062	<0.063	<0.0065	2	3.9	0.3	<0.0061	<0.027	<0.0060
2-Methylnaphthalene	91-57-6	340	3,000	6,800	3.7			<0.031	<0.0063	<0.0062	<0.063	<0.0065	4	8	0.48	<0.0061	<0.027	<0.0060
Acenaphthene	83-32-9	5,000	45,000	100,000	110			<0.031	<0.0063	<0.0062	<0.063	<0.0065	0.088	0.18	3	<0.0061	<0.027	<0.0060
Acenaphthylene	208-96-8	NE	NE	NE	NE			0.045	<0.0063	<0.0062	<0.063	<0.0065	0.025	0.051	0.056	<0.0061	<0.027	<0.0060
Anthracene	120-12-7	25,000	100,000	100,000	1,200			0.09	<0.0063	<0.0062	<0.063	<0.0065	0.15	0.32	5.9	<0.0061	0.039	<0.0060
Benzo(a)anthracene	56-55-3	2.2	29	1,600	0.85			0.35	<0.0063	<0.0062	0.22	<0.0065	0.32	0.66	14.6	<0.0061	0.088	<0.0060
Benzo(a)pyrene	50-32-8	0.22	2.9	160	4.7			0.34	<0.0063	<0.0062	0.24	<0.0065	0.16	0.33	10.4	<0.0061	0.076	<0.0060
Benzo(b)fluoranthene	205-99-2	2.2	29	1,600	8.2			0.26	<0.0063	<0.0062	0.2	<0.0065	0.14	0.29	11.3	<0.0061	0.061	<0.0060
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE			0.2	<0.0063	<0.0062	0.16	<0.0065	0.071	0.15	3.8	<0.0061	0.052	<0.0060
Benzo(k)fluoranthene	207-08-9	22	290	16,000	80			0.33	<0.0063	<0.0062	0.21	<0.0065	0.18	0.39	8.1	<0.0061	0.07	<0.0060
Chrysene	218-01-9	220	2,900	100,000	250			0.38	<0.0063	0.011	0.25	<0.0065	0.28	0.58	12.7	<0.0061	0.096	<0.0060
Dibenz(a,h)anthracene	53-70-3	0.22	2.9	160	2.6			0.073	<0.0063	<0.0062	<0.063	<0.0065	0.035	0.074	1.9	<0.0061	<0.027	<0.0060
Fluoranthene	206-44-0	3,400	30,000	68,000	1,800			0.76	<0.0063	0.0065	0.44	<0.0065	0.94	2	33.1	<0.0061	0.19	<0.0060
Fluorene	86-73-7	3,400	30,000	68,000	110			<0.031	<0.0063	<0.0062	<0.063	<0.0065	0.15	0.31	2.4	<0.0061	<0.027	<0.0060
Indeno(1,2,3-cd)pyrene	193-39-5	2.2	29	1,600	27			0.18	<0.0063	<0.0062	0.14	<0.0065	0.071	0.15	4	<0.0061	0.04	<0.0060
Naphthalene	91-20-3	53	170	3,100	0.11			<0.031	<0.0063	<0.0062	<0.063	<0.0065	5.1	11.1	1.5	<0.0061	0.027	<0.0060
Phenanthrene	85-01-8	NE	NE	NE	NE			0.39	<0.0063	<0.0062	0.22	<0.0065	0.74	1.6	20.3	<0.0061	0.16	<0.0060
Pyrene	129-00-0	2,500	23,000	51,000	260			0.56	<0.0063	0.0081	0.34	<0.0065	0.73	1.5	22	<0.0061	0.16	<0.0060
Other PAHs	CS	CS	CS	CS	CS	<RL		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	

See notes on page 13



TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)										
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	SB01	SB01	DUP-SL1/ SB01	SB02	SB02	SB03	DUP-SL2/ SB03	SB04	SB04	SB05	SB05
						SAMPLE DEPTH (ft. below grade)	(0-2)	(10-12)	(10-12)	(0-2)	(16-18)	(12-14)	(12-14)	(0-2)	(14-16)	(0-2)	(14-16)
						DATE COLLECTED	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17
Metals																	
Arsenic	7440-38-2	9.5	30	920	5.9		9	5.7	5.6	7.5	9.1	8.2	9.4	9.9	6.6	8.4	2.9
Barium	7440-39-3	21,000	100,000	100,000	1700		78.7	82.8	82.7	101	77.5	80.5	87	104	68.7	49.6	40
Cadmium	7440-43-9	99	980	1,900	7.5		0.89	<0.56	<0.55	3.4	<0.59	<0.65	<0.62	<0.56	<0.55	0.52	<0.55
Chromium	7440-47-3	NE	NE	NE	1,000,000		16.6	14	13.3	41.2	15.6	16.9	17.5	12	14.1	13.9	10.2
Chromium, Hexavalen	18540-29-9	4.2	63	2,700	0.14		NA	NA	NA	<48.9	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	400	800	1,000	270		67.3	9.3	12.6	148	9	19.5	23.2	25.1	7.9	140	7.6
Mercury	7439-97-6	3.1	3.1	3.1	2.1		<0.24	<0.25	<0.24	0.34	<0.25	<0.27	<0.26	0.6	<0.24	0.66	<0.24
Selenium	7782-49-2	550	5,800	9,800	5.3		2.3	2.2	2.2	2	3.3	2.7	2.7	2.1	2.1	1.9	1.3
Silver	7440-22-4	550	5,800	9,800	16		<0.56	<0.56	<0.55	0.92	<0.59	<0.65	<0.62	<0.56	<0.55	<0.51	<0.55
Other Metals	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

See notes on page 13



TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

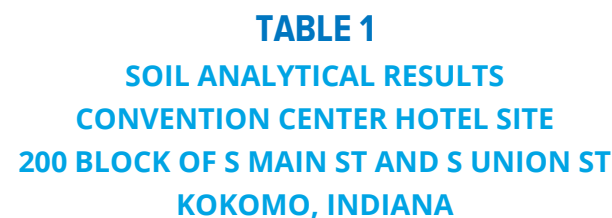
ANALYTE	CAS NUMBER	REMEDIALATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)										
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	SB06	SB06	SB07	SB07	SB08	SB08	SB09	SB09	SB10	SB10	SB11
						SAMPLE DEPTH (ft. below grade)	(0-2)	(16-18)	(0-2)	(14-16)	(0-2)	(12-14)	(0-2)	(12-14)	(0-2)	(14-16)	(0-2)
						DATE COLLECTED	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17
VOCs																	
1,2,4-Trimethylbenzen	95-63-6	81	220	220	0.44		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
1,3,5-Trimethylbenzen	108-67-8	180	180	180	3.4		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
Benzene	71-43-2	17	51	1,800	0.051		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
Ethylbenzene	100-41-4	81	250	480	16		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
Isopropylbenzene (Cumene)	98-82-8	270	270	270	15		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
Tetrachloroethene	127-18-4	110	170	170	0.045		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	0.14	<0.0050
Trichloroethene	79-01-6	5.7	19	95	0.036		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	0.03	<0.0050
Xylene (Total)	1330-20-7	260	260	260	200		<0.0092	<0.94	<0.0099	<0.010	<0.0099	<0.48	<0.0099	<0.0084	<0.011	<0.011	<0.010
n-Butylbenzene	104-51-8	110	110	110	64		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
n-Hexane	110-54-3	140	140	140	210		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
n-Propylbenzene	103-65-1	260	260	260	25		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
p-Isopropyltoluene	99-87-6	NE	NE	NE	NE		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
sec-Butylbenzene	135-98-8	150	150	150	120		<0.0046	<0.47	<0.0049	<0.0051	<0.0049	<0.24	<0.0049	<0.0042	<0.0053	<0.0056	<0.0050
Other VOCs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
PAHs																	
1-Methylnaphthalene	90-12-0	250	390	390	1.2		<0.027	0.074	0.014	<0.0062	<0.0057	<0.0061	0.015	<0.0055	<0.0055	<0.0062	<0.027
2-Methylnaphthalene	91-57-6	340	3,000	6,800	3.7		<0.027	<0.0061	0.034	<0.0062	0.0072	<0.0061	0.018	<0.0055	<0.0055	<0.0062	<0.027
Acenaphthene	83-32-9	5,000	45,000	100,000	110		<0.027	<0.0061	<0.0054	<0.0062	<0.0057	<0.0061	<0.0060	<0.0055	<0.0055	<0.0062	0.033
Acenaphthylene	208-96-8	NE	NE	NE	NE		<0.027	<0.0061	<0.0054	<0.0062	0.028	<0.0061	0.014	<0.0055	<0.0055	<0.0062	<0.027
Anthracene	120-12-7	25,000	100,000	100,000	1,200		<0.027	<0.0061	<0.0054	<0.0062	0.028	<0.0061	0.032	<0.0055	<0.0055	<0.0062	0.094
Benzo(a)anthracene	56-55-3	2.2	29	1,600	0.85		0.064	0.033	0.017	<0.0062	0.12	<0.0061	0.11	<0.0055	0.012	<0.0062	0.22
Benzo(a)pyrene	50-32-8	0.22	2.9	160	4.7		0.065	<0.0061	0.018	<0.0062	0.16	<0.0061	0.1	<0.0055	0.016	<0.0062	0.19
Benzo(b)fluoranthene	205-99-2	2.2	29	1,600	8.2		0.055	<0.0061	0.016	<0.0062	0.11	<0.0061	0.087	<0.0055	0.013	<0.0062	0.16
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE		0.057	<0.0061	0.019	<0.0062	0.1	<0.0061	0.061	<0.0055	0.017	<0.0062	0.13
Benzo(k)fluoranthene	207-08-9	22	290	16,000	80		0.062	<0.0061	0.022	<0.0062	0.13	<0.0061	0.088	<0.0055	0.013	<0.0062	0.18
Chrysene	218-01-9	220	2,900	100,000	250		0.077	0.031	0.026	<0.0062	0.11	<0.0061	0.11	<0.0055	0.017	<0.0062	0.27
Dibenz(a,h)anthracene	53-70-3	0.22	2.9	160	2.6		<0.027	<0.0061	<0.0054	<0.0062	0.047	<0.0061	0.02	<0.0055	<0.0055	<0.0062	0.038
Fluoranthene	206-44-0	3,400	30,000	68,000	1,800		0.13	<0.0061	0.031	<0.0062	0.19	<0.0061	0.24	<0.0055	0.022	<0.0062	0.6
Fluorene	86-73-7	3,400	30,000	68,000	110		<0.027	0.0064	<0.0054	<0.0062	<0.0057	<0.0061	<0.0060	<0.0055	<0.0055	<0.0062	0.03
Indeno(1,2,3-cd)pyrene	193-39-5	2.2	29	1,600	27		0.04	<0.0061	0.013	<0.0062	0.088	<0.0061	0.057	<0.0055	0.011	<0.0062	0.11
Naphthalene	91-20-3	53	170	3,100	0.11		<0.027	<0.0061	0.018	<0.0062	0.012	<0.0061	0.014	<0.0055	<0.0055	<0.0062	<0.027
Phenanthrene	85-01-8	NE	NE	NE	NE		0.077	0.011	0.017	<0.0062	0.11	<0.0061	0.13	<0.0055	0.012	<0.0062	0.47
Pyrene	129-00-0	2,500	23,000	51,000	260		0.1	0.012	0.027	<0.0062	0.18	<0.0061	0.19	<0.0055	0.02	<0.0062	0.51
Other PAHs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL



TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)										
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT / COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	SB06	SB06	SB07	SB07	SB08	SB08	SB09	SB09	SB10	SB10	SB11
						SAMPLE DEPTH (ft. below grade)	(0-2)	(16-18)	(0-2)	(14-16)	(0-2)	(12-14)	(0-2)	(12-14)	(0-2)	(14-16)	(0-2)
						DATE COLLECTED	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17
Metals																	
Arsenic	7440-38-2	9.5	30	920	5.9		22.7	3.5	13.8	8.3	12	10.6	10.1	5.6	8.4	7.8	4.3
Barium	7440-39-3	21,000	100,000	100,000	1700		56.8	53	70.5	72.3	70.1	69.9	95.7	45.6	43.2	75.1	30.5
Cadmium	7440-43-9	99	980	1,900	7.5		<0.54	<0.58	0.6	<0.56	0.74	<0.51	0.72	<0.54	<0.54	<0.60	<0.45
Chromium	7440-47-3	NE	NE	NE	1,000,000		19.5	11.9	11.2	14.9	15.4	14.6	16.4	12.8	10.3	15.6	10.5
Chromium, Hexavalen	18540-29-9	4.2	63	2,700	0.14		<2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	400	800	1,000	270		92.4	7.3	16.8	9.7	75.2	9.4	150	7.2	20.7	9.2	25
Mercury	7439-97-6	3.1	3.1	3.1	2.1		<0.22	<0.24	<0.21	<0.24	1.7	<0.24	<0.25	<0.22	<0.23	<0.24	<0.21
Selenium	7782-49-2	550	5,800	9,800	5.3		17.3	1.5	2.1	2.4	4.9	2.4	<1.2	<1.1	<1.1	<1.2	<0.91
Silver	7440-22-4	550	5,800	9,800	16		<0.54	<0.58	<0.52	<0.56	<0.52	<0.51	<0.60	<0.54	<0.54	<0.60	<0.45
Other Metals	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

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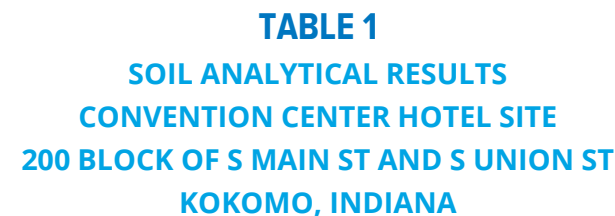
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TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)										
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	SB11	SB12	SB12	SB13	SB13	SB14	SB14	SB15	SB15	SB16	SB16
						SAMPLE DEPTH (ft. below grade)	(14-16)	(0-2)	(10-12)	(0-2)	(26-28)	(0-2)	(6-8)	(0-2)	(8-10)	(0-2)	(10-12)
						DATE COLLECTED	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17
Metals							4.2	7.1	5.4	8.6	6.1	7.3	6.8	5.4	4.7	4.8	8.6
Arsenic	7440-38-2	9.5	30	920	5.9		70	71.2	53.4	59.4	41.7	62	34.3	101	55.1	23.1	73.6
Barium	7440-39-3	21,000	100,000	100,000	1700		<0.64	<0.55	<0.54	<0.51	<0.47	<0.58	<0.48	<0.52	<0.57	<0.48	<0.53
Cadmium	7440-43-9	99	980	1,900	7.5		11.9	12.9	14.4	13.5	10.5	16	11.3	14.3	14.1	12.3	13.3
Chromium	7440-47-3	NE	NE	NE	1,000,000		NA	NA	NA	NA	NA	<9.7	NA	NA	NA	NA	NA
Chromium, Hexavalen	18540-29-9	4.2	63	2,700	0.14		7.1	94.3	8.9	112	5.7	19.5	6.8	18.4	6.2	20.4	9.5
Lead	7439-92-1	400	800	1,000	270		<0.26	<0.23	<0.24	<0.22	<0.22	<0.25	<0.24	0.33	<0.23	<0.22	<0.24
Mercury	7439-97-6	3.1	3.1	3.1	2.1		<1.3	<1.1	<1.1	<1.0	<0.94	<1.2	<0.96	<1.0	<1.1	<0.96	<1.1
Selenium	7782-49-2	550	5,800	9,800	5.3		<0.64	<0.55	<0.54	<0.51	<0.47	<0.58	<0.48	<0.52	<0.57	<0.48	<0.53
Silver	7440-22-4	550	5,800	9,800	16		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Other Metals	CS	CS	CS	CS	CS	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

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TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)										
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	SB17	SB17	SB18	SB18	SB19	SB19	SB20	SB20	SB21	SB21	SB22
						SAMPLE DEPTH (ft. below grade)	(0-2)	(16-18)	(0-2)	(16-18)	(0-2)	(14-16)	(0-2)	(24-26)	(0-2)	(12-14)	(0-2)
						DATE COLLECTED	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/15/17	11/15/17
Metals																	
Arsenic	7440-38-2	9.5	30	920	5.9		8.9	7.5	5.7	9.3	13.6	6.3	7.4	7.4	11.2	5.7	8.6
Barium	7440-39-3	21,000	100,000	100,000	1700		66.5	39.9	104	22.1	45.5	28.3	65.5	47.1	54.8	25.2	85.1
Cadmium	7440-43-9	99	980	1,900	7.5		<0.53	<0.49	<0.58	<0.52	<0.48	<0.52	<0.53	<0.49	<0.49	<0.50	<0.56
Chromium	7440-47-3	NE	NE	NE	1,000,000		18.9	10.4	14.4	8.5	13.3	10.1	11.7	10.7	14.3	11.7	16
Chromium, Hexavalen	18540-29-9	4.2	63	2,700	0.14		<2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	400	800	1,000	270		25.2	6.1	54.9	6.2	7.3	5.7	15.5	6.4	25.2	5.8	23.8
Mercury	7439-97-6	3.1	3.1	3.1	2.1		0.27	<0.21	<0.23	<0.22	<0.23	<0.21	<0.24	<0.22	0.38	<0.21	<0.23
Selenium	7782-49-2	550	5,800	9,800	5.3		<1.1	<0.97	<1.2	<1.0	2.8	1.8	1.7	2.1	2.2	1.7	1.8
Silver	7440-22-4	550	5,800	9,800	16		<0.53	<0.49	<0.58	<0.52	<0.48	<0.52	<0.53	<0.49	<0.49	<0.50	<0.56
Other Metals	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

See notes on page 13



TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIALATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)										
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER		SAMPLE LOCATION	SB22	DUP-SL3/ SB22	SB23	SB23	SB24	SB24	GP1	GP1	GP2	GP2
							SAMPLE DEPTH (ft. below grade)	(28-30)	(28-30)	(0-2)	(16-18)	(0-2)	(12-14)	(0-2)	(12-14)	(0-2)	(4-6)
VOCs																	
1,2,4-Trimethylbenzen	95-63-6	81	220	220	0.44		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
1,3,5-Trimethylbenzen	108-67-8	180	180	180	3.4		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
Benzene	71-43-2	17	51	1,800	0.051		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
Ethylbenzene	100-41-4	81	250	480	16		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	0.015	<0.0044	
Isopropylbenzene (Cumene)	98-82-8	270	270	270	15		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
Tetrachloroethene	127-18-4	110	170	170	0.045		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
Trichloroethene	79-01-6	5.7	19	95	0.036		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
Xylene (Total)	1330-20-7	260	260	260	200		<0.0083	<0.0086	<0.0088	<0.0089	<0.0088	<0.0079	<0.011	<0.0091	0.084	<0.0087	
n-Butylbenzene	104-51-8	110	110	110	64		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
n-Hexane	110-54-3	140	140	140	210		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
n-Propylbenzene	103-65-1	260	260	260	25		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
p-Isopropyltoluene	99-87-6	NE	NE	NE	NE		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
sec-Butylbenzene	135-98-8	150	150	150	120		<0.0042	<0.0043	<0.0044	<0.0044	<0.0044	<0.0039	<0.0053	<0.0045	<0.0047	<0.0044	
Other VOCs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	
PAHs																	
1-Methylnaphthalene	90-12-0	250	390	390	1.2		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	<0.027	<0.0059	
2-Methylnaphthalene	91-57-6	340	3,000	6,800	3.7		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	<0.027	<0.0059	
Acenaphthene	83-32-9	5,000	45,000	100,000	110		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	<0.027	<0.0059	
Acenaphthylene	208-96-8	NE	NE	NE	NE		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	<0.027	<0.0059	
Anthracene	120-12-7	25,000	100,000	100,000	1,200		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	0.051	<0.0059	
Benzo(a)anthracene	56-55-3	2.2	29	1,600	0.85		<0.0056	<0.0055	<0.0057	<0.0055	0.0064	<0.0055	0.047	<0.0055	0.17	<0.0059	
Benzo(a)pyrene	50-32-8	0.22	2.9	160	4.7		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	0.042	<0.0055	0.18	<0.0059	
Benzo(b)fluoranthene	205-99-2	2.2	29	1,600	8.2		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	0.035	<0.0055	0.14	<0.0059	
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	0.037	<0.0055	0.13	<0.0059	
Benzo(k)fluoranthene	207-08-9	22	290	16,000	80		<0.0056	<0.0055	<0.0057	<0.0055	0.0067	<0.0055	0.041	<0.0055	0.18	<0.0059	
Chrysene	218-01-9	220	2,900	100,000	250		<0.0056	<0.0055	<0.0057	<0.0055	0.0082	<0.0055	0.056	<0.0055	0.19	<0.0059	
Dibenz(a,h)anthracene	53-70-3	0.22	2.9	160	2.6		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	0.047	<0.0059	
Fluoranthene	206-44-0	3,400	30,000	68,000	1,800		<0.0056	<0.0055	<0.0057	<0.0055	0.014	<0.0055	0.12	<0.0055	0.38	<0.0059	
Fluorene	86-73-7	3,400	30,000	68,000	110		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	<0.027	<0.0059	
Indeno(1,2,3-cd)pyrene	193-39-5	2.2	29	1,600	27		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	0.11	<0.0059	
Naphthalene	91-20-3	53	170	3,100	0.11		<0.0056	<0.0055	<0.0057	<0.0055	<0.0056	<0.0055	<0.027	<0.0055	<0.027	<0.0059	
Phenanthrene	85-01-8	NE	NE	NE	NE		<0.0056	<0.0055	<0.0057	<0.0055	0.0069	<0.0055	0.087	<0.0055	0.2	<0.0059	
Pyrene	129-00-0	2,500	23,000	51,000	260		<0.0056	<0.0055	<0.0057	<0.0055	0.012	<0.0055	0.091	<0.0055	0.29	<0.0059	
Other PAHs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	

See notes on page 13



TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIALATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)									
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT / COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	SB22	DUP-SL3/ SB22	SB23	SB23	SB24	SB24	GP1	GP1	GP2	GP2
						SAMPLE DEPTH (ft. below grade)	(28-30)	(28-30)	(0-2)	(16-18)	(0-2)	(12-14)	(0-2)	(12-14)	(0-2)	(4-6)
						DATE COLLECTED	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17
Metals																
Arsenic	7440-38-2	9.5	30	920	5.9		6.4	7	11.9	5.6	10.6	5.3	9.4	6	6.5	9.8
Barium	7440-39-3	21,000	100,000	100,000	1700		43	41.8	64.6	34.7	54.3	22.5	121	26.1	85.8	50.9
Cadmium	7440-43-9	99	980	1,900	7.5		<0.51	<0.52	<0.55	<0.50	<0.53	<0.52	0.98	<0.49	<0.48	<0.54
Chromium	7440-47-3	NE	NE	NE	1,000,000		13.2	11.1	18.3	13	13	10.1	11.6	10.1	9.8	17.4
Chromium, Hexavalent	18540-29-9	4.2	63	2,700	0.14		NA	NA	<2.3	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	400	800	1,000	270		5.6	5.4	11.3	5.2	13.2	4.8	132	6	42.4	7.6
Mercury	7439-97-6	3.1	3.1	3.1	2.1		<0.22	<0.22	<0.23	<0.22	<0.21	<0.23	0.47	<0.21	0.54	<0.24
Selenium	7782-49-2	550	5,800	9,800	5.3		1.9	1.8	2.5	1.5	1.8	1.5	1.8	2.7	1.2	1.9
Silver	7440-22-4	550	5,800	9,800	16		<0.51	<0.52	<0.55	<0.50	<0.53	<0.52	<0.51	<0.49	0.67	<0.54
Other Metals	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

See notes on page 13

TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIALATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)					
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	GP3	GP3	DUP-SL/ GP3	GP4	GP4	
						SAMPLE DEPTH (ft. below grade)	(0-2)	(12-14)	(12-14)	(0-2)	(4-6)	
						DATE COLLECTED	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	
VOCs												
1,2,4-Trimethylbenzen	95-63-6	81	220	220	0.44		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
1,3,5-Trimethylbenzen	108-67-8	180	180	180	3.4		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
Benzene	71-43-2	17	51	1,800	0.051		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
Ethylbenzene	100-41-4	81	250	480	16		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
Isopropylbenzene (Cumene)	98-82-8	270	270	270	15		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
Tetrachloroethene	127-18-4	110	170	170	0.045		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
Trichloroethene	79-01-6	5.7	19	95	0.036		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
Xylene (Total)	1330-20-7	260	260	260	200		<0.0098	<0.0084	<0.0080	<0.0098	<0.0092	
n-Butylbenzene	104-51-8	110	110	110	64		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
n-Hexane	110-54-3	140	140	140	210		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
n-Propylbenzene	103-65-1	260	260	260	25		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
p-Isopropyltoluene	99-87-6	NE	NE	NE	NE		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
sec-Butylbenzene	135-98-8	150	150	150	120		<0.0049	<0.0042	<0.0040	<0.0049	<0.0046	
Other VOCs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	
PAHs												
1-Methylnaphthalene	90-12-0	250	390	390	1.2		<0.0054	<0.0055	<0.0055	<0.0064	<0.0059	
2-Methylnaphthalene	91-57-6	340	3,000	6,800	3.7		<0.0054	<0.0055	<0.0055	<0.0064	<0.0059	
Acenaphthene	83-32-9	5,000	45,000	100,000	110		<0.0054	<0.0055	<0.0055	<0.0064	<0.0059	
Acenaphthylene	208-96-8	NE	NE	NE	NE		<0.0054	<0.0055	<0.0055	<0.0064	<0.0059	
Anthracene	120-12-7	25,000	100,000	100,000	1,200	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Benzo(a)anthracene	56-55-3	2.2	29	1,600	0.85	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Benzo(a)pyrene	50-32-8	0.22	2.9	160	4.7	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Benzo(b)fluoranthene	205-99-2	2.2	29	1,600	8.2	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Benzo(k)fluoranthene	207-08-9	22	290	16,000	80	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Chrysene	218-01-9	220	2,900	100,000	250	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Dibenz(a,h)anthracene	53-70-3	0.22	2.9	160	2.6	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Fluoranthene	206-44-0	3,400	30,000	68,000	1,800	0.0055	<0.0055	<0.0055	<0.0064	<0.0059		
Fluorene	86-73-7	3,400	30,000	68,000	110	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Indeno(1,2,3-cd)pyrene	193-39-5	2.2	29	1,600	27	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Naphthalene	91-20-3	53	170	3,100	0.11	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Phenanthrene	85-01-8	NE	NE	NE	NE	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Pyrene	129-00-0	2,500	23,000	51,000	260	<0.0054	<0.0055	<0.0055	<0.0064	<0.0059		
Other PAHs	CS	CS	CS	CS	CS	<RL	<RL	<RL	<RL	<RL		

See notes on page 13



TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹					CHEMICAL ANALYSES RESULTS (mg/kg)				
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	GP3	GP3	DUP-SL/ GP3	GP4	GP4
						SAMPLE DEPTH (ft. below grade)	(0-2)	(12-14)	(12-14)	(0-2)	(4-6)
						DATE COLLECTED	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17
Metals											
Arsenic	7440-38-2	9.5	30	920	5.9		1.8	7.5	8.3	8.4	6.8
Barium	7440-39-3	21,000	100,000	100,000	1700		6.6	41.4	27.8	102	69.1
Cadmium	7440-43-9	99	980	1,900	7.5		<0.50	<0.49	<0.49	<0.62	<0.54
Chromium	7440-47-3	NE	NE	NE	1,000,000		3.3	10.3	10.2	16.7	16.8
Chromium, Hexavalen	18540-29-9	4.2	63	2,700	0.14		NA	NA	NA	NA	NA
Lead	7439-92-1	400	800	1,000	270		4.9	5.2	4.7	14.9	6.9
Mercury	7439-97-6	3.1	3.1	3.1	2.1		<0.21	<0.22	<0.22	<0.25	<0.23
Selenium	7782-49-2	550	5,800	9,800	5.3		<1.0	1.8	1.4	1.5	1.7
Silver	7440-22-4	550	5,800	9,800	16		<0.50	<0.49	<0.49	<0.62	<0.54
Other Metals	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL

See notes on page 13

TABLE 1
SOIL ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

Notes:

Only analytes measured at concentrations above their respective Method Reporting Limit in at least one sample are listed.

¹Screening Levels taken from IDEM Remediation Closure Guide, Appendix A, Table A-6, 2017. Results above RL are shown in **bold**. Results exceeding one or more criteria are shaded, as are the criteria which were exceeded.

VOCs -Volatile Organic Compounds, PAHs - Polynuclear Aromatic Hydrocarbons.

Refer to the analytical report for the full list of VOC, PAH, and Metal analytes.

CS - Criterion is specific to individual constituent.

<RL - concentrations of all non-listed constituents were below their respective Method Reporting

NA - Not applicable or not analyzed (not in assessment scope).

NE - Not established.



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIALATION CLOSURE GUIDE SCREENING LEVELS (µg/L) ¹				CHEMICAL ANALYSES RESULTS (µg/L)									
		RESIDENTIAL- TAP	RESIDENTIAL VAPOR EXPOSURE	COMMERCIAL VAPOR EXPOSURE	SAMPLE LOCATION	SB01-GW	SB02-GW	SB03-GW	SB04-GW	SB05-GW	SB06-GW	DUP-GW2/ SB06-GW	SB07-GW	DUP-GW1/ SB07-GW	
					DATE COLLECTED	11/21/2017	11/21/2017	11/21/2017	11/20/2017	11/20/2017	11/21/2017	11/21/17	11/21/2017	11/21/17	
VOCs															
1,2,4-Trimethylbenzene	95-63-6	15	NE	NE		<5.0	<5.0	454	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	108-67-8	120	NE	NE		<5.0	<5.0	6.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	90-12-0	11	NE	NE		NA	NA	18.1	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	36	NE	NE		NA	NA	19.9	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	5.0	28	120		<5.0	<5.0	30.8	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	100-41-4	700	NE	NE		<5.0	<5.0	94	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene (Cumene)	98-82-8	450	NE	NE		<5.0	<5.0	25.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether	1634-04-4	140	NE	NE		<4.0	<4.0	<4.0	<4.0	<4.0	5.6	4.9	<4.0	<4.0	<4.0
Methylene Chloride	75-09-2	5.0	NE	NE		8.6	15.4	10.7	9.6	23.8	9.4	<5.0	5.8	<5.0	<5.0
Naphthalene	91-20-3	1.7	110	460		<5.0	<5.0	41.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	127-18-4	5.0	110	470		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	108-88-3	1,000	NE	NE		<5.0	<5.0	8.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	79-01-6	5.0	9.1	38		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	75-01-4	2.0	2.1	35		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (Total)	1330-20-7	10,000	NE	NE		<10.0	<10.0	151	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
cis-1,2-Dichloroethene	156-59-2	70	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene	104-51-8	1,000	NE	NE		<5.0	<5.0	19.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	110-54-3	1,500	NE	NE		<5.0	<5.0	17	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	103-65-1	660	NE	NE		<5.0	<5.0	71.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	135-98-8	2,000	NE	NE		<5.0	<5.0	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
All VOCs	CS	CS	CS	CS								<RL	<RL		
PAHs															
Benzo(a)anthracene	56-55-3	0.12	NE	NE		<0.10	<0.10	NA	<0.10	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10
All PAHs	CS	CS	CS	CS		<RL	<RL	NA	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Metals															
Arsenic	7440-38-2	10	NE	NE		<10.0	<10.0	NA	<10.0	15.8	64.6	63.1	54.4	52	
Barium	7440-39-3	2,000	NE	NE		112	256	NA	229	305	268	272	245	243	
Cadmium	7440-43-9	5.0	NE	NE		<2.0	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chromium	7440-47-3	100	NE	NE		10.1	15.3	NA	10.8	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lead	7439-92-1	15	NE	NE		<10.0	12.5	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Other Metals	CS	CS	CS	CS	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	

See Notes on Page 5



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIALATION CLOSURE GUIDE SCREENING LEVELS (µg/L) ¹				CHEMICAL ANALYSES RESULTS (µg/L)									
		RESIDENTIAL TAP	RESIDENTIAL VAPOR EXPOSURE	COMMERCIAL VAPOR EXPOSURE	SAMPLE LOCATION	SB08-GW	SB09-GW	SB010-GW	SB011-GW	SB012-GW	SB013-GW	SB014-GW	SB015-GW	SB016-GW	
					DATE COLLECTED	11/21/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
VOCs															
1,2,4-Trimethylbenzene	95-63-6	15	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	108-67-8	120	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	90-12-0	11	NE	NE		<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	36	NE	NE		<10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	5.0	28	120		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	100-41-4	700	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene (Cumene)	98-82-8	450	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether	1634-04-4	140	NE	NE		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methylene Chloride	75-09-2	5.0	NE	NE		8.6	<5.0	7.5	7.0	7.8	6.9	5.2	<5.0	6.8	
Naphthalene	91-20-3	1.7	110	460		<1.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	127-18-4	5.0	110	470		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	260	9.8	
Toluene	108-88-3	1,000	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	79-01-6	5.0	9.1	38		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12.3	<5.0	
Vinyl chloride	75-01-4	2.0	2.1	35		<2.0	<2.0	9.5	8.9	<2.0	<2.0	<2.0	<2.0	11.3	
Xylene (Total)	1330-20-7	10,000	NE	NE		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
cis-1,2-Dichloroethene	156-59-2	70	NE	NE		<5.0	<5.0	436	170	22.6	<5.0	<5.0	13.1	69.4	
n-Butylbenzene	104-51-8	1,000	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	110-54-3	1,500	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	103-65-1	660	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	135-98-8	2,000	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
All VOCs	CS	CS	CS	CS											
PAHs															
Benzo(a)anthracene	56-55-3	0.12	NE	NE		NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
All PAHs	CS	CS	CS	CS		NA	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Metals															
Arsenic	7440-38-2	10	NE	NE		NA	<10.0	16.5	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	13.7
Barium	7440-39-3	2,000	NE	NE		NA	267	235	220	202	265	238	122	229	
Cadmium	7440-43-9	5.0	NE	NE		NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.2
Chromium	7440-47-3	100	NE	NE		NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	14.7
Lead	7439-92-1	15	NE	NE		NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Other Metals	CS	CS	CS	CS	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	

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See Notes on Page 5

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIALTION CLOSURE GUIDE SCREENING LEVELS (µg/L) ¹			SAMPLE LOCATION	CHEMICAL ANALYSES RESULTS (µg/L)								
		RESIDENTIAL TAP	RESIDENTIAL VAPOR EXPOSURE	COMMERCIAL VAPOR EXPOSURE		SB017-GW	SB-18-GW	SB-19-GW	SB-20-GW	SB-21-GW	SB-22-GW	SB-23-GW	SB-24-GW	
					DATE COLLECTED	11/20/2017	11/17/17	11/17/2017	11/17/2017	11/17/2017	11/17/2017	11/17/2017	11/17/2017	
VOCs														
1,2,4-Trimethylbenzene	95-63-6	15	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,3,5-Trimethylbenzene	108-67-8	120	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1-Methylnaphthalene	90-12-0	11	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene	91-57-6	36	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	71-43-2	5.0	28	120		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Ethylbenzene	100-41-4	700	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Isopropylbenzene (Cumene)	98-82-8	450	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Methyl-tert-butyl ether	1634-04-4	140	NE	NE		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Methylene Chloride	75-09-2	5.0	NE	NE		8.8	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Naphthalene	91-20-3	1.7	110	460		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Tetrachloroethene	127-18-4	5.0	110	470		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Toluene	108-88-3	1,000	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Trichloroethene	79-01-6	5.0	9.1	38		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Vinyl chloride	75-01-4	2.0	2.1	35		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Xylene (Total)	1330-20-7	10,000	NE	NE		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
cis-1,2-Dichloroethene	156-59-2	70	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
n-Butylbenzene	104-51-8	1,000	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
n-Hexane	110-54-3	1,500	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
n-Propylbenzene	103-65-1	660	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
sec-Butylbenzene	135-98-8	2,000	NE	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
All VOCs	CS	CS	CS	CS			<RL							
PAHs														
Benzo(a)anthracene	56-55-3	0.12	NE	NE		<0.10	<0.10	<0.10	<0.10	<0.10	0.1	<0.10	<0.10	
All PAHs	CS	CS	CS	CS		<RL	NA	<RL	<RL	<RL	<RL	<RL	<RL	
Metals														
Arsenic	7440-38-2	10	NE	NE		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Barium	7440-39-3	2,000	NE	NE		53.9	63.3	39.4	190	140	114	108	45.3	
Cadmium	7440-43-9	5.0	NE	NE		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Chromium	7440-47-3	100	NE	NE		<10.0	<10.0	<10.0	<10.0	28.9	14.4	71.1	<10.0	
Lead	7439-92-1	15	NE	NE		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Other Metals	CS	CS	CS	CS	<RL	NA	<RL	<RL	<RL	<RL	<RL	<RL		

See Notes on Page 5



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIALTION CLOSURE GUIDE SCREENING LEVELS (µg/L) ¹			SAMPLE LOCATION	CHEMICAL ANALYSES RESULTS (µg/L)					
		RESIDENTIAL TAP	RESIDENTIAL VAPOR EXPOSURE	COMMERCIAL VAPOR EXPOSURE		GP1-GW	GP2-GW	GP2-GW	DUP-GW/ GP2-GW	GP3-GW	DUP-GW/ GP3-GW
VOCs											
1,2,4-Trimethylbenzene	95-63-6	15	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
1,3,5-Trimethylbenzene	108-67-8	120	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
1-Methylnaphthalene	90-12-0	11	NE	NE		NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	36	NE	NE		NA	NA	NA	NA	NA	NA
Benzene	71-43-2	5.0	28	120		<5.0	<5.0	NA	<5.0	<5.0	NA
Ethylbenzene	100-41-4	700	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
Isopropylbenzene (Cumene)	98-82-8	450	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
Methyl-tert-butyl ether	1634-04-4	140	NE	NE		<4.0	<4.0	NA	<4.0	<4.0	NA
Methylene Chloride	75-09-2	5.0	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
Naphthalene	91-20-3	1.7	110	460		<5.0	<1.7	NA	<5.0	<5.0	NA
Tetrachloroethene	127-18-4	5.0	110	470		<5.0	<5.0	NA	<5.0	<5.0	NA
Toluene	108-88-3	1,000	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
Trichloroethene	79-01-6	5.0	9.1	38		<5.0	<5.0	NA	<5.0	<5.0	NA
Vinyl chloride	75-01-4	2.0	2.1	35		<2.0	<2.0	NA	<2.0	<2.0	NA
Xylene (Total)	1330-20-7	10,000	NE	NE		<10.0	<10.0	NA	<10.0	<10.0	NA
cis-1,2-Dichloroethene	156-59-2	70	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
n-Butylbenzene	104-51-8	1,000	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
n-Hexane	110-54-3	1,500	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
n-Propylbenzene	103-65-1	660	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
sec-Butylbenzene	135-98-8	2,000	NE	NE		<5.0	<5.0	NA	<5.0	<5.0	NA
All VOCs	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	NA
PAHs											
Benzo(a)anthracene	56-55-3	0.12	NE	NE		<0.10	NA	<0.10	NA	<0.10	<0.10
All PAHs	CS	CS	CS	CS		<RL	NA	NA	NA	NA	<RL
Metals											
Arsenic	7440-38-2	10	NE	NE		<10.0	NA	<10.0	NA	<10.0	<10.0
Barium	7440-39-3	2,000	NE	NE		56.6	NA	71.8	NA	58.4	63.8
Cadmium	7440-43-9	5.0	NE	NE		<2.0	NA	<2.0	NA	<2.0	<2.0
Chromium	7440-47-3	100	NE	NE		<10.0	NA	<10.0	NA	<10.0	<10.0
Lead	7439-92-1	15	NE	NE		<10.0	NA	<10.0	NA	<10.0	<10.0
Other Metals	CS	CS	CS	CS	<RL	NA	NA	NA	NA	<RL	

See Notes on Page 5

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CONVENTION CENTER HOTEL SITE
200 BLOCK OF S MAIN ST AND S UNION ST
KOKOMO, INDIANA

Notes:

Only analytes measured at concentrations above their respective Method Reporting Limit in at least one sample are listed.

¹Screening Levels taken from IDEM Remediation Closure Guide, Appendix A, Table A-6, 2017. Results above RL are shown in **bold**. Results exceeding one or more criteria are shaded, as are the criteria which were exceeded.

VOCs -Volatile Organic Compounds; PAHs - Polynuclear Aromatic Hydrocarbons.

Refer to the analytical report for the full list of VOC, PAH, and Metal analytes.

CS - Criterion is specific to individual constituent.

<RL - concentrations of all non-listed constituents were below their respective Method Reporting

NA - Not applicable or not analyzed (not in assessment scope).

NE - Not established.

APPENDIX A

SAMPLING AND ANALYSIS PLAN



SAMPLING AND ANALYSIS PLAN

CONVENTION CENTER-HOTEL SITE
225 SOUTH UNION STREET, 227 SOUTH UNION STREET, 226 SOUTH MAIN STREET
AND 212 SOUTH MAIN STREET

KOKOMO, INDIANA

SME Project Number: 073195.00.04B.006

October 2, 2017

Prepared for: The City of Kokomo, Cooperative Agreement # BF00E01545



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FIGURES:

FIGURE NO. 1 – USGS 7.5 MINUTE TOPOGRAPHIC MAP

FIGURE NO. 2 – BORING LOCATION DIAGRAM

TABLE:

TABLE 1 –PROPOSED SAMPLE COLLECTION AND ANALYSES

APPENDIX A

HEALTH AND SAFETY PLAN

1. INTRODUCTION

SME's project team has prepared this Sampling and Analysis Plan (SAP) based on a review of Phase I Environmental Site Assessments (ESAs) conducted at the following sites that collectively comprise the Convention Center-Hotel Site property: 225 South Union Street, the former Kokomo Cover and Trim (227 South Union Street), the Armstrong Landon Parking Lot (approximately 212 South Main Street), and 226 South Main Street, Kokomo, Howard County, Indiana, hereinafter referred to as "the Property".

The general location of the Property is shown in Figure 1. The City of Kokomo intends evaluate the suspected environmental concerns prior to its future development for commercial use. The recognized environmental conditions associated with the Property were identified in the Phase I ESAs prepared by SME, and summarized below:

225 South Union Street

- The historic presence of a blacksmith, automotive repair, automotive painting, automotive body shop operations, printing, laundry, and manufacturing on the Property.
- The potential for an undetected release from the 55-gallon drums of flammable liquid to the floor drains located inside the building.
- The surface staining beneath the eastern air compressor located inside the building.
- The potential for environmental impact from unreported and/or undetected releases and subsequent migration of hazardous substances and/or petroleum products onto the Property from current and/or historical uses of properties to the north, east, and west of the Property. These include retail paint sales, furniture stripping, natural gas and oil operations, machine shop, battery service, steam laundry, repair shops, automotive repair shops, and UST operations.

Kokomo Cover and Trim, 227 South Union Street

- The historic presence of machine shops, welding, battery service, automotive repair, and automotive body shop operations on the Property.
- The potential for environmental impact from unreported and/or undetected releases and subsequent migration of hazardous substances and/or petroleum products onto the Property from current and/or historical uses of properties to the north, northeast, east, west, and northwest of the Property. These include blacksmith, automotive repair, automotive painting, automotive body shop operations, printing, laundry, manufacturing, stamping, retail paint sales, furniture stripping, natural gas and oil operations, repair shops, and UST operations.

226 South Main Street

- Current furniture stripping operations at the Property and historic furniture stripping, natural gas operations, repair shops, UST operations, and automotive body shop.
- Historic operations on surrounding properties, including machine shops, battery service, automotive repair, printing, automotive body shop operations, steam laundry/dry cleaners, manufacturing, and UST operations.

Armstrong Landon Property Parking Lot (approximately 212 South Main Street)

- A gasoline tank that was located on the South Main Street parcel from 1948 to at least 1953.
- The potential for environmental impact on the Property, from the migration of undetected and/or unreported releases of hazardous substances and/or petroleum products from historical use of the surrounding sites.

The work and all documents prepared during this scope of work are being funded through the City of Kokomo, which received a Community-Wide U.S. Environmental Protection Agency (US EPA) Hazardous Substance and Petroleum Grant (US EPA Grant No. BF00E01545). The objective of the site assessment is to evaluate the environmental concerns and assess the significance of any environmental issues. The following sections present a brief Property history, strategies and procedures for sampling, chemical analyses of samples, data evaluation, reporting, and the estimated project schedule. The US EPA conditionally approved the Quality Assurance Project Plan (QAPP) Update Revision 0 on February 05, 2016.

2. PROJECT BACKGROUND

2.1 PROPERTY DESCRIPTION

The Property consists of four parcels, which consist of approximately 1.7 acres of land developed with an approximately 5,800 square foot commercial building. The remainder of the Property is developed with asphalt and gravel paved areas. The Property is located in a commercial district of downtown Kokomo.. The approximate coordinates of the Property are 40° 29'05.38" North latitude and 86° 07' 52.03" West longitude.

2.2 LAND USE

The Property was developed for commercial/industrial use by the late 1800s. Uses have included blacksmithing, automotive repair, automotive painting, automotive body shop operations, printing, laundry, machine shops, welding, battery service, furniture stripping, manufacturing. The 225 and 227 South Union Street sites were razed in early 2017. The 226 South Main Street site was occupied until the summer of 2017. The Property is currently vacant.

2.3 OBJECTIVES

The Property will be redeveloped and the assessment activities described in this SAP are designed to evaluate the environmental conditions of the Property to support the following:

- Evaluate the significance of each of the potential issues identified by previous Phase I Environmental Site Assessments.
- If contamination is present, evaluate whether current environmental conditions warrant remediation.

These Property assessment goals will be achieved through accomplishment of the following:

- Conduct limited subsurface activities to assess potential environmental contamination associated with the historic uses of the Property.
- If contamination is discovered, determine if regulated constituents are present at concentrations greater than IDEM's Remediation Closure Guide (RCG) Screening Levels.
- Generate sufficient data to determine if the future use as a commercial facility would warrant corrective action to meet risk-based and regulatory goals.

3. SAMPLING PLAN

SME will use a judgmental sampling design to evaluate the environmental issues identified by SME and address the IDEM requirements. The sampling plan includes the following: 1) geophysical survey 2) a summary of soil and groundwater sampling locations and sampling rationales, and 3) descriptions of procedures and methods for field sampling. A summary of the soil and groundwater samples to be collected as part of this sampling and analysis program is provided in Table 1.

SME will contact Indiana 811 to mark public off-site utilities and those in bordering right-of-ways.

3.1 GEOPHYSICAL SURVEY

SME will monitor the completion of a ground penetrating radar (GPR) and electromagnetic (EM) conductivity survey to determine if the two suspected underground storage tank (UST) systems remains at the Property. The GPR/ EM survey will be completed on the eastern portion of the Armstrong Landon site and the northeastern portion of the 226 South Main Street site. Prism Geoimaging will complete the GPR/EM survey prior to completion of the soil boring activities.

3.2 SUMMARY OF SAMPLING LOCATIONS

The subsurface investigation to evaluate the soil and groundwater quality at the Property will include the collection and analysis of up to 52 soil samples and 26 groundwater samples from 26 soil borings. The soil borings will be advanced to a depth of approximately 30 feet below ground surface (ft-bgs) or 5 feet below the groundwater table, whichever is shallower. The borings will be completed as temporary monitoring wells to facilitate the collection of groundwater quality samples. The proposed sampling locations are illustrated on Figure 2. Although the general soil boring layout has been developed to focus on areas most likely to have been adversely impacted by former operations, the location of each soil boring will be determined in the field based on access and field conditions. The proposed sample locations and rationale are provided below:

- Eight soil borings (8 temporary monitoring wells) will be advanced in the northern portion of the Property in the area of the Armstrong Landon Property Parking Lot (approximately 212 South Main Street) with at least one of the borings completed near the historic location of an underground tank.
- Ten soil borings (10 temporary monitoring wells) will be advanced in the southwestern portion of the Property in the area of 226 South Main Street, with at least one of the borings completed near the historic location of an underground tank.
- Eight soil borings (8 temporary monitoring wells) will be advanced in the southeastern portion of the Property in the area of the 225 and 227 South Union Street sites.

3.3 SAMPLING PROCEDURES AND METHODS

Soil and groundwater sampling and quality assurance/quality control (QA/QC) procedures and methods will be in accordance with IDEM RCG, as described in the QAPP Revision 0, which was conditionally approved by the US EPA on February 05, 2016.

3.3.1 SOIL SAMPLING

Each soil boring will be advanced and soil samples collected continuously to the desired depth using a push probe drill rig equipped with 5-foot long, nominal 2-inch diameter Macro-core® samplers. The samplers shall be equipped with new plastic internal liners prior to collection of each sample. Based on

SME's review of Indiana Department of Natural Resources (IDNR) water well logs in the area of the Property, groundwater will be encountered between 15 and 25 ft-bgs.

Soil samples from a minimum of each 2-foot interval will be collected, inspected and field screened for potential submittal to the laboratory for analysis. Each sample interval will be split into two aliquots with one aliquot retained for inspection and field screening (field aliquot) and the other to be retained for potential submittal for laboratory analysis (laboratory aliquot). Samples retained for potential volatile organic compound (VOC) analysis will be collected directly from the Macro-core® sampler in accordance with US EPA Method 5035A (Indiana Modified).

The field aliquot will be placed into a re-sealable plastic bag, described using the Unified Soil Classification System (USCS) and inspected for physical evidence of contaminants such as staining, odors, free product, etc. Soil headspace will be monitored in the field using a photoionization detector (PID).

The soil samples retained from each soil boring for laboratory analysis will include the surface interval and the subsurface interval exhibiting the greatest potential for being impaired (i.e., highest PID reading, staining, odors, etc.) based on field screening and/or field inspection. If no indications of impairment are noted, the samples retained for analysis will include the surface interval and the interval approximately 2 ft. above the water table. If the soil boring encounters fill material, the deeper soil sample may be substituted with a sample from the interval of native soil immediately beneath the fill material.

3.3.2 GROUNDWATER SAMPLING

If groundwater is encountered and conditions permit (i.e. enough water is produced), groundwater samples will be collected from the 26 temporary monitoring wells. The locations of the proposed wells are provided on Figure 2. Each temporary well will be constructed of 1-inch diameter polyvinyl chloride (PVC) riser and a 5 or 10-foot factory slotted screen. The groundwater samples will be collected using a low flow/low stress sampling methodology. After the samples are collected, a licensed water-well driller will return to the Property to properly abandon the temporary wells.

3.3.3 SAMPLING QUALITY CONTROL/QUALITY ASSURANCE

Soil and groundwater samples will be placed in the appropriate laboratory-supplied containers, logged on a chain of custody, placed in a cooler with ice to maintain a temperature of approximately 4° Celsius, and transported to Pace Analytical Services for analysis. QA/QC samples will be collected as described in the QAPP. A summary of the QA/QC samples to be collected is presented in Table 1.

3.3.4 WASTE MANAGEMENT

Investigation derived wastes will be handled as described in the QAPP (SOP 12, Investigated Derived Wastes).

4. ANALYSIS PLAN

4.1 SOIL & GROUNDWATER ANALYSIS

The target analytes for the soil and groundwater samples were selected based on the project goals and the suspected historical chemical use at the Property and in the surrounding area. The specific analytes for each sampling location are presented in Table 1.

The target analytes for the soil and groundwater samples will include:

- VOCs – USEPA Method 5035A (soil sampling/preparation) and 8260 (analysis),
- Polynuclear aromatic hydrocarbons (PAHs) – USEPA Method 8270 (soil) and 8270 SIM (groundwater),
- Resource Conservation & Recovery Act (RCRA) Metals: arsenic, barium, cadmium, chromium (including hexavalent chromium), lead, mercury, selenium and silver – USEPA Methods 6010, 7196 and 7470,

The samples will be analyzed within the established holding times using U.S. EPA-approved Methods as described in the EPA publication, Test Methods for Evaluation of Solid Wastes, Physical/Chemical Methods (SW-846, 3rd Edition, Update III). The laboratory QA/QC will be performed consistent with those described in the project QAPP, and laboratory will comply with the IDEM RCG “full data package” criteria.

5. DATA EVALUATION AND REPORTING

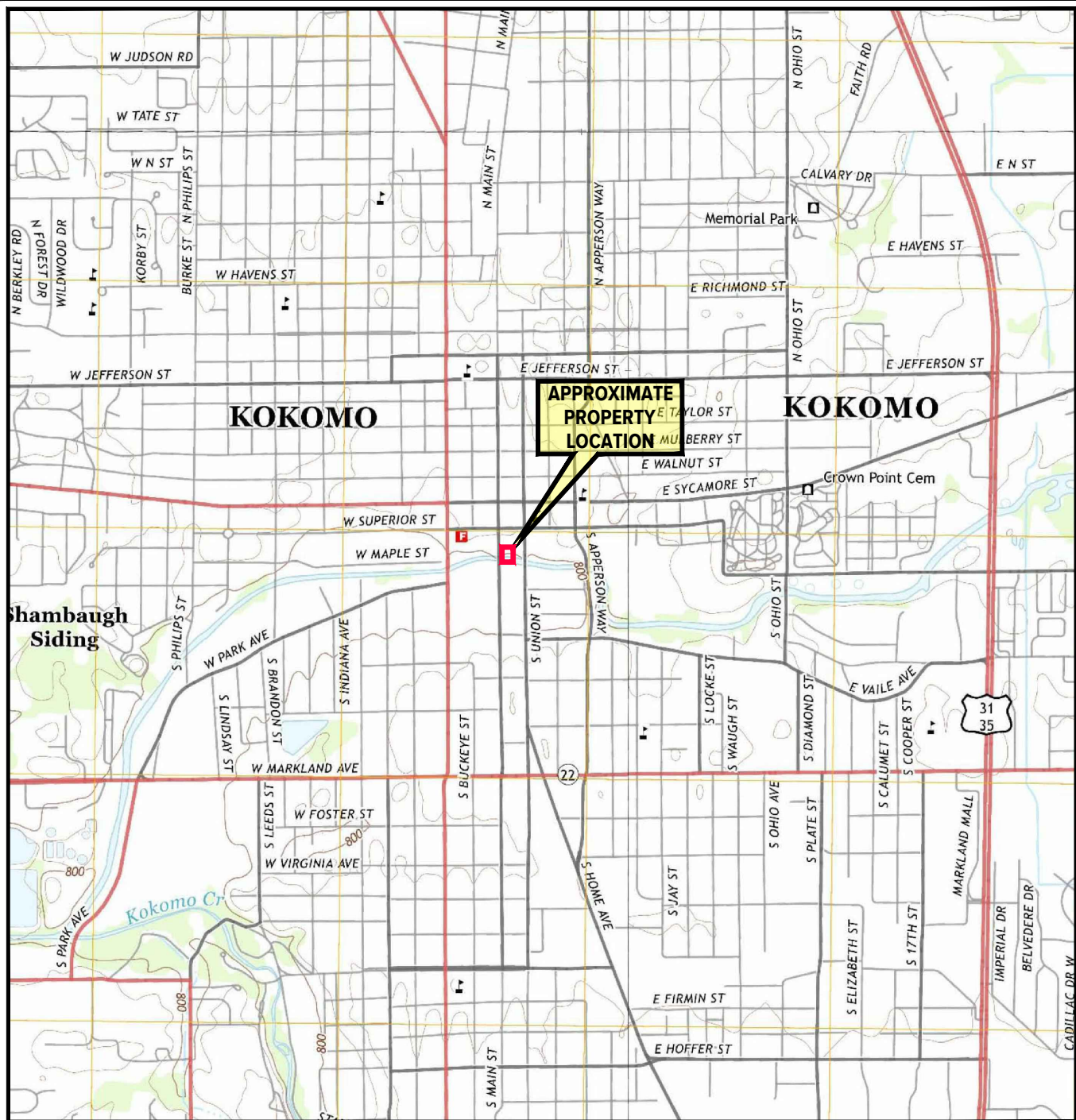
Data collected during this Property assessment will be evaluated as described in Section 4.0 – Data Verification/Validation and Usability of the project QAPP. Following data review, verification, and validation, SME will prepare summary report of the results. The report will include details of the activities performed, procedures followed, chemical analyses results, and recommendations. The report will include a sampling location diagram, tabulated analytical results, soil boring logs, a copy of the laboratory analytical report for all samples collected, and a copy of the chain-of-custody records.

6. ESTIMATED SCHEDULE

The environmental activities described in this SAP will be performed according to the schedule presented below. This schedule is in weeks relative to USEPA's and the City of Kokomo's approval of the final SAP.

- Field sampling Weeks 3 – 5
- Laboratory analyses Week 6 through Week 8
- Data evaluation and reporting Weeks 9 – 11

FIGURES



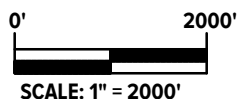
USGS QUADRANGLE(S) REFERENCED

KOKOMO WEST (IN) TOPO QUAD - 2013

MIAMI (IN) TOPO QUAD - 2013

KOKOMO EAST (IN) TOPO QUAD - 2013

GALVESTON (IN) TOPO QUAD - 2013



No.	Revision Date	Date	9-28-17
		Drawn By	JAB
		Designed By	CGS
		Scale	1" = 2000'
		Project	073195.00.04B.006

**PROPERTY LOCATION MAP
CONVENTION CENTER - HOTEL SITE
225 AND 227 SOUTH UNION STREET &
226 AND 212 SOUTH MAIN STREET
KOKOMO, INDIANA**



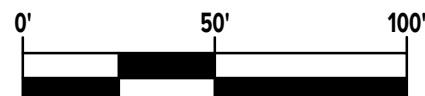
Figure No. 1



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- ▲ APPROXIMATE SOIL BORING LOCATION WITH TEMPORARY MONITORING WELL
- GEOPHYSICAL SURVEY AREA

NOTE:
DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO
WITH IMAGE DATE 4-11-2017 AND SITE RECONNAISSANCE.



GRAPHIC SCALE: 1" = 50'

No.	Revision Date	Date
		9-28-17
	Drawn By	JAB
	Designed By	CGS
	Scale	1" = 50'
	Project	073195.00.04B.006

**SAMPLE LOCATION DIAGRAM
CONVENTION CENTER - HOTEL SITE
225 AND 227 SOUTH UNION STREET &
226 AND 212 SOUTH MAIN STREET
KOKOMO, INDIANA**



Figure No. 2

TABLE

TABLE 1
SUMMARY OF ANALYSES
PROPOSED CONVENTION CENTER/HOTEL SITE
200 BLOCK OF SOUTH MAIN STREET AND SOUTH UNION STREET
KOKOMO, INDIANA
SME PROJECT NO. 073195.00.04B.006

Sample Target	Number of Borings	Boring Depth (feet bgs)	Target Sample		Media	Analytes		
			Anticipated Sample Depth (feet bgs)	Rationale		VOCs	PAHs	Metals
Potential migration of impact from off-site sources and/or historical use of the northern portion of the Property (212 South Main Street)	8	25	0-2 & Highest PID	Direct Contact and zone of highest expected impact.	Soil	16	16	16
			20-25	Evaluate possible groundwater impact.	Groundwater	8	8	8
Potential migration of impact from off-site sources and/or historical use of the southwestern portion of the Property (226 South Main Street)	10	25	0-2 & Highest PID	Direct Contact and zone of highest expected impact.	Soil	20	20	20
			20-25	Evaluate possible groundwater impact.	Groundwater	10	10	10
Potential migration of impact from off-site sources and/or historical use of the southeastern portion of the Property (225 and 227 South Union Street)	8	25	0-2 & Highest PID	Direct Contact and zone of highest expected impact.	Soil	16	16	16
			20-25	Evaluate possible groundwater impact.	Groundwater	8	8	8
Subtotals								
					Groundwater	26	26	26
					Soil	52	52	52
QA/QC Samples	Trip Blanks				water	2	0	0
					Soil	3	0	0
	Duplicate				Soil	3	3	3
					Groundwater	2	2	2
	Matrix Spike / Matrix Spike Duplicate				Soil	3	3	3
					Groundwater	2	2	2
	Total					93	88	88

Notes:

Equipment blank (EB) not needed for soil which are collected from disposable acetate liners. Soil duplicate will be collected if soil type allows for homogenization.

VOCs - Volatile Organic Compounds

PAHs - Polycyclic Aromatic Hydrocarbons

Metals - As, Ba, Cd, Cr*, Pb, Se, Ag, Hg.

*CrVI analysis of up to 3 soil samples if total chrome values exceed IDEM RCG Commercial Screening Level for CrVI

APPENDIX A

HEALTH & SAFETY PLAN



SITE INFORMATION AND HEALTH/SAFETY CHECKLIST

This form shall be completed prior to field activities and signed by the Project Manager and field personnel. The original shall be filed in the project's blue file. A copy of this form shall be taken into the field by field personnel.

Project Name: Convention Center/Hotel Site SME Project No.: 073195.00.04B.006

Client Contact Name: Jennifer Jordan Phone No.: (765) 456-7380

SME Project Manager: Chris Shaw

Site Name: 226 South Main Street

Site Location: 225 S. UNION STREET, 227 S. UNION STREET, 226 S. MAIN STREET AND 212 S. MAIN STREET, Kokomo, IN

Site Conditions/Use/Planned Work Activities: Phase II - Soil and Groundwater sampling

Estimated Start Date: TBD

Estimated Duration of Project: 1 week

GENERAL EMERGENCY INSTRUCTIONS & INFORMATION

Attach map and directions from site to nearest hospital.

Name of Nearest Hospital: St. Joseph Hospital

Hospital Address: 1907 W. Sycamore Street, Kokomo, IN

Hospital Telephone: 765-456-5433

Emergency Number: 911

In case of an emergency, please follow the general instructions below:

1. Cease Operation
2. Call Emergency Number: 911
3. Contact Project Manager Cell phone: Chris Shaw 317-531-8556
4. If Project Manager is not available, contact Team Leader: Jason Cheney 317-876-0200

ON SITE PERSONNEL

SME Personnel: TBD

SME Site Safety Officer, if applicable: _____

Site Contact/Affiliation: Jenny Jordan, City of KokomoSite Contact Phone Number: (765) 456-7380Subcontractors and Phone Numbers: NAOther Contractors/Operations: NAAuthorized Visitor(s): NA

POTENTIAL HAZARDS

CHEMICAL SAFETY HAZARDS

1. Potential Chemical Source(s): Historical commercial/industrial operations: Furniture Stripping

USTs, automotive repair, body shop, machine shops, etc.

2. Potential Chemical Hazards: VOCs, SVOCs, Metals

3. Immediately Dangerous to Life and Health (IDLH) exposure hazards present?

☐ Yes ☒ No ☐ Unknown

4. If Chemical Concentrations are known at the site:

a. Above residential criteria? ☐ Yes ☐ No ☒ Unknown

b. Above industrial criteria? ☐ Yes ☐ No ☒ Unknown

5. Potential Exposure Routes (check all that apply):

☒ Inhalation of Volatiles

☒ Inhalation of Particulates

☒ Ingestion

☒ Dermal Contact

Append available health and safety information for constituents of concern associated with this site that personnel could encounter during work, as published by the National Institute of Occupational Safety and Health (NIOSH) or as found on International Chemical Safety Cards, Safety Data Sheets, Agency for Toxic Substances and Disease Registry (ATSDR) ToxFaq fact sheets, etc.

PHYSICAL SAFETY HAZARDS

Potential Safety Hazards (check all that apply)

☒ Slip/Trip/Fall	☐ Electrical Hazard	☒ Mechanical/Machinery
☐ Lock Out Tag Out	☐ Excavations	☐ Confined Space
☒ Heat Stress	☒ Cold Stress	☒ Noise
☐ Fall Hazard	☒ Other (specify) <u>traffic</u>	

REQUIRED PERSONAL PROTECTIVE EQUIPMENT AND SAFETY EQUIPMENT

1. Specific Personal Protective Equipment Needed:

☒ Hard Hat	☒ Safety Glasses	☒ Safety-Toe Boots	☒ Gloves (specify type): <u>nitrile</u>
☐ Disposable Suit (specify type): _____			
☒ First Aid Kit	☒ Fire Extinguisher	☐ Safety Harness	☐ Other (specify): _____
2. Respirator required? ☐ Yes ☒ No

Type of filter cartridges _____/organic vapor cartridge.

3. Monitoring Required? ☐ Yes ☒ No (If yes, specify type) _____

☒ Photoionization Detector	☐ Multiple Gas Meter	☐ Combustible Gas Meter
☐ Colorimetric/Drager sorbent tubes (if needed based on PID readings) ☐ Other (specify): _____		

Attach applicable Job Hazard (JHA) forms for the work tasks to be completed. Refer to chemical fact sheets for Action Levels or Permissible Exposure Limits associated with monitoring results. Use appended forms to record calibration and instrument readings if instrument does not have integrated logging function.

Checklist Completed by:	<u>Christopher Shaw</u>	Date:	<u>9/26/17</u>
Checklist Approved by:	<u>Christopher Shaw</u>	Date:	<u>9/26/17</u>
Project Manager Review:	<u>Christopher Shaw</u>	Date:	<u>9/26/17</u>

ACKNOWLEDGMENT OF PROJECT HEALTH AND SAFETY PLAN (HASP) AND SITE INFORMATION AND HEALTH/SAFETY CHECKLIST

SME personnel working at the site or visiting the site must review the Site Information and Health/Safety Checklist, and sign below acknowledging that they understand the hazards and will abide by the requirements of the checklist.

NAME	SIGNATURE	DATE	COMPANY NAME

APPENDIX A

JOB HAZARD ANALYSIS FORMS AND HEALTH & SAFETY INFORMATION FOR CONSTITUENTS OF CONCERN



Job Hazard Analysis

Project Task

Environmental Direct-Push Soil Borings

SME Group:

ENVIRONMENTAL

Task Equipment:

Direct-push boring rig, buckets, decontamination brushes, trowel/spoon, zip top plastic bags, utility knife, sample containers, groundwater pump, well and pump tubing, disposable groundwater filters, labels, cooler, sampling log, chain-of-custody form, multiple gas meter, photoionization detector, and environmental sampling kit, (vapor implants, sample tubing, and tracer gas kit, as applicable)

Personal Protective Equipment Required:

Hard hat, safety glasses, safety boots, protective gloves, hearing protection, high visibility vest, appropriate clothing for weather, flame-retardant clothing (as needed)

Sequence of Project Task	Potential Hazards	Procedure(s) or Protective Measure(s)
1. Mobilize/demobilize to project site	A. Struck by and Mechanical - traffic hazards	A. Inspect vehicle prior to departure and make sure equipment/systems are fully operational. Wear safety belt while in transit. Practice safe driving techniques (do not speed, do not tailgate, signal when turning or changing lanes) and obey traffic signals/signs. Review weather forecast and plan appropriately. Do not talk or text on cell phone while vehicle is in motion.
2. Advance soil borings for environmental assessment using direct push drilling equipment. 3. Collect soil, groundwater, and/or soil gas samples for chemical analysis.	B. Fire/explosion - underground utilities and fuel lines	B. Verify clear of underground utilities with site owner. Contact 811 or a private utility locating service for utility clearance. Conduct GPR clearance of boring locations. Verify utility marks consistent with positive response status.
	C. Slip, trip and fall	C. Keep work area clean – good housekeeping. Be aware of surroundings (e.g. pits, ruts, jagged debris, etc.)
	D. Mechanical - moving parts on direct-push equipment	D. Stay clear of moving equipment. Do not wear loose clothes or other items that can get caught on the percussion hammer, mast, or other machine equipment. Keep clear line of sight with operator.
	E. Electrical shock – hazard from mast contacting overhead utilities	E. Look up prior to raising drill mast. Maintain at least 20-feet clearance between overhead lines and the drill mast. Wear FR suits and use grounding rod and cable when boring near electrical transmission lines and within or near electrical substations.
	F. Extreme temperature weather	F. Dress appropriately for conditions. Hot weather - Monitor for heat exhaustion and heat stroke. Take frequent breaks in cool area. Cold weather - Monitor for frostbite and hypothermia. Take frequent breaks in a warm area.
	G. Ergonomic - back/muscle strain from lifting heavy drill rods	G. Use appropriate lifting techniques.
	H. Noise – from equipment operation	H. Wear ear plugs or muffs.



Job Hazard Analysis

Project Task

Environmental Direct-Push Soil Borings

SME Group:

ENVIRONMENTAL

	I. Struck by - other moving vehicles on site	I. Wear high visibility vest.
	J. Struck by - overhead equipment and falling tools	J. Wear hard hat, safety glasses, and safety boots.
	K. Struck by - flying debris	K. Wear hard hat and safety glasses.
	L. Mechanical - pinch points from equipment/tools	L. Wear protective gloves.
	M. Chemical toxic – hazards associated with exposure to contaminated soils/groundwater	M. Wear appropriate personal protective equipment, including gloves, during sample collection. Conduct air monitoring for contaminants of concern. Wash hands/face before eating, drinking, smoking, chewing, etc. and at the end of each shift. Refer to the project Health and Safety Checklist for project specific chemicals of concern and the appropriate procedures and protective measures.
	N. Chemical toxic – hazards associated with exposure to preservatives used in sample containers	N. Wear appropriate personal protective equipment, including gloves, during sample container handling and sample collection. Wash hands/face before eating, drinking, smoking, chewing, etc. and at the end of each shift. Refer to the safety data sheets for common preservatives and the appropriate procedures and protective measures (1).
	O. Mechanical – laceration/cut hazard from use of utility knife to open core liners	O. Wear protective gloves while cutting open liner sleeve. Use cutting motion away from body.

1. Include the sample container preservation safety data sheets in Appendix A of the Health and Safety Checklist.



Job Hazard Analysis

Project Task

Groundwater Monitoring Well Purging and Sampling

SME Group:

ENVIRONMENTAL

Task Equipment:

Groundwater pump, well tubing, pump tubing, batteries, zip top plastic bags, disposable filters, buckets, multi-parameter water quality meter, sample containers, labels, cooler, sampling log, chain-of-custody form, multiple gas meter, photoionization detector, and environmental sampling kit

Personal Protective Equipment Required:

Hard hat, safety glasses, safety boots, protective gloves, high visibility vest (Class II or Class III), appropriate clothing for weather

Sequence of Project Task

Potential Hazards

Procedure(s) or Protective Measure(s)

1. Mobilize/demobilize to project site

- A. Struck by and Mechanical -traffic hazards

- A. Inspect vehicle prior to departure and make sure equipment/systems are fully operational. Wear safety belt while in transit. Practice safe driving techniques (do not speed, do not tailgate, signal when turning or changing lanes) and obey traffic signals/signs. Review weather forecast and plan appropriately. Do not talk or text on cell phone while vehicle is in motion.

2. Open monitoring wells and gauge water levels.

- B. Slip, trip and fall.

- B. Keep work area clean – good housekeeping. Be aware of surroundings (e.g. pits, ruts, jagged debris, etc.).

3. Purge groundwater and collect groundwater samples for chemical analysis.

- C. Chemical toxic – potential hazards from contacting contaminated groundwater

- C. Wash hands/face before eating, drinking, smoking, chewing, etc. and at the end of each shift. Refer to the project health and safety checklist for project specific chemicals of concern.

- D. Chemical toxic – hazards associated with exposure to preservatives used in sample containers

- D. Wear appropriate personal protective equipment, including gloves, during sample container handling and sample collection. Wash hands/face before eating, drinking, smoking, chewing, etc. and at the end of each shift. Refer to the safety data sheets for common preservatives and the appropriate procedures and protective measures (1).

- E. Struck by - other moving vehicles on site.

- E. Wear high visibility vest.

- F. Electrical shock – hazard from use of pump and marine battery

- F. Wear gloves when connecting pump to battery. Ensure positive and negative power clamps are affixed to the appropriate, respective terminals on the battery

- G. Extreme temperature/ weather

- G. Dress appropriately for conditions. Hot weather- Monitor for heat exhaustion and heat stroke. Take frequent breaks in cool area. Cold weather - Monitor for frostbite and hypothermia. Take frequent breaks in a warm area

1. Include the sample container preservation safety data sheets in Appendix A of the Health and Safety Checklist.

APPENDIX B

MAP AND DIRECTIONS FROM SITE TO NEAREST MEDICAL FACILITY



A 226 S Main St, Kokomo, IN 46901
B 1907 W Sycamore St, Kokomo, IN 46901

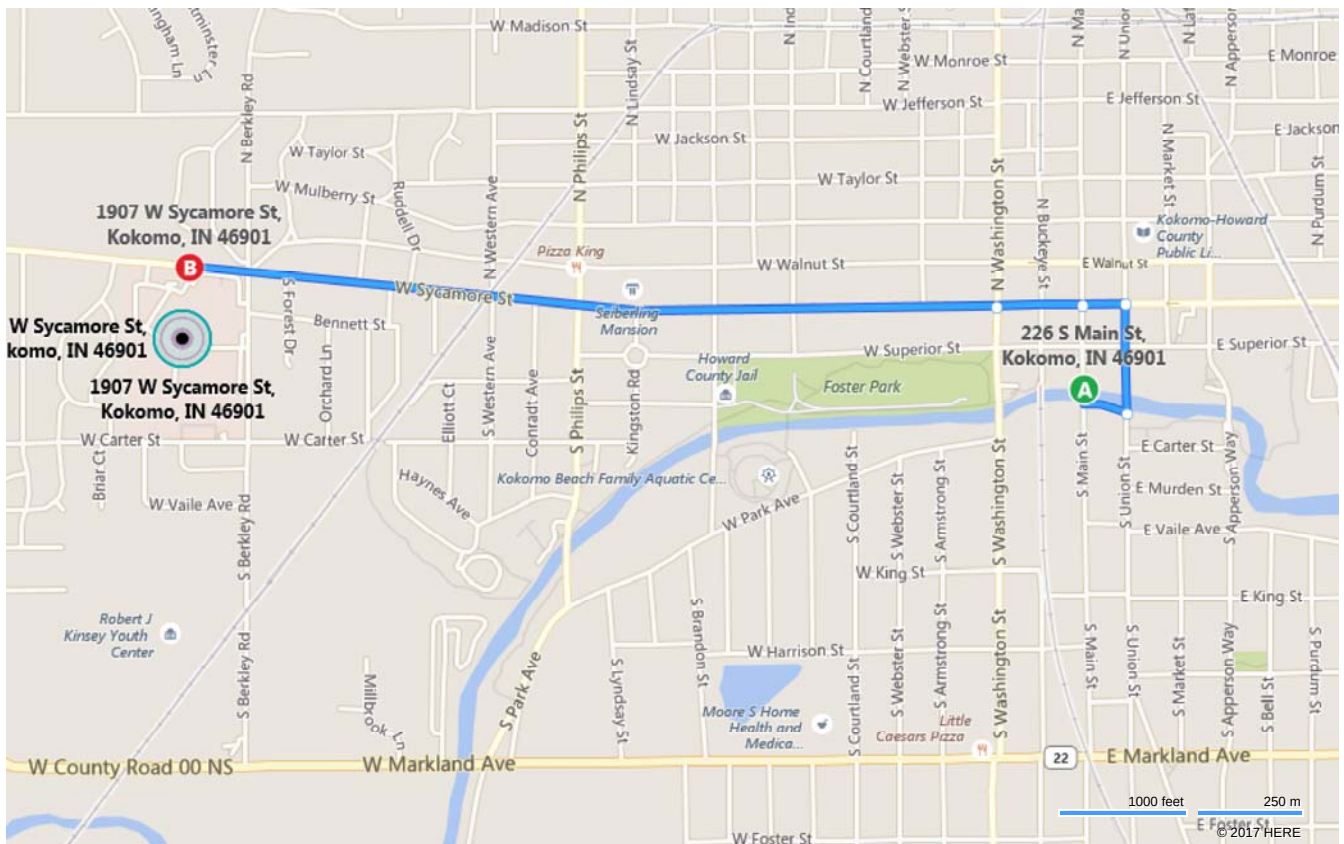
6 min, 1.7 mi
Moderate traffic (5 min without traffic)
Via IN-22

Type your route notes here

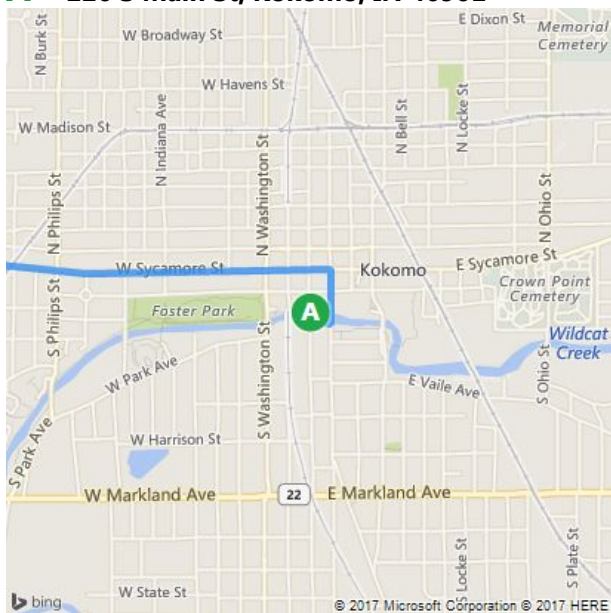
A 226 S Main St, Kokomo, IN 46901

↑	1. Depart S Main St toward Park Ave	128 ft
↩	2. Turn left onto Park Ave	354 ft
↩	3. Turn left onto S Union St	0.2 mi
↩	4. Turn left onto E Sycamore St	348 ft
↑	5. Road name changes to W Sycamore St	0.1 mi
↑	6. Keep straight onto IN-22 / W Sycamore St	1.2 mi
	7. Arrive at IN-22 / W Sycamore St The last intersection is S Berkley Rd If you reach Devonshire Dr, you've gone too far	

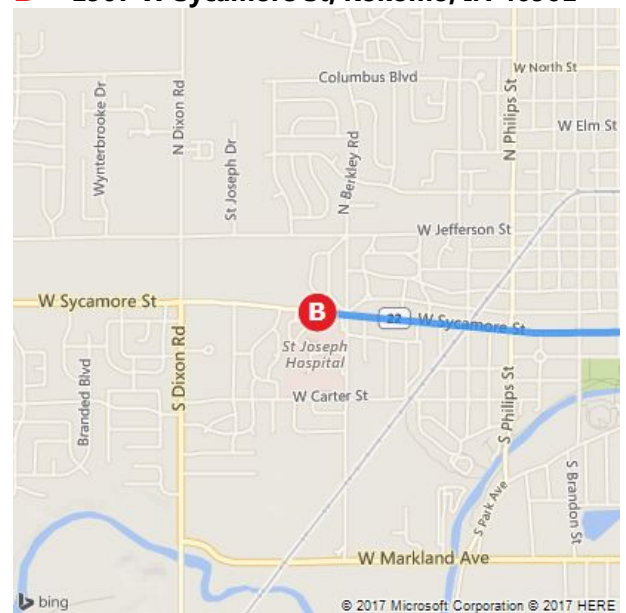
B 1907 W Sycamore St, Kokomo, IN 46901



A 226 S Main St, Kokomo, IN 46901



B 1907 W Sycamore St, Kokomo, IN 46901



These directions are subject to the Microsoft® Service Agreement and are for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2017 HERE™.

APPENDIX C*

SME HEALTH AND SAFETY FORMS

***NOTE: REVIEW SME HEALTH & SAFETY FORMS IN THE APPENDIX C PDF FILE.
SELECT THE FORMS THAT APPLY TO YOUR PROJECT WORK.
NOTE SOME PROJECTS MAY REQUIRE NO ADDITIONAL FORMS.**



INSTRUMENT CALIBRATION LOG

Calibration Date:	Calibration Time:
Instrument (Make, Model, and Serial Number):	
Calibration Device(s):	
Calibrated Instrument Readings:	
Name/Signature of Person Calibrating Instrument:	
Calibration Date:	Calibration Time:
Instrument (Make, Model, and Serial Number):	
Calibration Device(s):	
Calibrated Instrument Readings:	
Name/Signature of Person Calibrating Instrument:	
Calibration Date:	Calibration Time:
Instrument (Make, Model, and Serial Number):	
Calibration Device(s):	
Calibrated Instrument Readings:	
Name/Signature of Person Calibrating Instrument:	
Calibration Date:	Calibration Time:
Instrument (Make, Model, and Serial Number):	
Calibration Device(s):	
Calibrated Instrument Readings:	
Name/Signature of Person Calibrating Instrument:	



DIRECT READING INSTRUMENT LOG

Project:				Project Number:		
Date:		Staff Name:				
Instruments Used (Name, Model & Serial Number:):						
TIME	LOCATION	INSTRUMENT READINGS				COMMENTS



WORK-RELATED INCIDENT ILLNESS / INJURY / VEHICULAR INCIDENT ANALYSIS REPORT

Notify Human Resources and Safety immediately by telephone or email then complete and return this form within 24 hours of incident. **For incidents involving serious injury requiring hospitalization or a fatality, notify Human Resources and Safety immediately by telephone and email and follow with this form as soon as practical.**

TEAM MEMBER MUST COMPLETE THE FOLLOWING

Team Member Name: _____ Team Member Title: _____

Team Member Group: _____ Team Member Office: _____

Team Leader: _____ Group Leader: _____

Date of Birth: _____ Date Hired: _____ ☐ Male ☐ Female

Incident Date: _____ Time: _____ Date Reported: _____ Last Day Worked: _____

Location of Incident: _____ County/State: _____

Witness(es): _____

What work activity was in progress when incident occurred? _____

Team Member Injured or Ill? ☐ YES ☐ NO Medical Treatment Required? ☐ YES ☐ NO

If yes, location of medical treatment: _____

If yes, what was the injury or illness?: _____

Description of incident and, if injured, object or substance that directly harmed Team Member:

Did Team Member return to work? ☐ YES ☐ NO Date Returned: _____

Did vehicle/equipment malfunction? ☐ YES ☐ NO Was there property damage? ☐ YES ☐ NO

Was there vehicle damage? ☐ YES ☐ NO If SME vehicle involved, vehicle #: _____

Describe malfunction and/or damage to vehicle/equipment or property: _____

Team Member Signature: _____ Date: _____



WORK-RELATED INCIDENT ILLNESS / INJURY / VEHICULAR INCIDENT ANALYSIS REPORT

Notify Human Resources and Safety immediately by telephone or email then complete and return this form within 24 hours of incident. **For incidents involving serious injury requiring hospitalization or a fatality, notify Human Resources and Safety immediately by telephone and email and follow with this form as soon as practical.**

TEAM LEADER MUST COMPLETE THE FOLLOWING

Unsafe condition or Team Member action that led to the incident:

Action taken or to be taken to prevent similar incidents:

Team Leader Signature: _____ Date: _____

Submit to:

SME Manager of Human Resources, Kramer Bldg., 43980 Plymouth Oaks Blvd., Plymouth, MI 48170

Copy: Corporate Safety Director, Safety Committee, Group Leader, Regional Manager of Office,
Regional Vice President, President, Chief Financial Officer, and Human Resources-Plymouth



WORK-RELATED NEAR MISS INCIDENT ANALYSIS REPORT

Near Miss Incident Definition: A condition, situation or act that has the potential to cause injury to the Team Member or others nearby and/or vehicle and property damage which is narrowly avoided. For all near miss incidents complete and return within 24 hours of the near miss incident.

TEAM MEMBER MUST COMPLETE THE FOLLOWING

Team Member Name: _____ Team Member Title: _____

Team Member Group: _____ Team Member Office: _____

Team Leader: _____ Group Leader: _____

Date of Birth: _____ Date Hired: _____ ☐ Male ☐ Female

Date of Near Miss: _____ Time: _____ Date Reported: _____

Location of Near Miss: _____ County: _____

Witness(es): _____

What work activity was in progress when the near miss incident occurred? _____

Description of near miss:

Was there equipment malfunction? ☐ YES ☐ NO

Team Member Signature: _____ Date: _____

TEAM LEADER MUST COMPLETE THE FOLLOWING

Unsafe condition, situation, or act that led to the near miss: _____

Action to be taken to prevent similar incidents in the future:

Team Leader Signature: _____ Date: _____

Submit to:

SME Manager of Human Resources, Kramer Bldg., 43980 Plymouth Oaks Blvd., Plymouth, MI 48170

Copy: Corporate Safety Director, Safety Committee, Group Leader, Regional Manager of Office,
Regional Vice President, President, Chief Financial Officer, and Human Resources-Plymouth



*Passionate People Building
and Revitalizing our World*



APPENDIX B

GEOPHYSICAL REPORT

December 15, 2017

Christopher G. Shaw, CHMM
Senior Project Consultant
SME
5835 W. 74th Street
Indianapolis, IN 46278-1757

Re: Geophysical Investigation
212-226 S Main Street
Kokomo, Indiana
Prism Project No. 00-059-045

Dear Chris,

Prism Geolmaging, Inc. (Prism) is pleased to present SME with this letter report documenting the geophysical investigation at the above-referenced project site (the "Site").

Introduction

Based on discussions with SME prior to the geophysical investigation, it was my understanding that there is concern that underground storage tanks (USTs) may exist within two areas of the Site. The Site is currently paved in asphalt with a small area of concrete. See Figure 1 for site layout and search areas.

Geophysical Methods

High resolution time-domain electromagnetic metal detection mapping (EMD) was used as the primary method of investigation for the northern search area. EMD data were collected with an EM61-MK2 metal detector manufactured by Geonics Ltd. The EM61-MK2 is a high-sensitivity, high-resolution, time-domain electromagnetic metal detector. It consists of two vertically separated 1-meter by 0.5-meter coaxial coils mounted to a wheel assembly. The instrument operator pulls the coil assembly along the line of profile while data is collected nearly continuously. The EM61-MK2 is designed to take readings from the bottom coil (designated as channel three) and an additional reading from the top coil. The top and bottom coil readings are then subtracted to selectively filter out the effect from near-surface metal objects (designated as channel difference calculation). The channel three reading is considered to be a measure of all metal both shallow and deep within the detection limits of the instrument, while the channel difference calculation is a measure of predominantly deeper metal only. EM61-MK2 data were collected along lines spaced 4 feet apart according to an arbitrary grid constructed on the Site. See Figure 1 for data coverage.

Ground penetrating radar (GPR) was used as the primary method of investigation for the southern search area. GPR works on a reflection principle, whereby a narrow band radar pulse of short duration is emitted downward into the ground by a transmitting antenna. A receiving antenna is used to record radar waves that are moving upward after being reflected from the

boundaries between materials that have contrasting electrical conductivities and dielectric constants. The deeper an object is, the later in time the reflection will appear. Using knowledge of the velocity of radar waves in soil, the GPR profile can be presented in terms of estimated depth. The penetration depth of GPR is highly dependent on soil type. Clays and moist silty soils will disperse the radar signal and prevent it from penetrating into the subsurface. Thus clayey soils block GPR and effectively limit the depth of exploration. GPR is often used for locating USTs underneath reinforced concrete because the high resolution signal can penetrate the reinforcing mat and reflect off the tank surface below. The high resolution subsurface characterization of GPR makes it well-suited to detecting abandoned and relic utilities; therefore it is often used for boring clearance investigations as well. The GPR system that was used is a cart-mounted 250 Mhz Noggin Plus GPR system manufactured by Sensors and Software Inc. The estimated signal penetration depth was approximately 5-6 feet. GPR data were collected along data transects spaced approximately 2 feet apart. Data were analyzed in real time, with interpretations marked directly on the ground with high visibility spray paint.

Results

The EMD data were processed with *Surfer v15* authored by Golden Software, Inc. The channel difference map is presented on Figure 2. EM61-MK2 anomalies are generally consistent in character from site to site, independent of the environment. For a typical steel UST, the magnitude of the channel difference anomaly is generally in the low to mid 100's millivolts. Large metal objects that are close to the surface (e.g. reinforced concrete, iron manholes) cause high instrument readings that are often too large to be entirely filtered out by the differencing calculation. The EMD channel three map (Figure 2) shows the reinforced-concrete parking bumpers at the eastern side of the search area, and two small anomalies near the center of the map. The two small anomalies are consistent with small metallic objects (such as cutoff steel fence posts), however no anomalies consistent with steel USTs were found within the northern search area.

Typical USTs produce GPR anomalies showing a curved radar reflection across the tank axis, with a flat radar reflection along the tank axis. One such GPR anomaly was found within the southern search area. The location of this anomaly was painted on the ground with high-visibility spray paint, and is shown on Figure 2.

Limitations

This geophysical survey was intended to locate steel USTs. Anomalies of potential interest that are dissimilar to steel USTs may have gone undetected or uninterpreted by this survey. Areas obscured by features such as debris and vehicles may conceal additional anomalies of interest that are unknown at this time. Although this survey was performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances and conditions, it remains a possibility that features of potential interest may have gone undetected or uninterpreted by this survey. Prism Geoimaging, Inc. makes no warranty, express or implied, as to its professional services rendered for this project. USTs that are difficult to detect and would be of concern to project stakeholders

(e.g. heavily corroded USTs, fiberglass/plastic USTs) may have gone undetected by this investigation, and may not be detectable by any geophysical investigation.

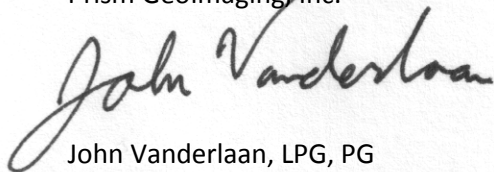
The enclosed maps are considered to be of sufficient accuracy and precision to provide you with positional data for further investigation activities. However the Site features presented on the base maps are for informational purposes only and no representation is made as to the accuracy or completeness of this information. The enclosed maps, while they may indicate locations of utilities, are not to be taken as a map of utility locations and are not a substitute for a private utility locate.

Closing

Prism Geoimaging, Inc. appreciates the opportunity to provide SME with this geophysical survey, and I look forward to working with you on future projects. If you should have any questions regarding this project, please do not hesitate to contact me.

Sincerely,

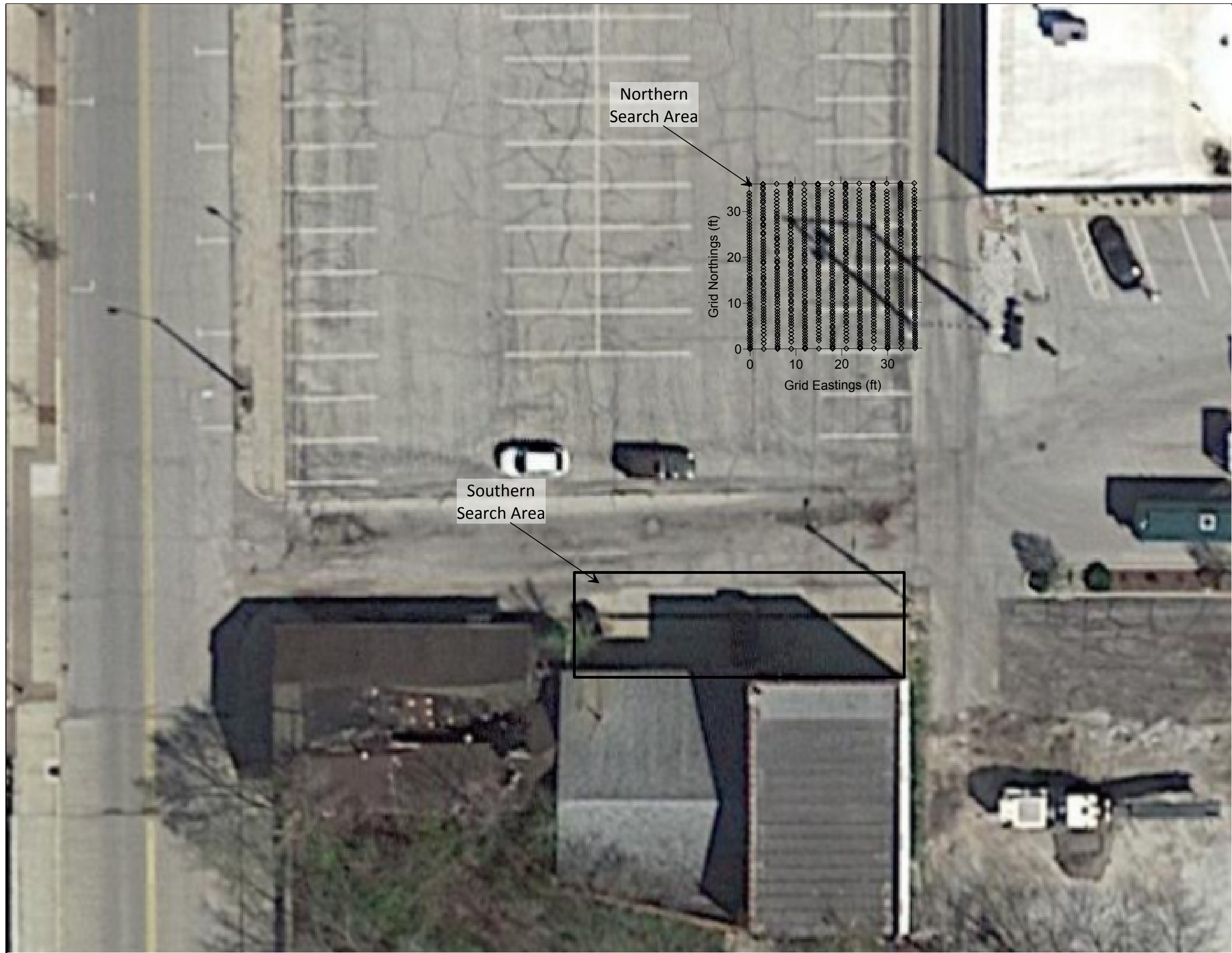
Prism GeoImaging, Inc.

A handwritten signature in black ink that reads "John Vanderlaan". The signature is fluid and cursive.

John Vanderlaan, LPG, PG
President / Geophysicist

Figure 1 Site Layout

Figure 2 Results and Interpretations



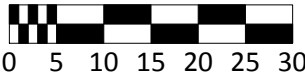
LEGEND



EM61-MK2 Data Point Locations

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Scale in Feet



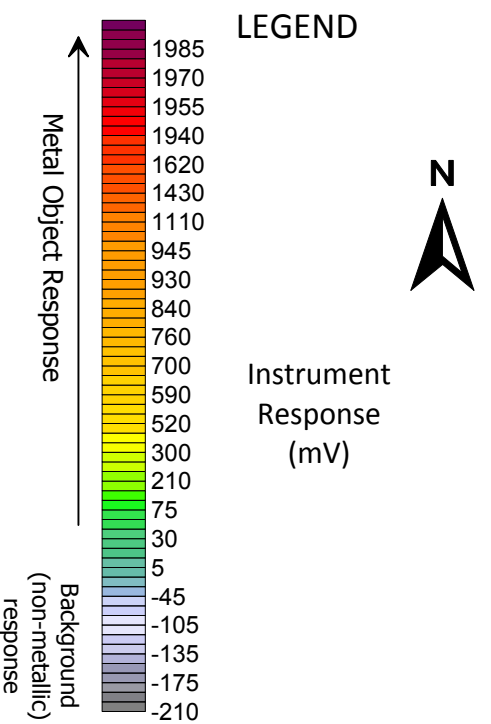
1" = 20'



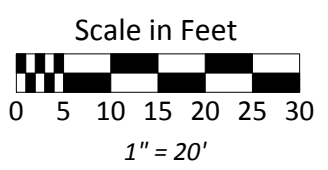
Prism GeoImaging, Inc.
11722 Allisonville Road, Ste 103-#144
Fishers, Indiana 46038
www.prismgeo.com

Figure 1
Site Layout And Data Coverage

212-226 S Main Street
Kokomo, Indiana
Prism Project No. 00-059-045



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Prism GeoImaging

Prism GeoImaging, Inc.
11722 Allisonville Road, Ste 103-#144
Fishers, Indiana 46038
www.prismgeo.com

Figure 2

Results and Interpretations

EM61-MK2 Ch 3 Map (northern area)
GPR Scan Results (southern area)

212-226 S Main Street
Kokomo, Indiana
Prism Project No. 00-059-045

December 15, 2017

Christopher G. Shaw, CHMM
Senior Project Consultant
SME
5835 W. 74th Street
Indianapolis, IN 46278-1757

Re: Geophysical Investigation
200 S Main Street
Kokomo, Indiana
Prism Project No. 00-059-046

Dear Chris,

Prism GeoImaging, Inc. (Prism) is pleased to present SME with this letter report documenting the geophysical investigation at the above-referenced project site (the "Site").

Introduction

Based on discussions with SME prior to the geophysical investigation, it was my understanding that there is concern that underground storage tanks (USTs) may exist at the Site. All structures at the Site have been razed and the Site is currently paved with crushed gravel. See Figure 1 for site layout and search area.

Geophysical Method

High resolution time-domain electromagnetic metal detection mapping (EMD) was used as the primary method of investigation for this Site. EMD data were collected with an EM61-MK2 metal detector manufactured by Geonics Ltd. The EM61-MK2 is a high-sensitivity, high-resolution, time-domain electromagnetic metal detector. It consists of two vertically separated 1-meter by 0.5-meter coaxial coils mounted to a wheel assembly. The instrument operator pulls the coil assembly along the line of profile while data is collected nearly continuously. The EM61-MK2 is designed to take readings from the bottom coil (designated as channel three) and an additional reading from the top coil. The top and bottom coil readings are then subtracted to selectively filter out the effect from near-surface metal objects (designated as channel difference calculation). The channel three reading is considered to be a measure of all metal both shallow and deep within the detection limits of the instrument, while the channel difference calculation is a measure of predominantly deeper metal only. EM61-MK2 data were collected along lines spaced 3 feet apart according to an arbitrary grid constructed on the Site. See Figure 1 for data coverage.

Results

The EMD data were processed with *Surfer v15* authored by Golden Software, Inc. The channel difference map is presented on Figure 2. EM61-MK2 anomalies are generally consistent in character from site to site, independent of the environment. For a typical steel UST, the magnitude of the channel difference

anomaly is generally in the low to mid 100's millivolts. Large metal objects that are close to the surface (e.g. reinforced concrete, iron manholes) cause high instrument readings that are often too large to be entirely filtered out by the differencing calculation.

The EMD channel three map (Figure 2) shows a series of low-amplitude anomalies along the eastern edge of the study area (these are interpreted as utility line features), and several linear anomalies near the center of the study area (these are interpreted as possible former building foundations). None of the EMD anomalies are consistent with steel USTs; therefore no evidence was found that steel USTs remain within the search area at this Site.

Limitations

This geophysical survey was intended to locate steel USTs. Anomalies of potential interest that are dissimilar to steel USTs may have gone undetected or uninterpreted by this survey. Areas obscured by features such as debris and vehicles may conceal additional anomalies of interest that are unknown at this time. Although this survey was performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances and conditions, it remains a possibility that features of potential interest may have gone undetected or uninterpreted by this survey. Prism Geoimaging, Inc. makes no warranty, express or implied, as to its professional services rendered for this project. USTs that are difficult to detect and would be of concern to project stakeholders (e.g. heavily corroded USTs, fiberglass/plastic USTs) may have gone undetected by this investigation, and may not be detectable by any geophysical investigation.

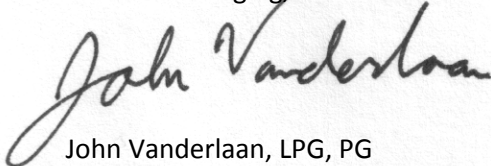
The enclosed maps are considered to be of sufficient accuracy and precision to provide you with positional data for further investigation activities. However the Site features presented on the base maps are for informational purposes only and no representation is made as to the accuracy or completeness of this information. The enclosed maps, while they may indicate locations of utilities, are not to be taken as a map of utility locations and are not a substitute for a private utility locate.

Closing

Prism Geoimaging, Inc. appreciates the opportunity to provide SME with this geophysical survey, and I look forward to working with you on future projects. If you should have any questions regarding this project, please do not hesitate to contact me.

Sincerely,

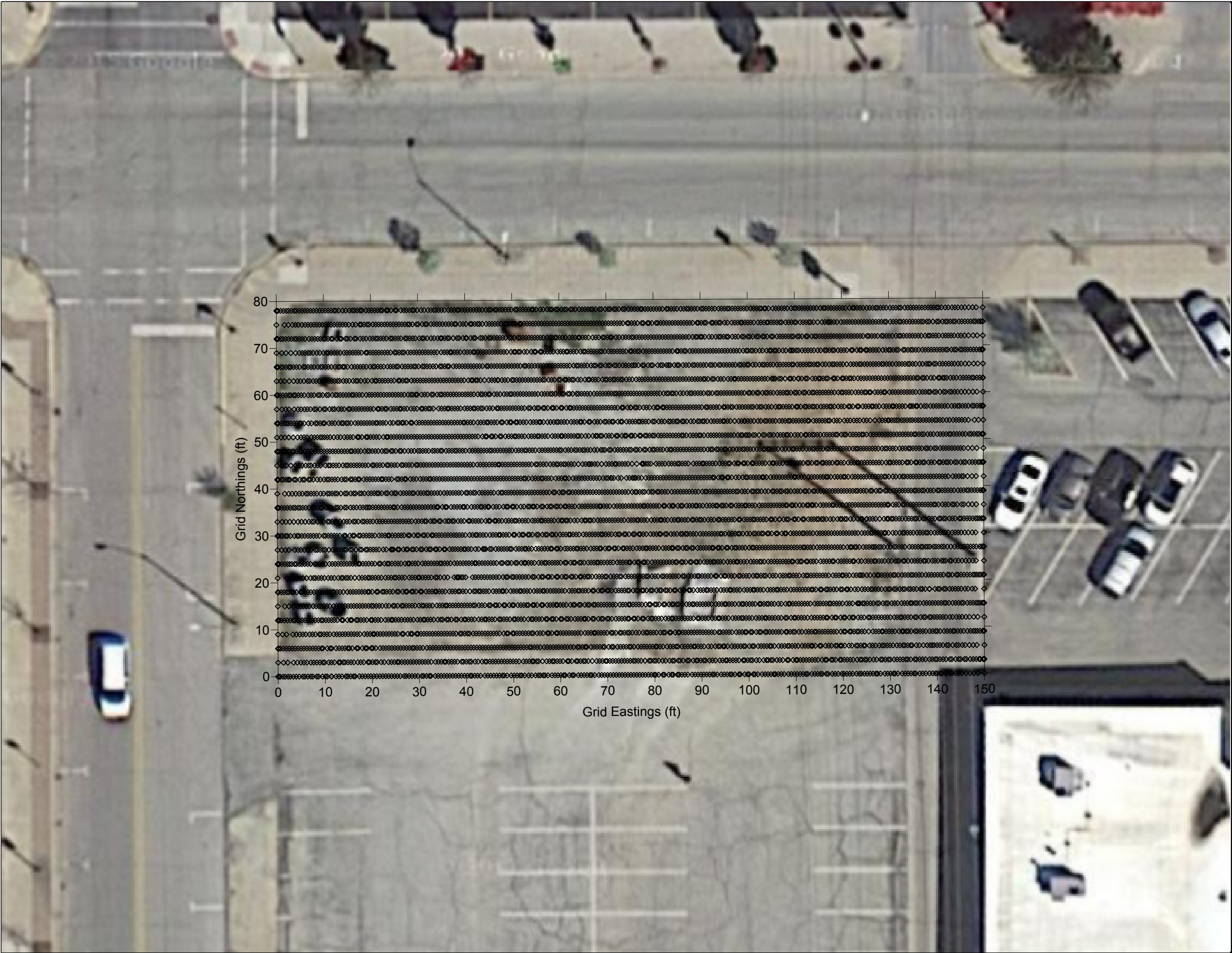
Prism GeoImaging, Inc.



John Vanderlaan, LPG, PG
President / Geophysicist

Figure 1 Site Layout

Figure 2 EM61-MK2 Ch Three Map



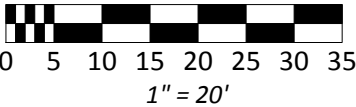
LEGEND



EM61-MK2 Data Point Locations

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Scale in Feet

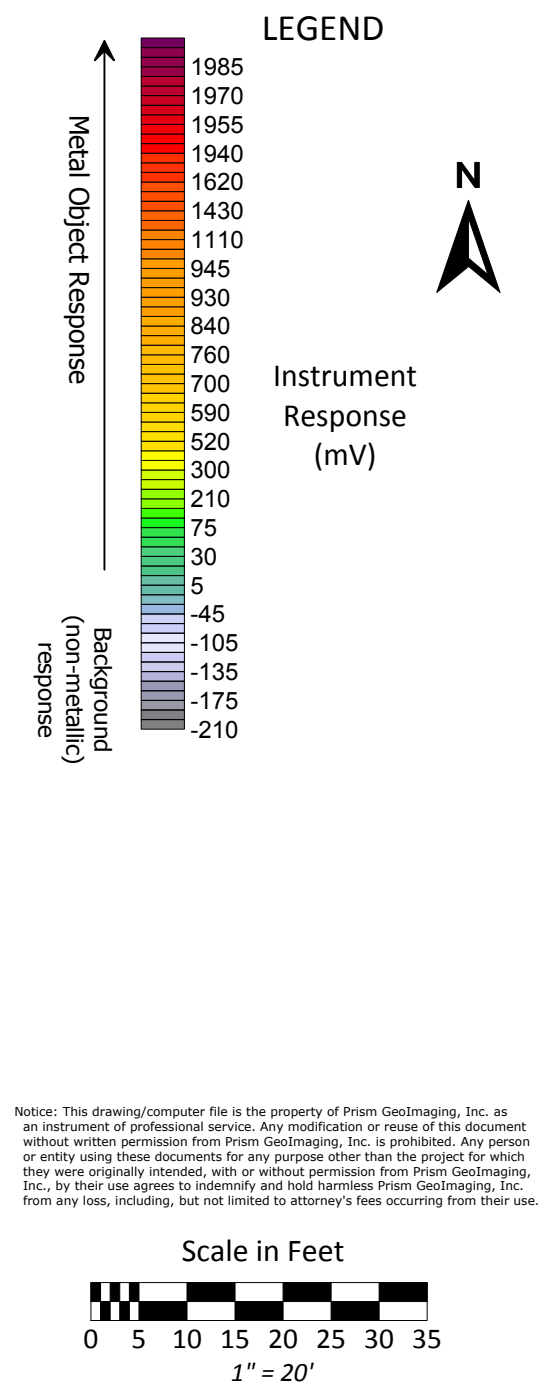
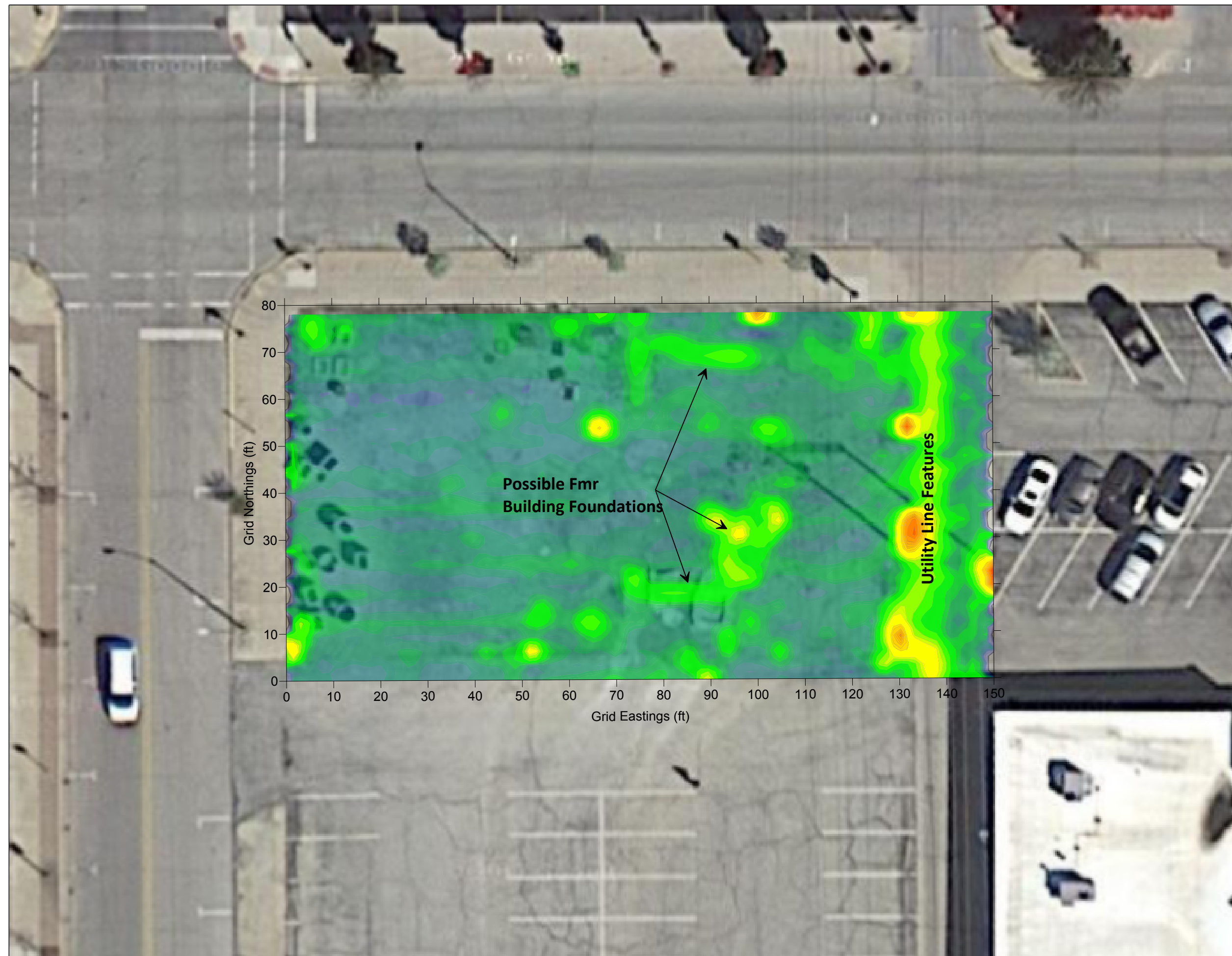


Prism GeoImaging, Inc.
11722 Allisonville Road, Ste 103-#144
Fishers, Indiana 46038
www.prismgeo.com

Figure 1

Site Layout And Data Coverage

200 S Main St
Kokomo, Indiana
Prism Project No. 00-059-046



Prism GeoImaging
Prism GeoImaging, Inc.
11722 Allisonville Road, Ste 103-#144
Fishers, Indiana 46038
www.prismgeo.com

Figure 2
EM61-MK2 Ch Three Map
All Metal Within Detection Limits
200 S Main St
Kokomo, Indiana
Prism Project No. 00-059-046

APPENDIX C

SOIL BORING LOGS

**BORING SB 1**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/13/17**COMPLETED:** 11/13/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0			LS1	33	1.1			
		FILL- SILTY CLAY with Sand- Trace Gravel and Brick- Dark Brown- Moist (CL)			<1			
5			LS2	17	<1			
7.5					1.0			
		SILTY SAND- Trace Gravel- Brown- Wet (SM)	LS3	48	1.2			A groundwater sample was collected from a temporary monitoring well; the well screen was set between 8 feet and 13 feet below ground surface.
10.0					1.3			Odors were noted and staining was observed from 10 feet to 14 feet.
			LS4	48	1.0			
		SILTY CLAY- Trace Sand- Brown (CL)			1.3			
15			LS5	48	1.4			
					<1			
20		END OF BORING AT 20.0 FEET.						
20.0								
25								
30								

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: DEPTH (FT) 7.5
▽ AT END OF BORING: 7.0

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB 2**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/13/17**COMPLETED:** 11/13/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
5		FILL- SILTY CLAY with Sand- Trace Sand, Gravel, Stone and Brick- Dark Brown- Moist (CL)	LS1	28	3.2			
8.0			LS2	21	3.9			
10			LS3	39	6.4			
15		SILTY CLAY- Trace Sand and Gravel- Brown (CL)	LS4	28	2.1			
20			LS5	33	2.4			
24.0			LS6	29	2.2			
25		END OF BORING AT 24.0 FEET.						
30								

Black staining was observed from 15 feet to 16 feet. A groundwater sample was collected from a temporary monitoring well; the well screen was set between 15 feet and 20 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 18.0
▽ AT END OF BORING: 15.5

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted.

**BORING SB 3**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/13/17**COMPLETED:** 11/13/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of Concrete and Subgrade						
		FILL- SAND- Stone and Gravel (SP)	LS1		7.2			
					5.8			
5		FILL- SILTY CLAY with Sand- Trace Gravel and Brick- Dark Brown (CL)	LS2		7.9			
					2.5			
8.0		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS3		2.0			
					2.1			
12.0			LS4		1215			Odors were noted, and black staining was observed from 12 feet to 14 feet.
		SILTY CLAY with Trace Sand and Gravel- Grayish Brown (CL)			30.4			A groundwater sample was collected from a temporary monitoring well; the well screen was set between 14 feet and 19 feet below ground surface.
			LS5		29.8			
					2.2			
20		END OF BORING AT 20.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 17.5
▽ AT END OF BORING: 11.7

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB 4**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/13/17**COMPLETED:** 11/13/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of Concrete and Subgrade						
4.0		FILL - SILTY CLAY with Sand and Gravel- Dark Brown (CL)	LS1	26	2.6			
5			LS2	35	1.9			
10		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS3	32	1.5			
15			LS4	33	1.7			Odors were noted, and staining was observed from 10 feet to 16 feet.
20			LS5	47	2.7			A groundwater sample was collected from a temporary monitoring well; the well screen was set between 15 feet and 20 feet below ground surface.
20.0		END OF BORING AT 20.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 19.0
▽ AT END OF BORING: 13.9

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB 5**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/13/17**COMPLETED:** 11/13/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of Concrete and Subgrade						
5		FILL - SILTY CLAY with Sand, Gravel and Brick- Dark Brown (CL)	LS1	24	6.5			
					2.78			
			LS2	24	2.8			
					2.9			
10			LS3	24	2.2			
					2.6			
13.5			LS4	29	4.4			
15		SILTY CLAY with Trace Sand- Gray (CL)			3.0			
					3.3			
19.0			LS5	48	5.7			
20		SAND and GRAVEL- Gray- Wet (SW)			<1			
			LS6	23	11.1			
24.0		END OF BORING AT 24.0 FEET.						
25								
30								

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 17.5 feet and 22.5 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 19.0
▽ AT END OF BORING: 18.4

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB 6**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/13/17**COMPLETED:** 11/13/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of Concrete and Subgrade						
5		FILL- SILTY CLAY with Sand, Gravel, Stone and Brick- Dark Brown (CL)	LS1	24	5.0			
					2.6			
			LS2	22	2.8			
					3.1			
10			LS3	26	3.1			
					2.7			
11.5					2.7			
15		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS4	36	684.5			Odors were noted and staining was observed. from 15 feet to 20 feet.
					741.6			
			LS5	34	377.5			A groundwater sample was collected from a temporary monitoring well; the well screen was set between 17 feet and 22 feet below ground surface.
19.5					3.9			
20		SAND and GRAVEL- Gray- Wet (SW)	LS6	16	2.7			
24.0		END OF BORING AT 24.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 19.5
▽ AT END OF BORING: 18.5

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB 7**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/13/17**COMPLETED:** 11/13/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of Concrete and Subgrade						
5		FILL- SILTY CLAY with Sand, Gravel, Stone and Brick- Dark Brown- Moist (CL)	LS1	15	3.1			
					2.0			
			LS2	26	2.9			
					2.8			
10			LS3	30	3.2			
					3.2			
12.0								
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS4	48	4.2			Odors were noted and staining was observed. from 13 feet to 18 feet.
15					142.2			
			LS5	44	101.6			A groundwater sample was collected from a temporary monitoring well; the well screen was set between 17 feet and 22 feet below ground surface.
					19.0			
20					3.9			
			LS6	36	3.6			
24.0		END OF BORING AT 24.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT)
▽ DURING BORING: 20.0
▽ AT END OF BORING: 18.6

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB 8**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/13/17**COMPLETED:** 11/13/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of Concrete and Subgrade						
5		FILL- SILTY CLAY with Sand, Gravel, Stone and Brick- Dark Brown- Moist (CL)	LS1	19	5.6			
					5.7			
			LS2	12	6.1			
					6.3			
8.0					6.4			
10			LS3	41	13.4			Odors were noted and staining was observed. from 10 feet to 15 feet.
					442.8			A groundwater sample was collected from a temporary monitoring well; the well screen was set between 12 feet and 17 feet below ground surface.
			LS4	48	10.0			
					3.1			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS5	39	4.3			
					2.6			
			LS6	43	1.8			
					1.0			
			LS7	48	1.5			
28.0		END OF BORING AT 28.0 FEET.						
30								

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
▽ DURING BORING:	DEPTH (FT) 18.0	
▽ AT END OF BORING:	12.2	
BACKFILL METHOD:		

**BORING SB 9**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.2		2 inches of ASPHALT CONCRETE and Subgrade	LS1	24	1.2			
5		FILL- SILTY CLAY with Sand, Gravel, and Brick- Dark Brown (CL)	LS2	10	2.2			
8.0					2.7			
10		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS3	48	3.4			
14.0					2.6			
15		SAND and GRAVEL- Brown- Wet (SW)	LS4	48	2.8			
15.5					2.7			
16.0		Fine SAND- Gray/Brown- Wet (SP)			2.6			
		SILTY CLAY with Trace Sand and Gravel- Gray/Brown (CL)	LS5	41	2.8			
20.0		END OF BORING AT 20.0 FEET.			3.0			
25								
30								

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 13 feet and 18 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

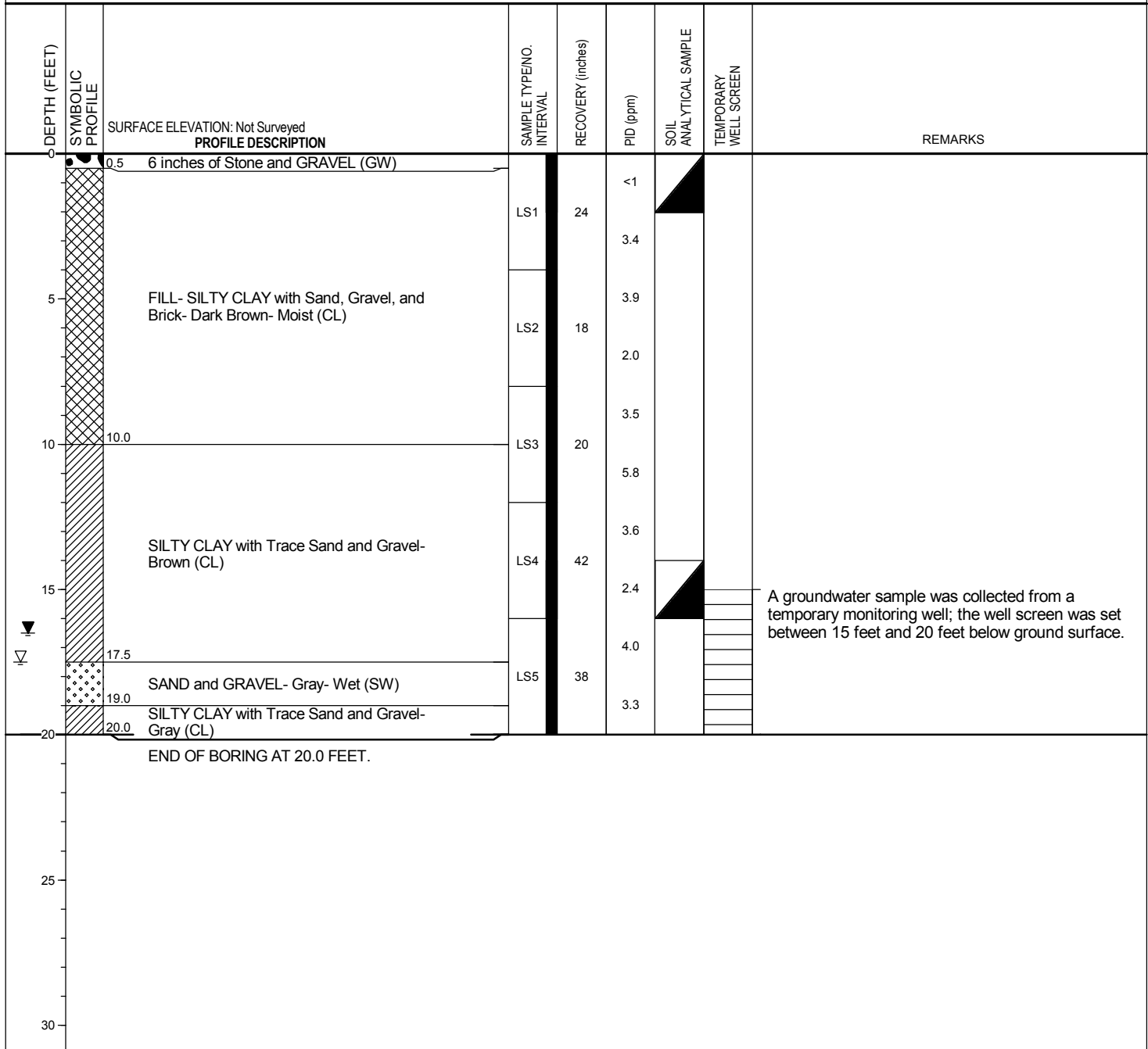
▽ DURING BORING: 14.0
▽ AT END OF BORING: 9.3

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB10**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS**GROUNDWATER & BACKFILL INFORMATION**

▽ DURING BORING: 17.5
▽ AT END OF BORING: 16.5

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB11**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.5		6 inches of Stone and GRAVEL (GW)						
5		FILL- SILTY CLAY with Sand, Gravel, Brick, Glass and Cinders- Dark Brown (CL)	LS1	20	4.4			
					2.7			
			LS2	22	1.8			
					1.3			
10			LS3	30	1.1			
					1.1			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS4	42	1.3			
					1.4			
					1.7			
			LS5	43	1.9			
18.0								
19.0		SAND and GRAVEL- Gray- Wet (SW)						
20.0		SILTY CLAY with Trace Sand and Gravel- Gray (CL)						
20		END OF BORING AT 20.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted, and no staining was observed.
	DEPTH (FT)	
▽ DURING BORING:	17.5	
▽ AT END OF BORING:	16.2	
BACKFILL METHOD:		

**BORING SB12**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of CONCRETE and Subgrade						
5		FILL- SILTY CLAY with Sand and Gravel- Dark Brown (CL)	LS1	23	10.0			
					3.2			
			LS2	20	4.0			
					3.6			
10			LS3	8	4.4			
					4.7			
12.0					4.1			
		SILTY CLAY with Trace Sand and Gravel- Wet Sand and Gravel Seams- Brown (CL)	LS4	39	4.8			
16.0					3.9			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS5	43	3.6			
20.0								
20		END OF BORING AT 20.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted, and no staining was observed.
	DEPTH (FT)	
▽ DURING BORING:	12.0	
▼ AT END OF BORING:	12.3	
BACKFILL METHOD:		

**BORING SB13**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of CONCRETE and Subgrade						
5		SILTY CLAY with Trace Sand and Gravel-Brown (CL)	LS1	33	9.0			
					11.9			
			LS2	33	5.8			
					3.5			
10			LS3	48	2.6			
					2.9			
12.0								
			LS4	41	1.5			
15					1.8			
			LS5	39	2.7			
					1.9			
20		SILTY CLAY with Trace Sand and Gravel-Gray (CL)	LS6	48	1.3			
			LS7	28	1.6			
25			LS8	9	2.0			
					1.3			
28.0								
			LS9	48	1.5			
30.0		Fine SAND with Trace Gravel- Gray- Wet (SP)						
30.0		END OF BORING AT 30.0 FEET.						

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 25 feet and 30 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 28.0
▽ AT END OF BORING: 16.1

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB14**

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PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of CONCRETE and Subgrade						
5		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS1	23	20.7			
					11.2			
			LS2	30	5.0			
					4.5			
8.0								
10			LS3	37	2.9			
					2.8			
			LS4	40	2.9			
					2.6			
15			LS5	48	2.2			
		SILTY CLAY with Sand and Gravel- Gray (CL)			3.1			
			LS6	48	1.5			
					1.2			
			LS7	48				
					<1			
			LS8	48				
					1.7			
27.0								
		SAND and GRAVEL- Gray- Wet (SW)	LS9	48	1.3			
30.0								
30		END OF BORING AT 30.0 FEET.						

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 24 feet and 29 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 27.0
▽ AT END OF BORING: 16.2

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB15**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of CONCRETE and Subgrade	LS1	23	1.1			
					1.4			
5		SILTY CLAY with Trace Sand and Gravel- Brown- Moist (CL)	LS2	12	1.3			
					1.4			
9.5					7.0			
10		Fine SAND- Brown- Wet (SP)	LS3	32	7.6			
11.0		SILTY CLAY with Trace Sand and Gravel- Brown (CL)						
12.0								
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS4	48	1.6			
15					1.3			
16.0		END OF BORING AT 16.0 FEET.						
20								
25								
30								

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 9 feet and 14 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 9.5
▽ AT END OF BORING: 7.5

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB16**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.5		6 inches of Stone and GRAVEL (GW)						
			LS1	27	6.8			
					2.1			
5		SILTY CLAY with Trace Sand, Gravel, Brick, Cinder and Wood- Dark Brown (CL)	LS2	12	2.3			
					80.5			
10			LS3	24	3.6			
					4.3			
			LS4	23	3.1			
		SILTY CLAY with Trace Sand and Gravel- Brown (CL)			3.1			
15					2.7			
			LS5	37	2.8			
19.0								
20.0		SILTY CLAY with Trace Sand and Gravel- Gray (CL)						
20		END OF BORING AT 20.0 FEET.						
25								
30								

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 14 feet and 19 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 14.0
▽ AT END OF BORING: 11.7

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB17**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of ASPHALT and Subgrade						
5		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS1	31	1.7			
					2.5			
			LS2	42	2.3			
					2.4			
10			LS3	36	2.3			
11.0					2.4			
15		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS4	27	2.0			
					1.8			
					2.1			
18.0			LS5	43	1.2			
		SAND and GRAVEL- Gray- Wet (SW)						
20.5			LS5	48	<1			
21.0		SILTY CLAY with Trace Sand and Gravel- Gray (CL)						
		END OF BORING AT 21.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted, and no staining was observed.
	DEPTH (FT)	
▽ DURING BORING:	18.0	
▽ AT END OF BORING:	13.9	
BACKFILL METHOD:		

**BORING SB18**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of ASPHALT and Subgrade						
5		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS1	33	1.3			
					1.1			
					1.6			
			LS2	37	<1			
10					<1			
10.0			LS3	40	<1			
					<1			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS4	30	<1			
15					<1			
			LS5	37	<1			
18.0					<1			
		SILTY SAND with Trace Gravel- Gray- Wet (SM)	LS5	48	<1			
20					<1			
21.0					<1			
END OF BORING AT 21.0 FEET.								
25								
30								

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 16 feet and 21 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 18.0
▽ AT END OF BORING: 12.0

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB19**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of ASPHALT and Subgrade						
5		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS1	40	<1			
7.0			LS2	30	<1			
10		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS3	36	1.1			
15			LS4	37	1.3			
17.0					1.1			
20.0		Fine SAND- Gray- Wet (SP)	LS5	48	1.1			A groundwater sample was collected from a temporary monitoring well; the well screen was set between 14 feet and 19 feet below ground surface.
20		END OF BORING AT 20.0 FEET.			1.2			
					2.3			
					1.7			
25								
30								

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 15.0
▽ AT END OF BORING: 4.3

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB20**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/14/17**COMPLETED:** 11/14/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of ASPHALT and Subgrade						
5			LS1	23	1.5			
					2.0			
			LS2	47	1.8			
		SILTY CLAY with Trace Sand and Gravel- Brown (CL)			2.3			
10			LS3	45	2.0			
					1.8			
					2.1			
14.0			LS4	48	2.2			
15					2.0			
			LS5	48	1.8			
20		SILTY CLAY with Trace Sand and Gravel- Gray (CL)			1.4			
			LS6	48	1.0			
25					2.2			
25.5		Fine SAND- Gray- Wet (SP)	LS7	48	2.3			
27.5								
		SAND and GRAVEL- Gray- Wet (SW)	LS8	48	2.2			
30		END OF BORING AT 30.0 FEET.						

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 24 feet and 29 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 25.5
▽ AT END OF BORING: 18.0

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB21**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/15/17**COMPLETED:** 11/15/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of ASPHALT and Subgrade						
5		FILL- SILTY CLAY with Sand and Gravel- Dark Brown (CL)	LS1	33	1.1			
					<1			
			LS2	17	<1			
					1.0			
8.0		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS3	48	1.2			
12.0					1.3			
15		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS4	48	1.0			
16.0					1.3			
		SAND and GRAVEL- Gray- Wet (SW)	LS5	48	1.4			
					<1			
20.0		END OF BORING AT 20.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted, and no staining was observed.
	DEPTH (FT)	
▽ DURING BORING:	15.0	
▽ AT END OF BORING:	8.2	
BACKFILL METHOD:		

**BORING SB22**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/15/17**COMPLETED:** 11/15/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of ASPHALT and Subgrade						
		FILL - SILTY CLAY with Sand and Gravel- Dark Brown (CL)	LS1	24	1.4			
					1.2			
5			LS2	39	<1			
		SILTY CLAY with Trace Sand and Gravel- Brown (CL)			<1			
					<1			
10			LS3	48	<1			
					1.0			
			LS4	48	1.0			
					1.0			
					1.0			
			LS5	48	1.1			
					2.0			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS6	48	1.6			
					2.0			
					1.7			
			LS7	48				
					2.3			
30		END OF BORING AT 30.0 FEET.	LS8	24				
30.0								

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 24 feet and 29 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT)

▼ AT END OF BORING: 12.6**BACKFILL METHOD:**

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB23**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/15/17**COMPLETED:** 11/15/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of ASPHALT and Subgrade						
		FILL- SILTY CLAY with Sand and Gravel- Dark Brown (CL)	LS1	27	1.7			
					1.6			
5			LS2	36	<1			
		SILTY CLAY with Trace Sand and Gravel- Brown (CL)			1.7			
					1.1			
10			LS3	35	1.3			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)						
		No Recovery	LS4					
15								
16.0			LS5	44	1.3			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)			1.2			
20					2.4			
21.5			LS6	48	1.9			
		Fine SAND with Trace Gravel- Gray- Wet (SP)						
24.0		END OF BORING AT 24.0 FEET.						
25								
30								

A groundwater sample was collected from a temporary monitoring well; the well screen was set between 17 feet and 22 feet below ground surface.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 18.5
▽ AT END OF BORING: 11.8

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.

**BORING SB24**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/15/17**COMPLETED:** 11/15/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.3		4 inches of ASPHALT and Subgrade						
			LS1	28	1.5			
					1.0			
5		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS2	35	<1			
					<1			
10			LS3	44	<1			
					<1			
11.0					<1			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)			<1			
14.0			LS4	47	<1			
		Fine SAND- Gray- Wet (SP)			<1			
15.0					<1			
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)			<1			
18.5			LS5	48	<1			
		SAND and GRAVEL- Gray- Wet (SW)			<1			
20.0								
		END OF BORING AT 20.0 FEET.						
20								
25								
30								

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted, and no staining was observed.
	DEPTH (FT)	
▽ DURING BORING:	14.0	
▽ AT END OF BORING:	6.8	
BACKFILL METHOD:		

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted, and no staining was observed.
	DEPTH (FT)	
▽ DURING BORING:	13.5	
▼ AT END OF BORING:	9.4	
BACKFILL METHOD:		

PROJECT NAME: Convention Center-Hotel Site

PROJECT NUMBER: 073195.00.04B.006

CLIENT: City of Kokomo

PROJECT LOCATION: 200 Block of S. Main St. and S. Union St., Kokomo, IN

DATE STARTED: 11/15/17

COMPLETED: 11/15/17

BORING METHOD: Direct Push

OPERATOR: SCS

RIG NO.: ATV

LOGGED BY: MS

CHECKED BY: CGS

DEPTH (FEET)	SYMBOLIC PROFILE	SURFACE ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		0.5 6 inches of Stone and GRAVEL (GW)						
		FILL- SILTY CLAY with Sand, Gravel and Brick- Dark Brown (CL)	LS1	12	2.2			
					1.9			
5		5.0	LS2	40	1.0			
		SILTY CLAY with Trace Sand and Gravel- Brown (CL)			<1			
					1.1			
10		10.5	LS3	45	<1			
					<1			
			LS4	48	<1			
15		SILTY CLAY with Trace Sand and Gravel- Gray (CL)			<1			
			LS5	48	<1			
					<1			
20		20.0						
		END OF BORING AT 20.0 FEET.						
25								
30								

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted, and no staining was observed.
	DEPTH (FT)	
▽ DURING BORING: 7.0 ▼ AT END OF BORING: 2.5		
BACKFILL METHOD:		

**BORING GP 3**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/15/17**COMPLETED:** 11/15/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.5		6 inches of Stone and GRAVEL (GW)						
			LS1	23	1.1			
					1.1			
5		FILL - Pulverized CONCRETE, Limestone and Brick	LS2	19	1.0			
					1.3			
					1.0			
10		10.0	LS3	28	1.2			
		SILTY CLAY with Trace Sand and Gravel- Brown (CL)						
		12.0						
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)			1.4			
		13.5						
		SAND and GRAVEL- Gray- Wet (SW)	LS4	42	1.5			
		15.0						
		SILTY CLAY with Trace Sand and Gravel- Gray (CL)						
		16.0						
		END OF BORING AT 16.0 FEET.						
20								
25								
30								

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted, and no staining was observed.
	DEPTH (FT)	
▽ DURING BORING:	13.5	
▽ AT END OF BORING:	10.2	
BACKFILL METHOD:		

**BORING GP 4**

PAGE 1 OF 1

PROJECT NAME: Convention Center-Hotel Site**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S. Main St. and S. Union St., Kokomo, IN**DATE STARTED:** 11/15/17**COMPLETED:** 11/15/17**BORING METHOD:** Direct Push**OPERATOR:** SCS**RIG NO.:** ATV**LOGGED BY:** MS**CHECKED BY:** CGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	TEMPORARY WELL SCREEN	REMARKS
0		SURFACE ELEVATION: Not Surveyed						
0.5		6 inches of Stone and GRAVEL (GW)						
4.0		FILL- SILTY CLAY with Trace Sand, Gravel and Brick- Dark Brown (CL)	LS1	24	1.3			
5					<1			
10		SILTY CLAY with Trace Sand and Gravel- Brown (CL)	LS2	40	<1			A temporary monitoring well was installed; the well screen was set between 5 feet and 10 feet below ground surface, but was dry at time of sampling.
12.0					<1			
15		SILTY CLAY with Trace Sand and Gravel- Gray (CL)	LS3	36	1.0			
16.0					1.2			
			LS4	48	1.3			
END OF BORING AT 16.0 FEET.								
20								
25								
30								

GROUNDWATER & BACKFILL INFORMATION**DURING BORING:**

DEPTH (FT)

6.5

BACKFILL METHOD:

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.

2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

3. No odors were noted, and no staining was observed.

APPENDIX D

GROUNDWATER LOW-FLOW MONITORING LOGS

Low-Flow Test Report:

Test Date / Time: 11/21/2017 8:05:10 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB01 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 8.32 ft Total Depth: 13.32 ft Initial Depth to Water: 8.22 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 10.8 ft Estimated Total Volume Pumped: 540 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 3.48 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/21/2017 8:05 AM	00:00	7.45 pH	10.31 °C	1,098.8 µS/cm	5.57 mg/L	131.51 NTU	-18.7 mV	8.22 ft	90.00 ml/min
11/21/2017 8:08 AM	03:00	7.28 pH	11.71 °C	1,021.7 µS/cm	1.00 mg/L	410.39 NTU	-12.3 mV	10.55 ft	90.00 ml/min
11/21/2017 8:11 AM	06:00	7.23 pH	11.92 °C	574.44 µS/cm	2.10 mg/L	1,406.3 NTU	-8.2 mV	11.70 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB01-GW	Sample collected at 0815. Dark brown, turbid, HC odor, sheen. Well was going dry during purging and was sampled before stabilization or 30 minutes. PAHs and metals collected into 1L amber then decanted.

Low-Flow Test Report:

Test Date / Time: 11/21/2017 7:13:10 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB02 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.76 ft Total Depth: 19.76 ft Initial Depth to Water: 13.94 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17.7 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 2.78 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/21/2017 7:13 AM	00:00	7.16 pH	13.60 °C	3,195.8 µS/cm	7.44 mg/L	58.15 NTU	90.0 mV	13.94 ft	90.00 ml/min
11/21/2017 7:16 AM	03:00	6.89 pH	13.11 °C	3,334.5 µS/cm	0.73 mg/L	48.53 NTU	56.7 mV	15.66 ft	90.00 ml/min
11/21/2017 7:19 AM	06:00	6.88 pH	12.70 °C	3,353.3 µS/cm	0.65 mg/L	52.77 NTU	48.0 mV	16.32 ft	90.00 ml/min
11/21/2017 7:22 AM	09:00	6.86 pH	12.56 °C	3,380.1 µS/cm	0.50 mg/L	81.22 NTU	43.3 mV	16.66 ft	90.00 ml/min
11/21/2017 7:25 AM	12:00	6.88 pH	12.09 °C	3,443.4 µS/cm	0.33 mg/L	742.47 NTU	39.4 mV	16.70 ft	90.00 ml/min
11/21/2017 7:28 AM	15:00	6.88 pH	11.74 °C	3,474.6 µS/cm	0.17 mg/L	1,859.3 NTU	30.4 mV	16.72 ft	90.00 ml/min
11/21/2017 7:31 AM	18:00	6.89 pH	11.57 °C	3,487.4 µS/cm	0.18 mg/L	1,696.2 NTU	25.2 mV	16.72 ft	90.00 ml/min
11/21/2017 7:34 AM	21:00	6.89 pH	11.53 °C	3,506.9 µS/cm	0.26 mg/L	1,392.5 NTU	21.6 mV	16.72 ft	90.00 ml/min
11/21/2017 7:37 AM	24:00	6.89 pH	11.31 °C	3,515.2 µS/cm	0.34 mg/L	956.30 NTU	18.3 mV	16.72 ft	90.00 ml/min
11/21/2017 7:40 AM	27:00	6.88 pH	11.22 °C	3,536.1 µS/cm	0.37 mg/L	637.84 NTU	15.0 mV	16.72 ft	90.00 ml/min
11/21/2017 7:43 AM	30:00	6.88 pH	11.17 °C	3,548.5 µS/cm	0.37 mg/L	537.81 NTU	11.4 mV	16.72 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB02-GW	Sample collected at 0745. Clear.

Low-Flow Test Report:

Test Date / Time: 11/21/2017 11:24:02 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB03 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.68 ft Total Depth: 19.68 ft Initial Depth to Water: 12.75 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17.5 ft Estimated Total Volume Pumped: 1620 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 5.30 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/21/2017 11:24 AM	00:00	9.38 pH	13.54 °C	1,907.7 µS/cm	1.54 mg/L	384.12 NTU	-46.8 mV	12.75 ft	90.00 ml/min
11/21/2017 11:27 AM	03:00	8.98 pH	14.20 °C	1,926.0 µS/cm	0.04 mg/L	3,039.5 NTU	-50.7 mV	14.60 ft	90.00 ml/min
11/21/2017 11:30 AM	06:00	8.64 pH	14.47 °C	1,909.3 µS/cm	-0.02 mg/L	3,123.4 NTU	-224.8 mV	15.32 ft	90.00 ml/min
11/21/2017 11:33 AM	09:00	8.37 pH	14.38 °C	1,859.0 µS/cm	-0.03 mg/L	1,962.5 NTU	-240.3 mV	16.10 ft	90.00 ml/min
11/21/2017 11:36 AM	12:00	8.48 pH	14.42 °C	1,804.3 µS/cm	-0.04 mg/L	1,014.1 NTU	-253.6 mV	16.79 ft	90.00 ml/min
11/21/2017 11:39 AM	15:00	8.71 pH	14.34 °C	1,764.2 µS/cm	-0.04 mg/L	951.80 NTU	-265.7 mV	17.29 ft	90.00 ml/min
11/21/2017 11:42 AM	18:00	9.00 pH	14.06 °C	1,737.4 µS/cm	-0.04 mg/L	858.96 NTU	-281.3 mV	18.05 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB03-GW	Sample collected at 1145. Gray, turbid , HC odor, sheen. Well was going dry during purging and was sampled before stabilization or 30 minutes. No PAHs and metals collected for laboratory analysis due to well going dry while collecting samples and well did not recharge.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 4:24:34 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB04 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 15.02 ft Total Depth: 20.02 ft Initial Depth to Water: 12.85 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17.5 ft Estimated Total Volume Pumped: 810 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 4.35 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 4:24 PM	00:00	8.52 pH	13.24 °C	2,259.9 µS/cm	1.89 mg/L	67.82 NTU	-23.4 mV	12.85 ft	90.00 ml/min
11/20/2017 4:27 PM	03:00	8.86 pH	13.59 °C	2,128.5 µS/cm	0.58 mg/L	26.02 NTU	-42.8 mV	15.69 ft	90.00 ml/min
11/20/2017 4:30 PM	06:00	8.82 pH	13.61 °C	2,056.9 µS/cm	1.11 mg/L	9.39 NTU	-45.5 mV	16.35 ft	90.00 ml/min
11/20/2017 4:33 PM	09:00	8.59 pH	13.52 °C	5.04 µS/cm	10.12 mg/L	0.25 NTU	-39.0 mV	17.20 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB04-GW	Sample collected at 1635. Clear.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 3:34:47 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB05 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 19.6 ft Total Depth: 24.6 ft Initial Depth to Water: 17.70 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 22.6 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 0.11 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 3:34 PM	00:00	6.79 pH	14.04 °C	2,508.9 µS/cm	3.81 mg/L	4,892.6 NTU	-35.3 mV	17.70 ft	90.00 ml/min
11/20/2017 3:37 PM	03:00	6.73 pH	14.06 °C	2,556.7 µS/cm	0.39 mg/L	2,224.1 NTU	-48.9 mV	17.81 ft	90.00 ml/min
11/20/2017 3:40 PM	06:00	6.75 pH	14.19 °C	2,560.6 µS/cm	0.20 mg/L	946.04 NTU	-56.1 mV	17.81 ft	90.00 ml/min
11/20/2017 3:43 PM	09:00	6.77 pH	14.17 °C	2,551.5 µS/cm	0.15 mg/L	598.31 NTU	-61.4 mV	17.81 ft	90.00 ml/min
11/20/2017 3:46 PM	12:00	6.78 pH	14.17 °C	2,540.7 µS/cm	0.13 mg/L	528.33 NTU	-66.3 mV	17.81 ft	90.00 ml/min
11/20/2017 3:49 PM	15:00	6.79 pH	14.26 °C	2,523.8 µS/cm	0.12 mg/L	417.61 NTU	-70.8 mV	17.81 ft	90.00 ml/min
11/20/2017 3:52 PM	18:00	6.81 pH	14.19 °C	2,501.8 µS/cm	0.12 mg/L	377.92 NTU	-74.4 mV	17.81 ft	90.00 ml/min
11/20/2017 3:55 PM	21:00	6.82 pH	14.09 °C	2,482.0 µS/cm	0.12 mg/L	283.26 NTU	-77.6 mV	17.81 ft	90.00 ml/min
11/20/2017 3:58 PM	24:00	6.83 pH	14.07 °C	2,464.4 µS/cm	0.12 mg/L	233.52 NTU	-80.4 mV	17.81 ft	90.00 ml/min
11/20/2017 4:01 PM	27:00	6.84 pH	14.13 °C	2,450.5 µS/cm	0.12 mg/L	223.16 NTU	-83.2 mV	17.81 ft	90.00 ml/min
11/20/2017 4:04 PM	30:00	6.85 pH	14.16 °C	2,433.6 µS/cm	0.10 mg/L	175.24 NTU	-85.9 mV	17.81 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB05-GW	Sample collected at 1605. Clear

Low-Flow Test Report:

Test Date / Time: 11/21/2017 10:27:02 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB06 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 19.49 ft Total Depth: 24.49 ft Initial Depth to Water: 18.96 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 22.5 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 0.75 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/21/2017 10:27 AM	00:00	7.59 pH	11.68 °C	1,465.5 µS/cm	5.36 mg/L	620.73 NTU	-66.1 mV	18.96 ft	90.00 ml/min
11/21/2017 10:30 AM	03:00	7.55 pH	12.71 °C	1,417.7 µS/cm	0.76 mg/L	1,122.8 NTU	-131.3 mV	19.71 ft	90.00 ml/min
11/21/2017 10:33 AM	06:00	7.31 pH	13.27 °C	1,638.7 µS/cm	0.24 mg/L	1,057.2 NTU	-128.9 mV	19.71 ft	90.00 ml/min
11/21/2017 10:36 AM	09:00	7.18 pH	13.47 °C	1,749.0 µS/cm	0.11 mg/L	422.32 NTU	-131.6 mV	19.71 ft	90.00 ml/min
11/21/2017 10:39 AM	12:00	7.10 pH	13.46 °C	1,825.7 µS/cm	0.06 mg/L	239.47 NTU	-134.4 mV	19.71 ft	90.00 ml/min
11/21/2017 10:42 AM	15:00	7.05 pH	13.44 °C	1,875.5 µS/cm	0.04 mg/L	243.46 NTU	-136.4 mV	19.71 ft	90.00 ml/min
11/21/2017 10:45 AM	18:00	7.03 pH	13.49 °C	1,905.1 µS/cm	0.03 mg/L	181.78 NTU	-138.3 mV	19.71 ft	90.00 ml/min
11/21/2017 10:48 AM	21:00	7.02 pH	13.54 °C	1,926.6 µS/cm	0.03 mg/L	151.00 NTU	-139.8 mV	19.71 ft	90.00 ml/min
11/21/2017 10:51 AM	24:00	7.01 pH	13.69 °C	1,955.3 µS/cm	0.02 mg/L	100.09 NTU	-140.8 mV	19.71 ft	90.00 ml/min
11/21/2017 10:54 AM	27:00	7.00 pH	13.77 °C	1,970.7 µS/cm	0.02 mg/L	92.23 NTU	-142.0 mV	19.71 ft	90.00 ml/min
11/21/2017 10:57 AM	30:00	6.99 pH	13.77 °C	1,983.7 µS/cm	0.01 mg/L	79.91 NTU	-143.1 mV	19.71 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB06-GW	Sample collected at 1100. Clear, HC odor. Duplicate sample collected as DUP-GW2.

Low-Flow Test Report:

Test Date / Time: 11/21/2017 8:44:23 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB07 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 19.78 ft Total Depth: 24.78 ft Initial Depth to Water: 19.03 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 22.8 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 0.38 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/21/2017 8:44 AM	00:00	7.62 pH	8.74 °C	2,802.6 µS/cm	7.44 mg/L	307.21 NTU	30.8 mV	19.03 ft	90.00 ml/min
11/21/2017 8:47 AM	03:00	7.22 pH	11.00 °C	2,705.5 µS/cm	0.64 mg/L	166.42 NTU	-13.8 mV	19.41 ft	90.00 ml/min
11/21/2017 8:50 AM	06:00	7.11 pH	11.90 °C	2,707.0 µS/cm	0.30 mg/L	66.17 NTU	-42.8 mV	19.41 ft	90.00 ml/min
11/21/2017 8:53 AM	09:00	7.09 pH	12.11 °C	2,715.9 µS/cm	0.20 mg/L	44.27 NTU	-55.6 mV	19.41 ft	90.00 ml/min
11/21/2017 8:56 AM	12:00	7.09 pH	12.29 °C	2,725.6 µS/cm	0.16 mg/L	29.35 NTU	-63.2 mV	19.41 ft	90.00 ml/min
11/21/2017 8:59 AM	15:00	7.09 pH	12.46 °C	2,734.1 µS/cm	0.14 mg/L	24.03 NTU	-68.8 mV	19.41 ft	90.00 ml/min
11/21/2017 9:02 AM	18:00	7.10 pH	12.45 °C	2,744.2 µS/cm	0.12 mg/L	20.15 NTU	-73.1 mV	19.41 ft	90.00 ml/min
11/21/2017 9:05 AM	21:00	7.11 pH	12.46 °C	2,749.7 µS/cm	0.11 mg/L	13.46 NTU	-76.8 mV	19.41 ft	90.00 ml/min
11/21/2017 9:08 AM	24:00	7.11 pH	12.68 °C	2,766.8 µS/cm	0.10 mg/L	8.15 NTU	-80.4 mV	19.41 ft	90.00 ml/min
11/21/2017 9:11 AM	27:00	7.11 pH	12.76 °C	2,773.0 µS/cm	0.09 mg/L	7.49 NTU	-83.3 mV	19.41 ft	90.00 ml/min
11/21/2017 9:14 AM	30:00	7.12 pH	12.78 °C	2,784.7 µS/cm	0.09 mg/L	5.00 NTU	-85.8 mV	19.41 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB07-GW	Sample collected at 0915. Clear, HC odor. Duplicate sample collected as DUP-GW1.

Low-Flow Test Report:

Test Date / Time: 11/21/2017 9:42:25 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB08 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 13.89 ft Total Depth: 18.89 ft Initial Depth to Water: 13.09 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 16.6 ft Estimated Total Volume Pumped: 810 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 4.51 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/21/2017 9:42 AM	00:00	7.62 pH	10.93 °C	2,456.1 µS/cm	5.78 mg/L	419.80 NTU	-69.9 mV	13.09 ft	90.00 ml/min
11/21/2017 9:45 AM	03:00	7.47 pH	12.14 °C	2,406.2 µS/cm	0.86 mg/L	843.95 NTU	-119.8 mV	16.43 ft	90.00 ml/min
11/21/2017 9:48 AM	06:00	7.48 pH	12.12 °C	2,254.2 µS/cm	1.00 mg/L	1,714.8 NTU	-123.6 mV	17.01 ft	90.00 ml/min
11/21/2017 9:51 AM	09:00	7.49 pH	12.09 °C	2,239.9 µS/cm	0.82 mg/L	4,854.5 NTU	-122.7 mV	17.60 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB08-GW	Sample collected at 0955. Dark brown, turbid, HC odor. Well was going dry during purging and was sampled before stabilization or 30 minutes. No PAHs and metals collected for laboratory analysis due to well going dry while collecting samples and well did not recharge.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 2:44:45 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB09 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 15.01 ft Total Depth: 20.01 ft Initial Depth to Water: 11.44 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17.5 ft Estimated Total Volume Pumped: 2430 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 3.79 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 2:44 PM	00:00	6.94 pH	16.41 °C	4,759.4 µS/cm	2.22 mg/L	81.36 NTU	9.1 mV	11.44 ft	90.00 ml/min
11/20/2017 2:47 PM	03:00	6.92 pH	16.91 °C	4,864.4 µS/cm	2.40 mg/L	74.50 NTU	-3.2 mV	13.40 ft	90.00 ml/min
11/20/2017 2:50 PM	06:00	6.86 pH	16.92 °C	5,004.4 µS/cm	2.04 mg/L	42.99 NTU	-6.5 mV	14.07 ft	90.00 ml/min
11/20/2017 2:53 PM	09:00	6.83 pH	16.93 °C	5,089.0 µS/cm	1.68 mg/L	29.08 NTU	-8.8 mV	14.69 ft	90.00 ml/min
11/20/2017 2:56 PM	12:00	6.81 pH	16.94 °C	5,141.0 µS/cm	1.39 mg/L	16.58 NTU	-11.7 mV	15.09 ft	90.00 ml/min
11/20/2017 2:59 PM	15:00	6.79 pH	16.74 °C	5,189.0 µS/cm	1.07 mg/L	11.57 NTU	-14.1 mV	15.23 ft	90.00 ml/min
11/20/2017 3:02 PM	18:00	6.77 pH	16.61 °C	5,239.6 µS/cm	0.77 mg/L	41.70 NTU	-15.7 mV	15.23 ft	90.00 ml/min
11/20/2017 3:05 PM	21:00	6.77 pH	16.48 °C	5,215.7 µS/cm	0.69 mg/L	38.76 NTU	-17.5 mV	15.23 ft	90.00 ml/min
11/20/2017 3:08 PM	24:00	6.78 pH	16.43 °C	5,223.4 µS/cm	0.68 mg/L	21.46 NTU	-18.9 mV	15.23 ft	90.00 ml/min
11/20/2017 3:11 PM	27:00	6.78 pH	16.32 °C	5,199.1 µS/cm	0.69 mg/L	8.24 NTU	-20.0 mV	15.23 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB09-GW	Sample collected at 1515. Clear.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 1:55:06 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB10 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 15.02 ft Total Depth: 20.02 ft Initial Depth to Water: 13.82 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 0.38 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 1:55 PM	00:00	6.79 pH	14.82 °C	2,232.5 µS/cm	1.74 mg/L	154.66 NTU	-22.0 mV	13.82 ft	90.00 ml/min
11/20/2017 1:58 PM	03:00	6.76 pH	14.84 °C	2,263.4 µS/cm	0.29 mg/L	125.66 NTU	-25.7 mV	14.20 ft	90.00 ml/min
11/20/2017 2:01 PM	06:00	6.74 pH	14.81 °C	2,261.6 µS/cm	0.17 mg/L	95.60 NTU	-27.6 mV	14.20 ft	90.00 ml/min
11/20/2017 2:04 PM	09:00	6.74 pH	14.82 °C	2,261.3 µS/cm	0.14 mg/L	73.04 NTU	-29.1 mV	14.20 ft	90.00 ml/min
11/20/2017 2:07 PM	12:00	6.73 pH	14.92 °C	2,264.4 µS/cm	0.12 mg/L	57.00 NTU	-30.4 mV	14.20 ft	90.00 ml/min
11/20/2017 2:10 PM	15:00	6.73 pH	14.93 °C	2,259.5 µS/cm	0.12 mg/L	42.57 NTU	-31.2 mV	14.20 ft	90.00 ml/min
11/20/2017 2:13 PM	18:00	6.73 pH	15.11 °C	2,264.0 µS/cm	0.11 mg/L	45.48 NTU	-32.1 mV	14.20 ft	90.00 ml/min
11/20/2017 2:16 PM	21:00	6.73 pH	15.24 °C	2,264.7 µS/cm	0.12 mg/L	31.67 NTU	-32.7 mV	14.20 ft	90.00 ml/min
11/20/2017 2:19 PM	24:00	6.72 pH	15.34 °C	2,265.4 µS/cm	0.12 mg/L	31.28 NTU	-33.2 mV	14.20 ft	90.00 ml/min
11/20/2017 2:22 PM	27:00	6.72 pH	15.39 °C	2,262.0 µS/cm	0.13 mg/L	20.36 NTU	-33.7 mV	14.20 ft	90.00 ml/min
11/20/2017 2:25 PM	30:00	6.73 pH	15.23 °C	2,256.0 µS/cm	0.13 mg/L	21.52 NTU	-33.8 mV	14.20 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB10-GW	Sample collected at 1425. Clear.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 1:09:51 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB11 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.79 ft Total Depth: 19.79 ft Initial Depth to Water: 14.33 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 18.8 ft Estimated Total Volume Pumped: 2430 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 0.00 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 1:09 PM	00:00	6.64 pH	14.34 °C	1,515.3 µS/cm	1.15 mg/L	374.65 NTU	-22.0 mV	14.33 ft	90.00 ml/min
11/20/2017 1:12 PM	03:00	6.68 pH	14.54 °C	1,414.0 µS/cm	0.25 mg/L	381.76 NTU	-62.2 mV	14.33 ft	90.00 ml/min
11/20/2017 1:15 PM	06:00	6.70 pH	14.60 °C	1,388.5 µS/cm	0.16 mg/L	153.25 NTU	-78.0 mV	14.33 ft	90.00 ml/min
11/20/2017 1:18 PM	09:00	6.72 pH	14.71 °C	1,362.0 µS/cm	0.15 mg/L	81.64 NTU	-87.6 mV	14.33 ft	90.00 ml/min
11/20/2017 1:21 PM	12:00	6.73 pH	14.82 °C	1,341.1 µS/cm	0.17 mg/L	44.55 NTU	-94.4 mV	14.33 ft	90.00 ml/min
11/20/2017 1:24 PM	15:00	6.74 pH	14.85 °C	1,327.4 µS/cm	0.22 mg/L	46.64 NTU	-98.1 mV	14.33 ft	90.00 ml/min
11/20/2017 1:27 PM	18:00	6.74 pH	14.81 °C	1,315.9 µS/cm	0.23 mg/L	34.80 NTU	-100.5 mV	14.33 ft	90.00 ml/min
11/20/2017 1:30 PM	21:00	6.75 pH	14.91 °C	1,307.3 µS/cm	0.27 mg/L	31.87 NTU	-102.4 mV	14.33 ft	90.00 ml/min
11/20/2017 1:33 PM	24:00	6.76 pH	14.91 °C	1,295.0 µS/cm	0.28 mg/L	20.53 NTU	-104.0 mV	14.33 ft	90.00 ml/min
11/20/2017 1:36 PM	27:00	6.76 pH	14.83 °C	1,289.6 µS/cm	0.29 mg/L	21.58 NTU	-105.1 mV	14.33 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB11-GW	Sample collected at 1340. Clear.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 12:20:46 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB12 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 13.93 ft Total Depth: 18.93 ft Initial Depth to Water: 14.50 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 16.9 ft Estimated Total Volume Pumped: 1350 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 3.10 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 12:20 PM	00:00	7.26 pH	15.55 °C	1,468.6 µS/cm	6.03 mg/L	67.89 NTU	-6.0 mV	14.50 ft	90.00 ml/min
11/20/2017 12:23 PM	03:00	7.20 pH	15.80 °C	1,172.5 µS/cm	1.06 mg/L	48.64 NTU	-17.0 mV	15.30 ft	90.00 ml/min
11/20/2017 12:26 PM	06:00	7.23 pH	15.72 °C	1,143.1 µS/cm	1.32 mg/L	269.79 NTU	-18.4 mV	16.05 ft	90.00 ml/min
11/20/2017 12:29 PM	09:00	7.16 pH	15.75 °C	1,337.7 µS/cm	0.86 mg/L	484.03 NTU	-19.5 mV	16.25 ft	90.00 ml/min
11/20/2017 12:32 PM	12:00	7.05 pH	15.42 °C	1,517.6 µS/cm	0.53 mg/L	487.03 NTU	-19.8 mV	16.80 ft	90.00 ml/min
11/20/2017 12:35 PM	15:00	7.07 pH	14.89 °C	361.71 µS/cm	1.84 mg/L	413.69 NTU	-18.6 mV	17.60 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB12-GW	Sample collected at 1240. Well was going dry during purging and was sampled before stabilization or 30 minutes. PAHs and metals collected via disposable bailer into 1L amber then decanted due to well going dry while collecting samples.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 11:33:13 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB13 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 24.57 ft Total Depth: 29.57 ft Initial Depth to Water: 14.35 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 27 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 0.00 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 11:33 AM	00:00	9.06 pH	13.83 °C	827.15 µS/cm	3.59 mg/L	146.75 NTU	-40.4 mV	14.35 ft	90.00 ml/min
11/20/2017 11:36 AM	03:00	8.69 pH	14.90 °C	866.93 µS/cm	0.25 mg/L	5,728.0 NTU	-78.7 mV	14.35 ft	90.00 ml/min
11/20/2017 11:39 AM	06:00	7.70 pH	14.97 °C	1,007.3 µS/cm	0.02 mg/L	4,519.3 NTU	-138.0 mV	14.35 ft	90.00 ml/min
11/20/2017 11:42 AM	09:00	7.45 pH	15.16 °C	1,106.8 µS/cm	0.03 mg/L	2,373.2 NTU	-139.2 mV	14.35 ft	90.00 ml/min
11/20/2017 11:45 AM	12:00	7.36 pH	15.42 °C	1,154.8 µS/cm	0.02 mg/L	1,721.5 NTU	-140.0 mV	14.35 ft	90.00 ml/min
11/20/2017 11:48 AM	15:00	7.33 pH	15.35 °C	1,178.2 µS/cm	0.02 mg/L	1,019.7 NTU	-141.4 mV	14.35 ft	90.00 ml/min
11/20/2017 11:51 AM	18:00	7.30 pH	15.58 °C	1,207.7 µS/cm	0.01 mg/L	840.30 NTU	-142.2 mV	14.35 ft	90.00 ml/min
11/20/2017 11:54 AM	21:00	7.28 pH	15.53 °C	1,217.3 µS/cm	0.00 mg/L	548.47 NTU	-143.6 mV	14.35 ft	90.00 ml/min
11/20/2017 11:57 AM	24:00	7.27 pH	15.62 °C	1,231.3 µS/cm	0.00 mg/L	466.86 NTU	-144.7 mV	14.35 ft	90.00 ml/min
11/20/2017 12:00 PM	27:00	7.26 pH	15.54 °C	1,242.3 µS/cm	-0.01 mg/L	470.48 NTU	-145.0 mV	14.35 ft	90.00 ml/min
11/20/2017 12:03 PM	30:00	7.24 pH	15.92 °C	1,261.2 µS/cm	0.00 mg/L	351.32 NTU	-145.8 mV	14.35 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB13-GW	Sample collected at 1205. Clear.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 10:42:45 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB14 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 24.57 ft Total Depth: 29.57 ft Initial Depth to Water: 14.70 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 27 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 0.00 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 10:42 AM	00:00	8.64 pH	11.39 °C	933.73 µS/cm	2.79 mg/L	344.07 NTU	-0.8 mV	14.70 ft	90.00 ml/min
11/20/2017 10:45 AM	03:00	7.56 pH	12.66 °C	1,084.0 µS/cm	0.36 mg/L	1,732.6 NTU	-56.7 mV	14.70 ft	90.00 ml/min
11/20/2017 10:48 AM	06:00	7.29 pH	13.28 °C	1,229.8 µS/cm	0.13 mg/L	1,896.7 NTU	-82.4 mV	14.70 ft	90.00 ml/min
11/20/2017 10:51 AM	09:00	7.25 pH	13.61 °C	1,266.3 µS/cm	0.07 mg/L	1,270.5 NTU	-96.3 mV	14.70 ft	90.00 ml/min
11/20/2017 10:54 AM	12:00	7.25 pH	13.62 °C	1,242.3 µS/cm	0.05 mg/L	1,035.4 NTU	-104.4 mV	14.70 ft	90.00 ml/min
11/20/2017 10:57 AM	15:00	7.22 pH	13.96 °C	1,284.3 µS/cm	0.04 mg/L	609.73 NTU	-109.4 mV	14.70 ft	90.00 ml/min
11/20/2017 11:00 AM	18:00	7.21 pH	13.98 °C	1,286.4 µS/cm	0.03 mg/L	451.11 NTU	-113.6 mV	14.70 ft	90.00 ml/min
11/20/2017 11:03 AM	21:00	7.20 pH	14.15 °C	1,290.4 µS/cm	0.03 mg/L	296.57 NTU	-116.3 mV	14.70 ft	90.00 ml/min
11/20/2017 11:06 AM	24:00	7.20 pH	14.31 °C	1,291.0 µS/cm	0.02 mg/L	246.80 NTU	-117.9 mV	14.70 ft	90.00 ml/min
11/20/2017 11:09 AM	27:00	7.19 pH	14.42 °C	1,295.7 µS/cm	0.01 mg/L	211.14 NTU	-119.6 mV	14.70 ft	90.00 ml/min
11/20/2017 11:12 AM	30:00	7.19 pH	14.30 °C	1,290.3 µS/cm	0.01 mg/L	161.90 NTU	-120.1 mV	14.70 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB14-GW	Sample collected at 1125. Clear.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 9:45:51 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB15 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 11.03 ft Total Depth: 15.03 ft Initial Depth to Water: 8.45 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 12.5 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 3.17 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 9:45 AM	00:00	7.09 pH	10.29 °C	3,667.8 µS/cm	6.67 mg/L	477.62 NTU	-31.8 mV	8.45 ft	90.00 ml/min
11/20/2017 9:48 AM	03:00	6.92 pH	12.51 °C	3,384.0 µS/cm	2.46 mg/L	66.40 NTU	-22.1 mV	9.57 ft	90.00 ml/min
11/20/2017 9:51 AM	06:00	6.94 pH	13.21 °C	3,128.5 µS/cm	3.13 mg/L	68.69 NTU	-15.7 mV	10.23 ft	90.00 ml/min
11/20/2017 9:54 AM	09:00	6.95 pH	13.66 °C	3,094.8 µS/cm	3.54 mg/L	279.01 NTU	-9.8 mV	10.83 ft	90.00 ml/min
11/20/2017 9:57 AM	12:00	6.91 pH	14.02 °C	3,314.6 µS/cm	2.80 mg/L	439.25 NTU	-4.4 mV	11.35 ft	90.00 ml/min
11/20/2017 10:00 AM	15:00	6.90 pH	14.18 °C	3,470.8 µS/cm	2.00 mg/L	295.18 NTU	-0.5 mV	11.62 ft	90.00 ml/min
11/20/2017 10:03 AM	18:00	6.87 pH	14.25 °C	3,587.6 µS/cm	1.49 mg/L	227.25 NTU	2.0 mV	11.62 ft	90.00 ml/min
11/20/2017 10:06 AM	21:00	6.87 pH	14.08 °C	3,601.9 µS/cm	1.39 mg/L	559.12 NTU	4.1 mV	11.62 ft	90.00 ml/min
11/20/2017 10:09 AM	24:00	6.90 pH	13.82 °C	3,581.8 µS/cm	1.61 mg/L	992.40 NTU	5.4 mV	11.62 ft	90.00 ml/min
11/20/2017 10:12 AM	27:00	6.92 pH	13.37 °C	626.59 µS/cm	3.86 mg/L	799.96 NTU	8.2 mV	11.62 ft	90.00 ml/min
11/20/2017 10:15 AM	30:00	6.93 pH	13.06 °C	81.52 µS/cm	4.59 mg/L	781.34 NTU	11.4 mV	11.62 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB15-GW	Sample collected at 1020. Clear.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 8:55:53 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB16 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.86 ft Total Depth: 19.86 ft Initial Depth to Water: 12.83 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17.3 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 3.08 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 8:55 AM	00:00	7.07 pH	9.08 °C	2,982.9 µS/cm	4.99 mg/L	1,155.4 NTU	10.7 mV	12.83 ft	90.00 ml/min
11/20/2017 8:58 AM	03:00	6.93 pH	11.08 °C	2,864.2 µS/cm	0.86 mg/L	255.97 NTU	-5.6 mV	14.82 ft	90.00 ml/min
11/20/2017 9:01 AM	06:00	6.97 pH	11.53 °C	2,938.8 µS/cm	0.89 mg/L	323.53 NTU	-12.1 mV	15.22 ft	90.00 ml/min
11/20/2017 9:04 AM	09:00	6.98 pH	11.83 °C	3,004.3 µS/cm	0.65 mg/L	319.17 NTU	-16.7 mV	15.80 ft	90.00 ml/min
11/20/2017 9:07 AM	12:00	6.97 pH	11.92 °C	3,076.8 µS/cm	0.44 mg/L	626.49 NTU	-29.6 mV	15.91 ft	90.00 ml/min
11/20/2017 9:10 AM	15:00	6.94 pH	11.86 °C	3,101.2 µS/cm	0.25 mg/L	884.68 NTU	-42.1 mV	15.91 ft	90.00 ml/min
11/20/2017 9:13 AM	18:00	6.93 pH	11.75 °C	3,078.0 µS/cm	0.17 mg/L	1,009.2 NTU	-49.9 mV	15.91 ft	90.00 ml/min
11/20/2017 9:16 AM	21:00	6.92 pH	11.84 °C	3,091.5 µS/cm	0.10 mg/L	944.84 NTU	-55.8 mV	15.91 ft	90.00 ml/min
11/20/2017 9:19 AM	24:00	6.91 pH	11.82 °C	3,043.1 µS/cm	0.08 mg/L	1,064.8 NTU	-59.3 mV	15.91 ft	90.00 ml/min
11/20/2017 9:22 AM	27:00	6.90 pH	11.80 °C	3,007.9 µS/cm	0.08 mg/L	669.32 NTU	-61.8 mV	15.91 ft	90.00 ml/min
11/20/2017 9:25 AM	30:00	6.90 pH	11.92 °C	3,003.7 µS/cm	0.06 mg/L	611.13 NTU	-63.2 mV	15.91 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB16-GW	Sample collected at 0930. Brown, slightly cloudy.

Low-Flow Test Report:

Test Date / Time: 11/20/2017 7:55:08 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB17 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.46 ft Total Depth: 19.46 ft Initial Depth to Water: 13.98 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17 ft Estimated Total Volume Pumped: 2929.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 1.32 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/20/2017 7:55 AM	00:00	7.38 pH	8.73 °C	2,144.8 µS/cm	4.19 mg/L	201.69 NTU	18.1 mV	13.98 ft	90.00 ml/min
11/20/2017 7:58 AM	03:00	7.20 pH	11.01 °C	2,106.9 µS/cm	0.45 mg/L	6,825.7 NTU	-65.0 mV	14.61 ft	90.00 ml/min
11/20/2017 8:01 AM	06:00	7.20 pH	11.58 °C	1,656.1 µS/cm	-0.01 mg/L	1,838.6 NTU	-93.9 mV	14.66 ft	90.00 ml/min
11/20/2017 8:04 AM	09:00	7.18 pH	11.77 °C	1,610.4 µS/cm	-0.03 mg/L	3,471.5 NTU	-104.4 mV	14.75 ft	90.00 ml/min
11/20/2017 8:07 AM	12:00	7.15 pH	11.87 °C	1,606.1 µS/cm	-0.03 mg/L	7,533.3 NTU	-109.9 mV	14.85 ft	90.00 ml/min
11/20/2017 8:10 AM	15:00	7.14 pH	12.06 °C	1,611.8 µS/cm	-0.04 mg/L	8,221.1 NTU	-113.5 mV	14.91 ft	90.00 ml/min
11/20/2017 8:13 AM	18:00	7.13 pH	12.19 °C	1,584.0 µS/cm	-0.04 mg/L	6,812.4 NTU	-117.0 mV	14.97 ft	90.00 ml/min
11/20/2017 8:16 AM	21:00	7.12 pH	12.36 °C	1,581.8 µS/cm	-0.04 mg/L	8,154.2 NTU	-119.2 mV	15.04 ft	90.00 ml/min
11/20/2017 8:18 AM	23:33	7.11 pH	12.24 °C	1,567.7 µS/cm	-0.04 mg/L	9,913.5 NTU	-120.1 mV	15.09 ft	90.00 ml/min
11/20/2017 8:21 AM	26:33	7.10 pH	12.21 °C	1,561.3 µS/cm		8,470.9 NTU	-121.2 mV	15.15 ft	90.00 ml/min
11/20/2017 8:24 AM	29:33	7.10 pH	11.99 °C	1,551.4 µS/cm		9,259.4 NTU	-122.6 mV	15.23 ft	90.00 ml/min
11/20/2017 8:27 AM	32:33	7.10 pH	11.87 °C	1,541.1 µS/cm		9,081.9 NTU	-123.4 mV	15.30 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB17-GW	Sample collected at 0830. Grayish-brown, turbid. Collected PAHs and metals in 1 amber and decanted.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 10:26:39 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB18 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 17.31 ft Total Depth: 22.31 ft Initial Depth to Water: 13.71 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 19.8 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 2.52 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 10:26 AM	00:00	7.07 pH	11.14 °C	1,740.8 µS/cm	5.01 mg/L	547.41 NTU	66.1 mV	13.71 ft	90.00 ml/min
11/17/2017 10:29 AM	03:00	7.08 pH	12.90 °C	1,729.7 µS/cm	1.30 mg/L	741.29 NTU	26.6 mV	15.45 ft	90.00 ml/min
11/17/2017 10:32 AM	06:00	7.08 pH	13.19 °C	1,720.8 µS/cm	1.06 mg/L	2,515.1 NTU	8.7 mV	15.89 ft	90.00 ml/min
11/17/2017 10:35 AM	09:00	7.17 pH	13.33 °C	1,499.3 µS/cm	0.73 mg/L	4,770.1 NTU	-9.9 mV	15.99 ft	90.00 ml/min
11/17/2017 10:38 AM	12:00	7.16 pH	13.45 °C	1,465.6 µS/cm	0.56 mg/L	4,486.0 NTU	-33.7 mV	16.17 ft	90.00 ml/min
11/17/2017 10:41 AM	15:00	7.16 pH	13.35 °C	1,451.7 µS/cm	0.46 mg/L	5,710.7 NTU	-44.9 mV	16.23 ft	90.00 ml/min
11/17/2017 10:44 AM	18:00	7.11 pH	13.71 °C	1,580.4 µS/cm	0.31 mg/L	2,489.2 NTU	-79.0 mV	16.23 ft	90.00 ml/min
11/17/2017 10:47 AM	21:00	7.10 pH	13.71 °C	1,633.4 µS/cm	0.40 mg/L	1,180.5 NTU	-98.9 mV	16.23 ft	90.00 ml/min
11/17/2017 10:50 AM	24:00	7.09 pH	13.98 °C	1,666.4 µS/cm	0.33 mg/L	612.32 NTU	-109.3 mV	16.23 ft	90.00 ml/min
11/17/2017 10:53 AM	27:00	7.08 pH	14.00 °C	1,709.8 µS/cm	0.30 mg/L	422.88 NTU	-115.9 mV	16.23 ft	90.00 ml/min
11/17/2017 10:56 AM	30:00	7.07 pH	14.01 °C	1,750.6 µS/cm	0.26 mg/L	235.44 NTU	-122.4 mV	16.23 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB18-GW	Sample collected at 1055. Clear.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 12:20:09 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB19 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.59 ft Total Depth: 19.59 ft Initial Depth to Water: 5.12 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17 ft Estimated Total Volume Pumped: 2866.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 3.97 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 12:20 PM	00:00	7.34 pH	12.82 °C	1,416.9 µS/cm	6.40 mg/L	433.43 NTU	24.4 mV	5.12 ft	90.00 ml/min
11/17/2017 12:23 PM	03:00	7.14 pH	14.03 °C	1,404.8 µS/cm	1.29 mg/L	1,097.1 NTU	-22.0 mV	6.50 ft	90.00 ml/min
11/17/2017 12:26 PM	06:00	7.11 pH	14.95 °C	1,394.2 µS/cm	0.87 mg/L	877.26 NTU	-38.2 mV	6.98 ft	90.00 ml/min
11/17/2017 12:29 PM	09:00	7.10 pH	15.31 °C	1,399.2 µS/cm	0.57 mg/L	847.09 NTU	-50.9 mV	7.45 ft	90.00 ml/min
11/17/2017 12:32 PM	12:00	7.10 pH	15.53 °C	1,392.8 µS/cm	0.44 mg/L	734.25 NTU	-62.4 mV	7.77 ft	90.00 ml/min
11/17/2017 12:35 PM	15:00	7.11 pH	15.48 °C	1,376.8 µS/cm	0.43 mg/L	496.99 NTU	-72.1 mV	8.01 ft	90.00 ml/min
11/17/2017 12:37 PM	16:51	7.11 pH	15.51 °C	1,439.6 µS/cm	0.41 mg/L	459.63 NTU	-77.3 mV	8.15 ft	90.00 ml/min
11/17/2017 12:40 PM	19:51	7.11 pH	15.54 °C	1,379.8 µS/cm	0.36 mg/L	324.94 NTU	-84.7 mV	8.45 ft	90.00 ml/min
11/17/2017 12:43 PM	22:51	7.10 pH	15.48 °C	1,377.0 µS/cm	0.34 mg/L	317.53 NTU	-91.0 mV	8.66 ft	90.00 ml/min
11/17/2017 12:46 PM	25:51	7.09 pH	15.61 °C	1,359.6 µS/cm	0.33 mg/L	225.09 NTU	-97.3 mV	8.80 ft	90.00 ml/min
11/17/2017 12:49 PM	28:51	7.09 pH	15.75 °C	1,423.3 µS/cm	0.31 mg/L	212.40 NTU	-101.8 mV	8.90 ft	90.00 ml/min
11/17/2017 12:52 PM	31:51	7.09 pH	16.08 °C	1,309.3 µS/cm	0.29 mg/L	183.29 NTU	-106.5 mV	9.09 ft	90.00 ml/min

Samples

Sample ID:	Description:
SB19-GW	Sample collected at 1250. Clear.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 1:13:24 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB20 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 24.39 ft Total Depth: 29.39 ft Initial Depth to Water: 18.69 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 26.9 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 1:13 PM	00:00	7.40 pH	13.73 °C	1,469.6 µS/cm	5.27 mg/L	5,816.4 NTU	-15.3 mV	18.69 ft	90.00 ml/min
11/17/2017 1:16 PM	03:00	7.30 pH	14.44 °C	1,465.0 µS/cm	0.37 mg/L	11,828 NTU	-64.3 mV	18.69 ft	90.00 ml/min
11/17/2017 1:19 PM	06:00	7.27 pH	14.60 °C	1,424.8 µS/cm	0.18 mg/L	7,056.4 NTU	-83.4 mV	18.69 ft	90.00 ml/min
11/17/2017 1:22 PM	09:00	7.25 pH	14.86 °C	1,409.4 µS/cm	0.18 mg/L	2,333.4 NTU	-98.6 mV	18.69 ft	90.00 ml/min
11/17/2017 1:25 PM	12:00	7.24 pH	14.92 °C	1,394.1 µS/cm	0.16 mg/L	1,215.1 NTU	-103.8 mV	18.69 ft	90.00 ml/min
11/17/2017 1:28 PM	15:00	7.22 pH	15.10 °C	1,384.9 µS/cm	0.15 mg/L	892.58 NTU	-104.6 mV	18.69 ft	90.00 ml/min
11/17/2017 1:31 PM	18:00	7.21 pH	15.12 °C	1,380.5 µS/cm	0.14 mg/L	623.43 NTU	-106.8 mV	18.69 ft	90.00 ml/min
11/17/2017 1:34 PM	21:00	7.21 pH	15.13 °C	1,377.8 µS/cm	0.13 mg/L	709.18 NTU	-106.9 mV	18.69 ft	90.00 ml/min
11/17/2017 1:37 PM	24:00	7.21 pH	14.94 °C	1,265.2 µS/cm	0.12 mg/L	823.13 NTU	-120.2 mV	18.69 ft	90.00 ml/min
11/17/2017 1:40 PM	27:00	7.20 pH	14.99 °C	1,260.5 µS/cm	0.12 mg/L	474.17 NTU	-125.7 mV	18.69 ft	90.00 ml/min
11/17/2017 1:43 PM	30:00	7.20 pH	15.09 °C	1,258.1 µS/cm	0.11 mg/L	372.16 NTU	-127.4 mV	18.69 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB20-GW	Sample collected at 1345. Sample collected in triplicate as a MS/MSD. Clear.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 2:19:03 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB21 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.52 ft Total Depth: 19.52 ft Initial Depth to Water: 9.74 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 2.25 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 2:19 PM	00:00	6.71 pH	15.89 °C	2,277.2 µS/cm	0.96 mg/L	1,461.7 NTU	-27.1 mV	9.74 ft	90.00 ml/min
11/17/2017 2:22 PM	03:00	6.70 pH	16.72 °C	2,310.5 µS/cm	0.25 mg/L	6,955.8 NTU	-48.8 mV	10.41 ft	90.00 ml/min
11/17/2017 2:25 PM	06:00	6.70 pH	16.88 °C	2,296.7 µS/cm	0.18 mg/L	3,196.8 NTU	-58.8 mV	10.66 ft	90.00 ml/min
11/17/2017 2:28 PM	09:00	6.70 pH	16.99 °C	2,297.9 µS/cm	0.17 mg/L	1,662.7 NTU	-64.0 mV	10.90 ft	90.00 ml/min
11/17/2017 2:31 PM	12:00	6.69 pH	17.28 °C	2,310.7 µS/cm	0.15 mg/L	783.93 NTU	-66.7 mV	11.09 ft	90.00 ml/min
11/17/2017 2:34 PM	15:00	6.69 pH	17.04 °C	2,299.9 µS/cm	0.14 mg/L	396.68 NTU	-68.8 mV	11.27 ft	90.00 ml/min
11/17/2017 2:37 PM	18:00	6.69 pH	16.99 °C	2,301.0 µS/cm	0.12 mg/L	231.65 NTU	-70.5 mV	11.44 ft	90.00 ml/min
11/17/2017 2:40 PM	21:00	6.69 pH	17.22 °C	2,306.7 µS/cm	0.12 mg/L	160.92 NTU	-71.7 mV	11.61 ft	90.00 ml/min
11/17/2017 2:43 PM	24:00	6.69 pH	17.28 °C	2,306.6 µS/cm	0.11 mg/L	99.36 NTU	-72.6 mV	11.75 ft	90.00 ml/min
11/17/2017 2:46 PM	27:00	6.69 pH	17.30 °C	2,304.8 µS/cm	0.10 mg/L	87.71 NTU	-73.5 mV	11.90 ft	90.00 ml/min
11/17/2017 2:49 PM	30:00	6.69 pH	17.40 °C	2,307.2 µS/cm	0.09 mg/L	66.64 NTU	-74.1 mV	11.99 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB21-GW	Sample collected at 1450. Clear. Sample collected in triplicate as a MS/MSD.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 3:22:38 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB22 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 24.75 ft Total Depth: 29.75 ft Initial Depth to Water: 13.45 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 27.25 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 12.06 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 3:22 PM	00:00	7.29 pH	15.79 °C	1,623.3 µS/cm	3.04 mg/L	129.60 NTU	3.5 mV	13.45 ft	90.00 ml/min
11/17/2017 3:25 PM	03:00	7.29 pH	16.26 °C	1,618.3 µS/cm	2.40 mg/L	126.27 NTU	-21.0 mV	15.40 ft	90.00 ml/min
11/17/2017 3:28 PM	06:00	7.28 pH	16.38 °C	1,638.3 µS/cm	2.68 mg/L	156.03 NTU	-33.0 mV	16.39 ft	90.00 ml/min
11/17/2017 3:31 PM	09:00	7.29 pH	16.42 °C	1,645.8 µS/cm	3.24 mg/L	128.68 NTU	-35.8 mV	17.60 ft	90.00 ml/min
11/17/2017 3:34 PM	12:00	7.28 pH	16.50 °C	1,654.9 µS/cm	3.57 mg/L	69.84 NTU	-34.7 mV	18.91 ft	90.00 ml/min
11/17/2017 3:37 PM	15:00	7.23 pH	16.39 °C	1,683.0 µS/cm	3.30 mg/L	41.60 NTU	-35.2 mV	19.85 ft	90.00 ml/min
11/17/2017 3:40 PM	18:00	7.19 pH	16.25 °C	1,729.9 µS/cm	2.97 mg/L	30.60 NTU	-38.5 mV	21.05 ft	90.00 ml/min
11/17/2017 3:43 PM	21:00	7.17 pH	16.19 °C	1,745.8 µS/cm	2.94 mg/L	53.22 NTU	-40.3 mV	22.30 ft	90.00 ml/min
11/17/2017 3:46 PM	24:00	7.15 pH	16.29 °C	1,758.4 µS/cm	3.03 mg/L	36.34 NTU	-40.4 mV	23.59 ft	90.00 ml/min
11/17/2017 3:49 PM	27:00	7.15 pH	16.26 °C	1,746.8 µS/cm	3.17 mg/L	39.43 NTU	-38.8 mV	24.60 ft	90.00 ml/min
11/17/2017 3:52 PM	30:00	7.15 pH	16.00 °C	1,733.6 µS/cm	3.33 mg/L	67.54 NTU	-37.1 mV	25.51 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB22-GW	Sample collected at 1555. Clear

Low-Flow Test Report:

Test Date / Time: 11/17/2017 4:20:41 PM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB23 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 19.28 ft Total Depth: 24.28 ft Initial Depth to Water: 14.45 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 21.8 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 3.5 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 4:20 PM	00:00	7.26 pH	14.11 °C	2,370.6 µS/cm	6.69 mg/L	675.58 NTU	-27.7 mV	14.45 ft	90.00 ml/min
11/17/2017 4:23 PM	03:00	7.13 pH	15.83 °C	2,418.7 µS/cm	0.93 mg/L	679.34 NTU	-108.6 mV	14.55 ft	90.00 ml/min
11/17/2017 4:26 PM	06:00	7.12 pH	16.51 °C	2,408.5 µS/cm	0.96 mg/L	1,246.4 NTU	-114.3 mV	14.60 ft	90.00 ml/min
11/17/2017 4:29 PM	09:00	7.10 pH	16.65 °C	2,431.3 µS/cm	1.06 mg/L	1,554.5 NTU	-114.0 mV	14.80 ft	90.00 ml/min
11/17/2017 4:32 PM	12:00	7.09 pH	16.74 °C	2,435.2 µS/cm	1.26 mg/L	1,088.3 NTU	-110.5 mV	15.32 ft	90.00 ml/min
11/17/2017 4:35 PM	15:00	7.08 pH	16.92 °C	2,426.2 µS/cm	1.39 mg/L	1,021.6 NTU	-109.1 mV	15.81 ft	90.00 ml/min
11/17/2017 4:38 PM	18:00	7.07 pH	16.86 °C	2,406.9 µS/cm	1.51 mg/L	1,139.8 NTU	-105.5 mV	16.27 ft	90.00 ml/min
11/17/2017 4:41 PM	21:00	7.05 pH	16.87 °C	2,402.1 µS/cm	1.55 mg/L	972.40 NTU	-101.8 mV	16.70 ft	90.00 ml/min
11/17/2017 4:44 PM	24:00	7.04 pH	16.85 °C	2,399.0 µS/cm	1.64 mg/L	1,163.9 NTU	-98.1 mV	16.98 ft	90.00 ml/min
11/17/2017 4:47 PM	27:00	7.04 pH	16.75 °C	2,367.5 µS/cm	1.63 mg/L	1,337.9 NTU	-96.7 mV	17.41 ft	90.00 ml/min
11/17/2017 4:50 PM	30:00	7.04 pH	16.70 °C	2,337.1 µS/cm	1.74 mg/L	1,737.5 NTU	-95.4 mV	17.95 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB23-GW	Sample collected at 1655. Brown, slightly cloudy.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 11:24:12 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: SB24 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.32 ft Total Depth: 19.32 ft Initial Depth to Water: 7.9 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 19.8 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 3.7 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 11:24 AM	00:00	7.25 pH	12.71 °C	1,597.4 µS/cm	4.00 mg/L	992.92 NTU	-8.3 mV	7.90 ft	90.00 ml/min
11/17/2017 11:27 AM	03:00	7.19 pH	14.25 °C	1,559.5 µS/cm	3.65 mg/L	1,742.4 NTU	-29.4 mV	10.00 ft	90.00 ml/min
11/17/2017 11:30 AM	06:00	7.15 pH	15.09 °C	1,556.0 µS/cm	3.38 mg/L	1,762.9 NTU	-34.6 mV	10.36 ft	90.00 ml/min
11/17/2017 11:33 AM	09:00	7.13 pH	15.48 °C	1,541.9 µS/cm	3.02 mg/L	1,358.7 NTU	-40.4 mV	10.63 ft	90.00 ml/min
11/17/2017 11:36 AM	12:00	7.12 pH	15.63 °C	1,529.5 µS/cm	2.79 mg/L	808.52 NTU	-45.5 mV	10.91 ft	90.00 ml/min
11/17/2017 11:39 AM	15:00	7.12 pH	15.69 °C	1,523.3 µS/cm	2.65 mg/L	721.11 NTU	-49.5 mV	11.09 ft	90.00 ml/min
11/17/2017 11:42 AM	18:00	7.12 pH	15.66 °C	1,513.1 µS/cm	2.64 mg/L	9,282.1 NTU	-49.8 mV	11.15 ft	90.00 ml/min
11/17/2017 11:45 AM	21:00	7.12 pH	15.42 °C	1,350.7 µS/cm	0.91 mg/L	4,008.3 NTU	-60.1 mV	11.23 ft	90.00 ml/min
11/17/2017 11:48 AM	24:00	7.10 pH	15.54 °C	1,343.8 µS/cm	2.40 mg/L	8,599.8 NTU	-58.2 mV	11.37 ft	90.00 ml/min
11/17/2017 11:51 AM	27:00	7.09 pH	15.76 °C	1,358.3 µS/cm	2.09 mg/L	2,929.3 NTU	-59.9 mV	11.48 ft	90.00 ml/min
11/17/2017 11:54 AM	30:00	7.09 pH	15.72 °C	1,362.4 µS/cm	1.80 mg/L	3,120.7 NTU	-67.8 mV	11.60 ft	90.00 ml/min

Samples

Sample ID:	Description:

SB24-GW	Sample collected at 1155. Brown, cloudy. Collected PAHs and metals in 1 amber and decanted.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 7:20:13 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: GP1 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.52 ft Total Depth: 19.52 ft Initial Depth to Water: 12.49 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 17.02 ft Estimated Total Volume Pumped: 2863.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 1.18 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 7:20 AM	00:00	6.43 pH	11.20 °C	4,256.4 µS/cm	4.10 mg/L	165.57 NTU	56.3 mV	12.49 ft	90.00 ml/min
11/17/2017 7:23 AM	03:00	6.74 pH	13.29 °C	4,144.5 µS/cm	0.60 mg/L	531.14 NTU	9.3 mV	12.97 ft	90.00 ml/min
11/17/2017 7:26 AM	06:00	6.76 pH	14.01 °C	3,913.3 µS/cm	0.43 mg/L	439.07 NTU	-5.9 mV	13.14 ft	90.00 ml/min
11/17/2017 7:28 AM	07:49	6.77 pH	14.16 °C	3,858.0 µS/cm	0.43 mg/L	416.31 NTU	-7.8 mV	13.19 ft	90.00 ml/min
11/17/2017 7:31 AM	10:49	6.77 pH	14.46 °C	3,830.8 µS/cm	0.34 mg/L	357.96 NTU	-8.8 mV	13.24 ft	90.00 ml/min
11/17/2017 7:34 AM	13:49	6.78 pH	14.72 °C	3,807.2 µS/cm	0.27 mg/L	214.13 NTU	-10.8 mV	13.34 ft	90.00 ml/min
11/17/2017 7:37 AM	16:49	6.79 pH	14.64 °C	3,775.4 µS/cm	0.22 mg/L	165.71 NTU	-11.7 mV	13.38 ft	90.00 ml/min
11/17/2017 7:40 AM	19:49	6.80 pH	14.43 °C	3,774.6 µS/cm	0.20 mg/L	115.98 NTU	-10.1 mV	13.45 ft	90.00 ml/min
11/17/2017 7:43 AM	22:49	6.81 pH	14.60 °C	3,750.6 µS/cm	0.17 mg/L	104.01 NTU	-9.9 mV	13.51 ft	90.00 ml/min
11/17/2017 7:46 AM	25:49	6.81 pH	14.62 °C	3,728.6 µS/cm	0.15 mg/L	69.81 NTU	-9.9 mV	13.57 ft	90.00 ml/min
11/17/2017 7:49 AM	28:49	6.81 pH	14.64 °C	3,732.5 µS/cm	0.14 mg/L	75.22 NTU	-9.7 mV	13.60 ft	90.00 ml/min
11/17/2017 7:52 AM	31:49	6.82 pH	14.40 °C	3,719.2 µS/cm	0.12 mg/L	136.29 NTU	-7.9 mV	13.67 ft	90.00 ml/min

Samples

Sample ID:	Description:
GP1-GW	Sample collected at 0755. Sample collected in triplicate as a MS/MSD. Clear.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 9:38:36 AM
Project: Convention Center/Hotel Site - GP2
Operator Name: Mark Sparks

Location Name: GP2 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 9.52 ft Total Depth: 14.52 ft Initial Depth to Water: 5.44 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 11 ft Estimated Total Volume Pumped: 810 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 5.76 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 9:38 AM	00:00	7.91 pH	9.22 °C	514.29 µS/cm	8.65 mg/L	676.76 NTU	49.0 mV	5.44 ft	90.00 ml/min
11/17/2017 9:41 AM	03:00	7.62 pH	9.87 °C	149.50 µS/cm	6.54 mg/L	836.40 NTU	25.4 mV	8.75 ft	90.00 ml/min
11/17/2017 9:44 AM	06:00	7.59 pH	9.66 °C	21.10 µS/cm	6.10 mg/L	552.88 NTU	28.7 mV	11.20 ft	90.00 ml/min
11/17/2017 9:47 AM	09:00	7.55 pH	10.20 °C	20.11 µS/cm	5.50 mg/L	552.38 NTU	27.9 mV	11.20 ft	90.00 ml/min

Samples

Sample ID:	Description:
GP2-GW	Sample collected at 0950. Brown, cloudy. Duplicate sample collected as DUP-GW for VOCs. Well was going dry during purging and was sampled before stabilization or 30 minutes. PAHs and metals collected 11/20/2017 at 0815 via disposable bailer into 1L amber then decanted due to well going dry while collecting samples.

Low-Flow Test Report:

Test Date / Time: 11/17/2017 8:41:29 AM
Project: Convention Center/Hotel Site
Operator Name: Mark Sparks

Location Name: GP3 Latitude: 49.08418 Longitude: 38.19356 Well Diameter: 1 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 11.44 ft Total Depth: 16.44 ft Initial Depth to Water: 11.32 ft	Pump Type: Geotech 0.675" Bladder pump Tubing Type: 1/4 x 1/4 bonded LDPE Pump Intake From TOC: 15.2 ft Estimated Total Volume Pumped: 2430 ml Flow Cell Volume: 130 ml Final Flow Rate: 90 ml/min Final Draw Down: 5.12 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 450128

Test Notes:
Well purged dry. Will allow to recharge and collected samples later in the day VOCS with pump

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
11/17/2017 8:41 AM	00:00	7.21 pH	9.33 °C	4,618.6 µS/cm	7.59 mg/L	1,455.9 NTU	91.5 mV	11.32 ft	90.00 ml/min
11/17/2017 8:44 AM	03:00	7.35 pH	12.61 °C	4,513.6 µS/cm	2.85 mg/L	3,241.7 NTU	59.5 mV	12.66 ft	90.00 ml/min
11/17/2017 8:47 AM	06:00	7.31 pH	13.61 °C	4,131.3 µS/cm	2.98 mg/L	1,972.7 NTU	49.0 mV	13.84 ft	90.00 ml/min
11/17/2017 8:50 AM	09:00	7.26 pH	14.02 °C	3,661.9 µS/cm	3.28 mg/L	1,305.8 NTU	46.3 mV	14.41 ft	90.00 ml/min
11/17/2017 8:53 AM	12:00	7.23 pH	14.00 °C	3,483.0 µS/cm	3.33 mg/L	1,209.0 NTU	47.2 mV	14.63 ft	90.00 ml/min
11/17/2017 8:56 AM	15:00	7.22 pH	13.98 °C	3,525.7 µS/cm	3.17 mg/L	1,398.9 NTU	45.5 mV	14.75 ft	90.00 ml/min
11/17/2017 8:59 AM	18:00	7.20 pH	13.67 °C	3,883.9 µS/cm	2.43 mg/L	1,853.4 NTU	36.8 mV	14.75 ft	90.00 ml/min
11/17/2017 9:02 AM	21:00	7.10 pH	13.54 °C	4,561.9 µS/cm	1.34 mg/L	2,892.2 NTU	15.6 mV	15.50 ft	90.00 ml/min
11/17/2017 9:05 AM	24:00	7.11 pH	13.34 °C	4,571.5 µS/cm	2.85 mg/L	3,571.3 NTU	2.3 mV	16.44 ft	90.00 ml/min
11/17/2017 9:08 AM	27:00	7.12 pH	12.83 °C	4,672.6 µS/cm	2.80 mg/L	2,810.7 NTU	4.5 mV	16.44 ft	90.00 ml/min

Samples

Sample ID:	Description:

GP3-GW	Sample collected at 0910. Brown, cloudy. Duplicate sample collected as DUP-GW for PAHs and metals. Well was going dry during purging and was sampled before stabilization or 30 minutes. PAHs and metals collected via disposable bailer into 1L amber then decanted due to well going dry while collecting samples.

APPENDIX E

LABORATORY DATA REPORTS

December 18, 2017

Mr. Chris Shaw
SME
5835 W 74th Street
Indianapolis, IN 46278

RE: Project: Convention Center - Hotel Site
Pace Project No.: 50184326

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on November 14, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report; Cr+6 added to samples SB2(0-2) and SB6(0-2) per client request. dss

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 003971

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-17-11

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50184326001	SB01 (0-2)	Solid	11/13/17 10:15	11/14/17 13:25
50184326002	SB01 (10-12)	Solid	11/13/17 10:40	11/14/17 13:25
50184326003	SB02 (0-2)	Solid	11/13/17 11:15	11/14/17 13:25
50184326004	SB02 (16-18)	Solid	11/13/17 11:45	11/14/17 13:25
50184326005	SB03 (12-14)	Solid	11/13/17 12:40	11/14/17 13:25
50184326006	SB04 (0-2)	Solid	11/13/17 13:30	11/14/17 13:25
50184326007	SB04 (14-16)	Solid	11/13/17 13:50	11/14/17 13:25
50184326008	SB05 (0-2)	Solid	11/13/17 14:15	11/14/17 13:25
50184326009	SB05 (14-16)	Solid	11/13/17 14:30	11/14/17 13:25
50184326010	SB06 (0-2)	Solid	11/13/17 14:55	11/14/17 13:25
50184326011	SB06 (16-18)	Solid	11/13/17 15:10	11/14/17 13:25
50184326013	SB07 (14-16)	Solid	11/13/17 10:15	11/14/17 13:25
50184326014	SB08 (0-2)	Solid	11/13/17 10:40	11/14/17 13:25
50184326015	SB08 (12-14)	Solid	11/13/17 11:15	11/14/17 13:25
50184326016	DUP-SL1	Solid	11/13/17 08:00	11/14/17 13:25
50184326017	DUP-SL2	Solid	11/13/17 08:00	11/14/17 13:25
50184326018	TB-1	Solid	11/13/17 08:00	11/14/17 13:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184326001	SB01 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184326002	SB01 (10-12)	EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184326003	SB02 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184326004	SB02 (16-18)	EPA 7196A	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
50184326005	SB03 (12-14)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
50184326006	SB04 (0-2)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
50184326007	SB04 (14-16)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
50184326008	SB05 (0-2)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184326009	SB05 (14-16)	EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
50184326010	SB06 (0-2)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 7196A	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
50184326011	SB06 (16-18)	EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
50184326013	SB07 (14-16)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
50184326014	SB08 (0-2)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184326015	SB08 (12-14)	EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
50184326016	DUP-SL1	EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184326017	DUP-SL2	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
50184326018	TB-1	EPA 8260	GRM	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 8260	GRM	72	PASI-I

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184326001	SB01 (0-2)					
EPA 6010	Arsenic	9.0	mg/kg	1.1	11/19/17 13:01	
EPA 6010	Barium	78.7	mg/kg	1.1	11/19/17 13:01	
EPA 6010	Cadmium	0.89	mg/kg	0.56	11/19/17 13:01	
EPA 6010	Chromium	16.6	mg/kg	1.1	11/19/17 13:01	
EPA 6010	Lead	67.3	mg/kg	1.1	11/19/17 13:01	
EPA 6010	Selenium	2.3	mg/kg	1.1	11/19/17 13:01	
EPA 8270 by SIM	Acenaphthylene	0.045	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Anthracene	0.090	mg/kg	0.031	11/15/17 18:08	R1
EPA 8270 by SIM	Benzo(a)anthracene	0.35	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Benzo(a)pyrene	0.34	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.26	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.20	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.33	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Chrysene	0.38	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.073	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Fluoranthene	0.76	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.18	mg/kg	0.031	11/15/17 18:08	
EPA 8270 by SIM	Phenanthrene	0.39	mg/kg	0.031	11/15/17 18:08	R1
EPA 8270 by SIM	Pyrene	0.56	mg/kg	0.031	11/15/17 18:08	
SM 2540G	Percent Moisture	20.6	%	0.10	11/14/17 15:39	
50184326002	SB01 (10-12)					
EPA 6010	Arsenic	5.7	mg/kg	1.1	11/19/17 13:07	
EPA 6010	Barium	82.8	mg/kg	1.1	11/19/17 13:07	
EPA 6010	Chromium	14.0	mg/kg	1.1	11/19/17 13:07	
EPA 6010	Lead	9.3	mg/kg	1.1	11/19/17 13:07	
EPA 6010	Selenium	2.2	mg/kg	1.1	11/19/17 13:07	
SM 2540G	Percent Moisture	21.3	%	0.10	11/14/17 15:39	
50184326003	SB02 (0-2)					
EPA 6010	Arsenic	7.5	mg/kg	1.1	11/19/17 13:09	
EPA 6010	Barium	101	mg/kg	1.1	11/19/17 13:09	
EPA 6010	Cadmium	3.4	mg/kg	0.57	11/19/17 13:09	
EPA 6010	Chromium	41.2	mg/kg	1.1	11/19/17 13:09	
EPA 6010	Lead	148	mg/kg	1.1	11/19/17 13:09	
EPA 6010	Selenium	2.0	mg/kg	1.1	11/19/17 13:09	
EPA 6010	Silver	0.92	mg/kg	0.57	11/19/17 13:09	
EPA 7471	Mercury	0.34	mg/kg	0.26	11/17/17 12:31	
EPA 8270 by SIM	Benzo(a)anthracene	0.22	mg/kg	0.063	11/15/17 21:09	R1
EPA 8270 by SIM	Benzo(a)pyrene	0.24	mg/kg	0.063	11/15/17 21:09	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.20	mg/kg	0.063	11/15/17 21:09	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.16	mg/kg	0.063	11/15/17 21:09	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.21	mg/kg	0.063	11/15/17 21:09	
EPA 8270 by SIM	Chrysene	0.25	mg/kg	0.063	11/15/17 21:09	R1
EPA 8270 by SIM	Fluoranthene	0.44	mg/kg	0.063	11/15/17 21:09	R1
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.14	mg/kg	0.063	11/15/17 21:09	
EPA 8270 by SIM	Phenanthrene	0.22	mg/kg	0.063	11/15/17 21:09	R1
EPA 8270 by SIM	Pyrene	0.34	mg/kg	0.063	11/15/17 21:09	R1

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184326003	SB02 (0-2)					
SM 2540G	Percent Moisture	20.7	%	0.10	11/14/17 15:40	
50184326004	SB02 (16-18)					
EPA 6010	Arsenic	9.1	mg/kg	1.2	11/19/17 13:29	
EPA 6010	Barium	77.5	mg/kg	1.2	11/19/17 13:29	
EPA 6010	Chromium	15.6	mg/kg	1.2	11/19/17 13:29	
EPA 6010	Lead	9.0	mg/kg	1.2	11/19/17 13:29	
EPA 6010	Selenium	3.3	mg/kg	1.2	11/19/17 13:29	
SM 2540G	Percent Moisture	23.4	%	0.10	11/14/17 15:40	
50184326005	SB03 (12-14)					
EPA 6010	Arsenic	8.2	mg/kg	1.3	11/19/17 13:31	
EPA 6010	Barium	80.5	mg/kg	1.3	11/19/17 13:31	
EPA 6010	Chromium	16.9	mg/kg	1.3	11/19/17 13:31	
EPA 6010	Lead	19.5	mg/kg	1.3	11/19/17 13:31	
EPA 6010	Selenium	2.7	mg/kg	1.3	11/19/17 13:31	
EPA 8270 by SIM	Acenaphthene	0.088	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Acenaphthylene	0.025	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Anthracene	0.15	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Benzo(a)anthracene	0.32	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Benzo(a)pyrene	0.16	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.14	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.071	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.18	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Chrysene	0.28	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.035	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Fluoranthene	0.94	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Fluorene	0.15	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.071	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	1-Methylnaphthalene	2.0	mg/kg	0.0064	11/15/17 19:30	N2
EPA 8270 by SIM	2-Methylnaphthalene	4.0	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Naphthalene	5.1	mg/kg	0.032	11/16/17 16:30	
EPA 8270 by SIM	Phenanthrene	0.74	mg/kg	0.0064	11/15/17 19:30	
EPA 8270 by SIM	Pyrene	0.73	mg/kg	0.0064	11/15/17 19:30	
EPA 8260	Benzene	0.63	mg/kg	0.53	11/15/17 22:38	
EPA 8260	n-Butylbenzene	14.5	mg/kg	0.53	11/15/17 22:38	
EPA 8260	sec-Butylbenzene	3.6	mg/kg	0.53	11/15/17 22:38	
EPA 8260	Ethylbenzene	55.0	mg/kg	10.5	11/16/17 18:40	
EPA 8260	n-Hexane	16.3	mg/kg	0.53	11/15/17 22:38	
EPA 8260	Isopropylbenzene (Cumene)	10.2	mg/kg	0.53	11/15/17 22:38	
EPA 8260	p-Isopropyltoluene	3.4	mg/kg	0.53	11/15/17 22:38	
EPA 8260	n-Propylbenzene	26.4	mg/kg	0.53	11/15/17 22:38	
EPA 8260	1,2,4-Trimethylbenzene	380	mg/kg	10.5	11/16/17 18:40	
EPA 8260	1,3,5-Trimethylbenzene	147	mg/kg	10.5	11/16/17 18:40	
EPA 8260	Xylene (Total)	86.2	mg/kg	21.1	11/16/17 18:40	
SM 2540G	Percent Moisture	23.0	%	0.10	11/14/17 15:40	
50184326006	SB04 (0-2)					
EPA 6010	Arsenic	9.9	mg/kg	1.1	11/19/17 13:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184326006	SB04 (0-2)					
EPA 6010	Barium	104	mg/kg	1.1	11/19/17 13:33	
EPA 6010	Chromium	12.0	mg/kg	1.1	11/19/17 13:33	
EPA 6010	Lead	25.1	mg/kg	1.1	11/19/17 13:33	
EPA 6010	Selenium	2.1	mg/kg	1.1	11/19/17 13:33	
EPA 7471	Mercury	0.60	mg/kg	0.23	11/17/17 12:48	
EPA 8270 by SIM	Acenaphthene	3.0	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Acenaphthylene	0.056	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Anthracene	5.9	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Benzo(a)anthracene	14.6	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Benzo(a)pyrene	10.4	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Benzo(b)fluoranthene	11.3	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Benzo(g,h,i)perylene	3.8	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Benzo(k)fluoranthene	8.1	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Chrysene	12.7	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Dibenz(a,h)anthracene	1.9	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Fluoranthene	33.1	mg/kg	0.15	11/16/17 16:46	
EPA 8270 by SIM	Fluorene	2.4	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	4.0	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	1-Methylnaphthalene	0.30	mg/kg	0.029	11/15/17 19:47	N2
EPA 8270 by SIM	2-Methylnaphthalene	0.48	mg/kg	0.029	11/15/17 19:47	
EPA 8270 by SIM	Naphthalene	1.5	mg/kg	0.029	11/15/17 19:47	ED
EPA 8270 by SIM	Phenanthrene	20.3	mg/kg	0.15	11/16/17 16:46	
EPA 8270 by SIM	Pyrene	22.0	mg/kg	0.15	11/16/17 16:46	
EPA 8260	Tetrachloroethene	0.0057	mg/kg	0.0049	11/15/17 23:11	
SM 2540G	Percent Moisture	15.5	%	0.10	11/14/17 15:40	
50184326007	SB04 (14-16)					
EPA 6010	Arsenic	6.6	mg/kg	1.1	11/19/17 13:35	
EPA 6010	Barium	68.7	mg/kg	1.1	11/19/17 13:35	
EPA 6010	Chromium	14.1	mg/kg	1.1	11/19/17 13:35	
EPA 6010	Lead	7.9	mg/kg	1.1	11/19/17 13:35	
EPA 6010	Selenium	2.1	mg/kg	1.1	11/19/17 13:35	
SM 2540G	Percent Moisture	18.5	%	0.10	11/14/17 15:40	
50184326008	SB05 (0-2)					
EPA 6010	Arsenic	8.4	mg/kg	1.0	11/19/17 13:37	
EPA 6010	Barium	49.6	mg/kg	1.0	11/19/17 13:37	
EPA 6010	Cadmium	0.52	mg/kg	0.51	11/19/17 13:37	
EPA 6010	Chromium	13.9	mg/kg	1.0	11/19/17 13:37	
EPA 6010	Lead	140	mg/kg	1.0	11/19/17 13:37	
EPA 6010	Selenium	1.9	mg/kg	1.0	11/19/17 13:37	
EPA 7471	Mercury	0.66	mg/kg	0.22	11/17/17 12:53	
EPA 8270 by SIM	Anthracene	0.039	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Benzo(a)anthracene	0.088	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Benzo(a)pyrene	0.076	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.061	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.052	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.070	mg/kg	0.027	11/15/17 20:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184326008	SB05 (0-2)					
EPA 8270 by SIM	Chrysene	0.096	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Fluoranthene	0.19	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.040	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Naphthalene	0.027	mg/kg	0.027	11/15/17 20:20	ED
EPA 8270 by SIM	Phenanthrene	0.16	mg/kg	0.027	11/15/17 20:20	
EPA 8270 by SIM	Pyrene	0.16	mg/kg	0.027	11/15/17 20:20	
SM 2540G	Percent Moisture	5.7	%	0.10	11/14/17 15:40	
50184326009	SB05 (14-16)					
EPA 6010	Arsenic	2.9	mg/kg	1.1	11/19/17 13:39	
EPA 6010	Barium	40.0	mg/kg	1.1	11/19/17 13:39	
EPA 6010	Chromium	10.2	mg/kg	1.1	11/19/17 13:39	
EPA 6010	Lead	7.6	mg/kg	1.1	11/19/17 13:39	
EPA 6010	Selenium	1.3	mg/kg	1.1	11/19/17 13:39	
SM 2540G	Percent Moisture	17.5	%	0.10	11/14/17 15:41	
50184326010	SB06 (0-2)					
EPA 6010	Arsenic	22.7	mg/kg	1.1	11/19/17 13:41	
EPA 6010	Barium	56.8	mg/kg	1.1	11/19/17 13:41	
EPA 6010	Chromium	19.5	mg/kg	1.1	11/19/17 13:41	
EPA 6010	Lead	92.4	mg/kg	1.1	11/19/17 13:41	
EPA 6010	Selenium	17.3	mg/kg	1.1	11/19/17 13:41	
EPA 8270 by SIM	Benzo(a)anthracene	0.064	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Benzo(a)pyrene	0.065	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.055	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.057	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.062	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Chrysene	0.077	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Fluoranthene	0.13	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.040	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Phenanthrene	0.077	mg/kg	0.027	11/15/17 22:15	
EPA 8270 by SIM	Pyrene	0.10	mg/kg	0.027	11/15/17 22:15	
SM 2540G	Percent Moisture	6.8	%	0.10	11/14/17 15:41	
50184326011	SB06 (16-18)					
EPA 6010	Arsenic	3.5	mg/kg	1.2	11/19/17 13:44	
EPA 6010	Barium	53.0	mg/kg	1.2	11/19/17 13:44	
EPA 6010	Chromium	11.9	mg/kg	1.2	11/19/17 13:44	
EPA 6010	Lead	7.3	mg/kg	1.2	11/19/17 13:44	
EPA 6010	Selenium	1.5	mg/kg	1.2	11/19/17 13:44	
EPA 8270 by SIM	Benzo(a)anthracene	0.033	mg/kg	0.0061	11/15/17 22:32	
EPA 8270 by SIM	Chrysene	0.031	mg/kg	0.0061	11/15/17 22:32	
EPA 8270 by SIM	Fluorene	0.0064	mg/kg	0.0061	11/15/17 22:32	
EPA 8270 by SIM	1-Methylnaphthalene	0.074	mg/kg	0.0061	11/15/17 22:32	N2
EPA 8270 by SIM	Phenanthrene	0.011	mg/kg	0.0061	11/15/17 22:32	
EPA 8270 by SIM	Pyrene	0.012	mg/kg	0.0061	11/15/17 22:32	
SM 2540G	Percent Moisture	18.4	%	0.10	11/14/17 15:41	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184326013	SB07 (14-16)					
EPA 6010	Arsenic	8.3	mg/kg	1.1	11/19/17 13:50	
EPA 6010	Barium	72.3	mg/kg	1.1	11/19/17 13:50	
EPA 6010	Chromium	14.9	mg/kg	1.1	11/19/17 13:50	
EPA 6010	Lead	9.7	mg/kg	1.1	11/19/17 13:50	
EPA 6010	Selenium	2.4	mg/kg	1.1	11/19/17 13:50	
SM 2540G	Percent Moisture	19.7	%	0.10	11/14/17 15:41	
50184326014	SB08 (0-2)					
EPA 6010	Arsenic	12.0	mg/kg	1.0	11/19/17 13:52	
EPA 6010	Barium	70.1	mg/kg	1.0	11/19/17 13:52	
EPA 6010	Cadmium	0.74	mg/kg	0.52	11/19/17 13:52	
EPA 6010	Chromium	15.4	mg/kg	1.0	11/19/17 13:52	
EPA 6010	Lead	75.2	mg/kg	1.0	11/19/17 13:52	
EPA 6010	Selenium	4.9	mg/kg	1.0	11/19/17 13:52	
EPA 7471	Mercury	1.7	mg/kg	0.22	11/17/17 13:03	
EPA 8270 by SIM	Acenaphthylene	0.028	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Anthracene	0.028	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Benzo(a)anthracene	0.12	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Benzo(a)pyrene	0.16	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.11	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.10	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.13	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Chrysene	0.11	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.047	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Fluoranthene	0.19	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.088	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	2-Methylnaphthalene	0.0072	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Naphthalene	0.012	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Phenanthrene	0.11	mg/kg	0.0057	11/15/17 23:05	
EPA 8270 by SIM	Pyrene	0.18	mg/kg	0.0057	11/15/17 23:05	
SM 2540G	Percent Moisture	13.4	%	0.10	11/14/17 15:41	
50184326015	SB08 (12-14)					
EPA 6010	Arsenic	10.6	mg/kg	1.0	11/19/17 13:54	
EPA 6010	Barium	69.9	mg/kg	1.0	11/19/17 13:54	
EPA 6010	Chromium	14.6	mg/kg	1.0	11/19/17 13:54	
EPA 6010	Lead	9.4	mg/kg	1.0	11/19/17 13:54	
EPA 6010	Selenium	2.4	mg/kg	1.0	11/19/17 13:54	
SM 2540G	Percent Moisture	18.2	%	0.10	11/14/17 15:41	
50184326016	DUP-SL1					
EPA 6010	Arsenic	5.6	mg/kg	1.1	11/19/17 13:56	
EPA 6010	Barium	82.7	mg/kg	1.1	11/19/17 13:56	
EPA 6010	Chromium	13.3	mg/kg	1.1	11/19/17 13:56	
EPA 6010	Lead	12.6	mg/kg	1.1	11/19/17 13:56	
EPA 6010	Selenium	2.2	mg/kg	1.1	11/19/17 13:56	
EPA 8270 by SIM	Chrysene	0.011	mg/kg	0.0062	11/15/17 23:38	
EPA 8270 by SIM	Fluoranthene	0.0065	mg/kg	0.0062	11/15/17 23:38	
EPA 8270 by SIM	Pyrene	0.0081	mg/kg	0.0062	11/15/17 23:38	

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184326016	DUP-SL1					
SM 2540G	Percent Moisture	19.8	%	0.10	11/14/17 15:41	
50184326017	DUP-SL2					
EPA 6010	Arsenic	9.4	mg/kg	1.2	11/19/17 13:59	
EPA 6010	Barium	87.0	mg/kg	1.2	11/19/17 13:59	
EPA 6010	Chromium	17.5	mg/kg	1.2	11/19/17 13:59	
EPA 6010	Lead	23.2	mg/kg	1.2	11/19/17 13:59	
EPA 6010	Selenium	2.7	mg/kg	1.2	11/19/17 13:59	
EPA 8270 by SIM	Acenaphthene	0.18	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Acenaphthylene	0.051	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Anthracene	0.32	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Benzo(a)anthracene	0.66	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Benzo(a)pyrene	0.33	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.29	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.15	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.39	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Chrysene	0.58	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.074	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Fluoranthene	2.0	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Fluorene	0.31	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.15	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	1-Methylnaphthalene	3.9	mg/kg	0.033	11/16/17 17:03	N2
EPA 8270 by SIM	2-Methylnaphthalene	8.0	mg/kg	0.033	11/16/17 17:03	
EPA 8270 by SIM	Naphthalene	11.1	mg/kg	0.033	11/16/17 17:03	
EPA 8270 by SIM	Phenanthrene	1.6	mg/kg	0.0067	11/15/17 23:54	
EPA 8270 by SIM	Pyrene	1.5	mg/kg	0.0067	11/15/17 23:54	
EPA 8260	Benzene	0.34J	mg/kg	0.59	11/16/17 10:22	D4,J
EPA 8260	n-Butylbenzene	10.5	mg/kg	0.59	11/16/17 10:22	
EPA 8260	sec-Butylbenzene	2.6	mg/kg	0.59	11/16/17 10:22	
EPA 8260	Ethylbenzene	17.5	mg/kg	0.59	11/16/17 10:22	
EPA 8260	n-Hexane	10.1	mg/kg	0.59	11/16/17 10:22	
EPA 8260	Isopropylbenzene (Cumene)	5.6	mg/kg	0.59	11/16/17 10:22	
EPA 8260	p-Isopropyltoluene	2.1	mg/kg	0.59	11/16/17 10:22	
EPA 8260	n-Propylbenzene	17.9	mg/kg	0.59	11/16/17 10:22	
EPA 8260	1,2,4-Trimethylbenzene	107	mg/kg	5.9	11/16/17 19:14	
EPA 8260	1,3,5-Trimethylbenzene	51.3	mg/kg	5.9	11/16/17 19:14	
EPA 8260	Xylene (Total)	21.1	mg/kg	1.2	11/16/17 10:22	
SM 2540G	Percent Moisture	26.3	%	0.10	11/14/17 15:42	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB01 (0-2) Lab ID: 50184326001 Collected: 11/13/17 10:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.0	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:01	7440-38-2	
Barium	78.7	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:01	7440-39-3	
Cadmium	0.89	mg/kg	0.56	1	11/16/17 06:13	11/19/17 13:01	7440-43-9	
Chromium	16.6	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:01	7440-47-3	
Lead	67.3	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:01	7439-92-1	
Selenium	2.3	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:01	7782-49-2	
Silver	ND	mg/kg	0.56	1	11/16/17 06:13	11/19/17 13:01	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/16/17 11:33	11/17/17 12:23	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	83-32-9	R1
Acenaphthylene	0.045	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	208-96-8	
Anthracene	0.090	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	120-12-7	R1
Benzo(a)anthracene	0.35	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	56-55-3	
Benzo(a)pyrene	0.34	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	50-32-8	
Benzo(b)fluoranthene	0.26	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	205-99-2	
Benzo(g,h,i)perylene	0.20	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	191-24-2	
Benzo(k)fluoranthene	0.33	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	207-08-9	
Chrysene	0.38	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	218-01-9	
Dibenz(a,h)anthracene	0.073	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	53-70-3	
Fluoranthene	0.76	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	206-44-0	
Fluorene	ND	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	86-73-7	
Indeno(1,2,3-cd)pyrene	0.18	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	91-57-6	
Naphthalene	ND	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	91-20-3	ED
Phenanthrene	0.39	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	85-01-8	R1
Pyrene	0.56	mg/kg	0.031	5	11/14/17 22:55	11/15/17 18:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	47	%	30-94	5	11/14/17 22:55	11/15/17 18:08	321-60-8	
p-Terphenyl-d14 (S)	43	%	27-102	5	11/14/17 22:55	11/15/17 18:08	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.13	1		11/15/17 19:51	67-64-1	
Acrolein	ND	mg/kg	0.13	1		11/15/17 19:51	107-02-8	
Acrylonitrile	ND	mg/kg	0.13	1		11/15/17 19:51	107-13-1	
Benzene	ND	mg/kg	0.0063	1		11/15/17 19:51	71-43-2	
Bromobenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	108-86-1	
Bromochloromethane	ND	mg/kg	0.0063	1		11/15/17 19:51	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0063	1		11/15/17 19:51	75-27-4	
Bromoform	ND	mg/kg	0.0063	1		11/15/17 19:51	75-25-2	
Bromomethane	ND	mg/kg	0.0063	1		11/15/17 19:51	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.032	1		11/15/17 19:51	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB01 (0-2) Lab ID: 50184326001 Collected: 11/13/17 10:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	98-06-6	
Carbon disulfide	ND	mg/kg	0.013	1		11/15/17 19:51	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0063	1		11/15/17 19:51	56-23-5	
Chlorobenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	108-90-7	
Chloroethane	ND	mg/kg	0.0063	1		11/15/17 19:51	75-00-3	
Chloroform	ND	mg/kg	0.0063	1		11/15/17 19:51	67-66-3	
Chloromethane	ND	mg/kg	0.0063	1		11/15/17 19:51	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0063	1		11/15/17 19:51	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0063	1		11/15/17 19:51	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0063	1		11/15/17 19:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0063	1		11/15/17 19:51	106-93-4	
Dibromomethane	ND	mg/kg	0.0063	1		11/15/17 19:51	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		11/15/17 19:51	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0063	1		11/15/17 19:51	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0063	1		11/15/17 19:51	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0063	1		11/15/17 19:51	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0063	1		11/15/17 19:51	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0063	1		11/15/17 19:51	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0063	1		11/15/17 19:51	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0063	1		11/15/17 19:51	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0063	1		11/15/17 19:51	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0063	1		11/15/17 19:51	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0063	1		11/15/17 19:51	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0063	1		11/15/17 19:51	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0063	1		11/15/17 19:51	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.13	1		11/15/17 19:51	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0063	1		11/15/17 19:51	87-68-3	
n-Hexane	ND	mg/kg	0.0063	1		11/15/17 19:51	110-54-3	
2-Hexanone	ND	mg/kg	0.13	1		11/15/17 19:51	591-78-6	
Iodomethane	ND	mg/kg	0.13	1		11/15/17 19:51	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0063	1		11/15/17 19:51	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0063	1		11/15/17 19:51	99-87-6	
Methylene Chloride	ND	mg/kg	0.025	1		11/15/17 19:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.032	1		11/15/17 19:51	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0063	1		11/15/17 19:51	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	103-65-1	
Styrene	ND	mg/kg	0.0063	1		11/15/17 19:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0063	1		11/15/17 19:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0063	1		11/15/17 19:51	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0063	1		11/15/17 19:51	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB01 (0-2) Lab ID: 50184326001 Collected: 11/13/17 10:15 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0063	1		11/15/17 19:51	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0063	1		11/15/17 19:51	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0063	1		11/15/17 19:51	79-00-5	
Trichloroethene	ND	mg/kg	0.0063	1		11/15/17 19:51	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0063	1		11/15/17 19:51	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0063	1		11/15/17 19:51	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0063	1		11/15/17 19:51	108-67-8	
Vinyl acetate	ND	mg/kg	0.13	1		11/15/17 19:51	108-05-4	
Vinyl chloride	ND	mg/kg	0.0063	1		11/15/17 19:51	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	1		11/15/17 19:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%	69-136	1		11/15/17 19:51	1868-53-7	
Toluene-d8 (S)	101	%	64-150	1		11/15/17 19:51	2037-26-5	
4-Bromofluorobenzene (S)	104	%	51-142	1		11/15/17 19:51	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	20.6	%	0.10	1		11/14/17 15:39		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB01 (10-12) Lab ID: 50184326002 Collected: 11/13/17 10:40 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.7	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:07	7440-38-2	
Barium	82.8	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:07	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	11/16/17 06:13	11/19/17 13:07	7440-43-9	
Chromium	14.0	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:07	7440-47-3	
Lead	9.3	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:07	7439-92-1	
Selenium	2.2	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:07	7782-49-2	
Silver	ND	mg/kg	0.56	1	11/16/17 06:13	11/19/17 13:07	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.25	1	11/16/17 11:33	11/17/17 12:29	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	83-32-9	
Acenaphthylene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	208-96-8	
Anthracene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	207-08-9	
Chrysene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	53-70-3	
Fluoranthene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	206-44-0	
Fluorene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	91-57-6	
Naphthalene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	91-20-3	
Phenanthrene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	85-01-8	
Pyrene	ND	mg/kg	0.0063	1	11/14/17 22:55	11/15/17 18:57	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	50	%.	30-94	1	11/14/17 22:55	11/15/17 18:57	321-60-8	
p-Terphenyl-d14 (S)	53	%.	27-102	1	11/14/17 22:55	11/15/17 18:57	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.10	1		11/16/17 18:06	67-64-1	
Acrolein	ND	mg/kg	0.10	1		11/16/17 18:06	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		11/16/17 18:06	107-13-1	
Benzene	ND	mg/kg	0.0050	1		11/16/17 18:06	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		11/16/17 18:06	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		11/16/17 18:06	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		11/16/17 18:06	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		11/16/17 18:06	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/16/17 18:06	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB01 (10-12) Lab ID: 50184326002 Collected: 11/13/17 10:40 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		11/16/17 18:06	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		11/16/17 18:06	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		11/16/17 18:06	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		11/16/17 18:06	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		11/16/17 18:06	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		11/16/17 18:06	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		11/16/17 18:06	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		11/16/17 18:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		11/16/17 18:06	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		11/16/17 18:06	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/16/17 18:06	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		11/16/17 18:06	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		11/16/17 18:06	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		11/16/17 18:06	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		11/16/17 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/16/17 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/16/17 18:06	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		11/16/17 18:06	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		11/16/17 18:06	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		11/16/17 18:06	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		11/16/17 18:06	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/16/17 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/16/17 18:06	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		11/16/17 18:06	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		11/16/17 18:06	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		11/16/17 18:06	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		11/16/17 18:06	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		11/16/17 18:06	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		11/16/17 18:06	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		11/16/17 18:06	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/16/17 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/16/17 18:06	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		11/16/17 18:06	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	103-65-1	
Styrene	ND	mg/kg	0.0050	1		11/16/17 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/16/17 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/16/17 18:06	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		11/16/17 18:06	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB01 (10-12) Lab ID: 50184326002 Collected: 11/13/17 10:40 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0050	1		11/16/17 18:06	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		11/16/17 18:06	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		11/16/17 18:06	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		11/16/17 18:06	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		11/16/17 18:06	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		11/16/17 18:06	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		11/16/17 18:06	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		11/16/17 18:06	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		11/16/17 18:06	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		11/16/17 18:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	69-136	1		11/16/17 18:06	1868-53-7	
Toluene-d8 (S)	100	%	64-150	1		11/16/17 18:06	2037-26-5	
4-Bromofluorobenzene (S)	103	%	51-142	1		11/16/17 18:06	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	21.3	%	0.10	1		11/14/17 15:39		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB02 (0-2) Lab ID: 50184326003 Collected: 11/13/17 11:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.5	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:09	7440-38-2	
Barium	101	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:09	7440-39-3	
Cadmium	3.4	mg/kg	0.57	1	11/16/17 06:13	11/19/17 13:09	7440-43-9	
Chromium	41.2	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:09	7440-47-3	
Lead	148	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:09	7439-92-1	
Selenium	2.0	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:09	7782-49-2	
Silver	0.92	mg/kg	0.57	1	11/16/17 06:13	11/19/17 13:09	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.34	mg/kg	0.26	1	11/16/17 11:33	11/17/17 12:31	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	83-32-9	
Acenaphthylene	ND	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	208-96-8	
Anthracene	ND	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	120-12-7	R1
Benzo(a)anthracene	0.22	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	56-55-3	R1
Benzo(a)pyrene	0.24	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	50-32-8	
Benzo(b)fluoranthene	0.20	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	205-99-2	
Benzo(g,h,i)perylene	0.16	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	191-24-2	
Benzo(k)fluoranthene	0.21	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	207-08-9	
Chrysene	0.25	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	218-01-9	R1
Dibenz(a,h)anthracene	ND	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	53-70-3	
Fluoranthene	0.44	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	206-44-0	R1
Fluorene	ND	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	86-73-7	
Indeno(1,2,3-cd)pyrene	0.14	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	91-57-6	
Naphthalene	ND	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	91-20-3	ED
Phenanthrene	0.22	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	85-01-8	R1
Pyrene	0.34	mg/kg	0.063	10	11/14/17 22:55	11/15/17 21:09	129-00-0	R1
Surrogates								
2-Fluorobiphenyl (S)	40	%.	30-94	10	11/14/17 22:55	11/15/17 21:09	321-60-8	
p-Terphenyl-d14 (S)	38	%.	27-102	10	11/14/17 22:55	11/15/17 21:09	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.10	1		11/16/17 04:46	67-64-1	
Acrolein	ND	mg/kg	0.10	1		11/16/17 04:46	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		11/16/17 04:46	107-13-1	
Benzene	ND	mg/kg	0.0052	1		11/16/17 04:46	71-43-2	
Bromobenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	108-86-1	
Bromochloromethane	ND	mg/kg	0.0052	1		11/16/17 04:46	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0052	1		11/16/17 04:46	75-27-4	
Bromoform	ND	mg/kg	0.0052	1		11/16/17 04:46	75-25-2	
Bromomethane	ND	mg/kg	0.0052	1		11/16/17 04:46	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		11/16/17 04:46	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB02 (0-2) Lab ID: 50184326003 Collected: 11/13/17 11:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		11/16/17 04:46	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0052	1		11/16/17 04:46	56-23-5	
Chlorobenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	108-90-7	
Chloroethane	ND	mg/kg	0.0052	1		11/16/17 04:46	75-00-3	
Chloroform	ND	mg/kg	0.0052	1		11/16/17 04:46	67-66-3	
Chloromethane	ND	mg/kg	0.0052	1		11/16/17 04:46	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0052	1		11/16/17 04:46	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0052	1		11/16/17 04:46	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0052	1		11/16/17 04:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0052	1		11/16/17 04:46	106-93-4	
Dibromomethane	ND	mg/kg	0.0052	1		11/16/17 04:46	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/16/17 04:46	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0052	1		11/16/17 04:46	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0052	1		11/16/17 04:46	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0052	1		11/16/17 04:46	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0052	1		11/16/17 04:46	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0052	1		11/16/17 04:46	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0052	1		11/16/17 04:46	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0052	1		11/16/17 04:46	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0052	1		11/16/17 04:46	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0052	1		11/16/17 04:46	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0052	1		11/16/17 04:46	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0052	1		11/16/17 04:46	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0052	1		11/16/17 04:46	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		11/16/17 04:46	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0052	1		11/16/17 04:46	87-68-3	
n-Hexane	ND	mg/kg	0.0052	1		11/16/17 04:46	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		11/16/17 04:46	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		11/16/17 04:46	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0052	1		11/16/17 04:46	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0052	1		11/16/17 04:46	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		11/16/17 04:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		11/16/17 04:46	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0052	1		11/16/17 04:46	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	103-65-1	
Styrene	ND	mg/kg	0.0052	1		11/16/17 04:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0052	1		11/16/17 04:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0052	1		11/16/17 04:46	79-34-5	R1
Tetrachloroethene	ND	mg/kg	0.0052	1		11/16/17 04:46	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB02 (0-2) Lab ID: 50184326003 Collected: 11/13/17 11:15 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0052	1		11/16/17 04:46	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0052	1		11/16/17 04:46	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0052	1		11/16/17 04:46	79-00-5	
Trichloroethene	ND	mg/kg	0.0052	1		11/16/17 04:46	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0052	1		11/16/17 04:46	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0052	1		11/16/17 04:46	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0052	1		11/16/17 04:46	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		11/16/17 04:46	108-05-4	
Vinyl chloride	ND	mg/kg	0.0052	1		11/16/17 04:46	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		11/16/17 04:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	113	%	69-136	1		11/16/17 04:46	1868-53-7	
Toluene-d8 (S)	105	%	64-150	1		11/16/17 04:46	2037-26-5	
4-Bromofluorobenzene (S)	97	%	51-142	1		11/16/17 04:46	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	20.7	%	0.10	1		11/14/17 15:40		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 3060A						
Chromium, Hexavalent	ND	mg/kg	48.9	20	12/14/17 11:42	12/14/17 17:24	18540-29-9	D3,H3

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB02 (16-18) Lab ID: 50184326004 Collected: 11/13/17 11:45 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.1	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:29	7440-38-2	
Barium	77.5	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:29	7440-39-3	
Cadmium	ND	mg/kg	0.59	1	11/16/17 06:13	11/19/17 13:29	7440-43-9	
Chromium	15.6	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:29	7440-47-3	
Lead	9.0	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:29	7439-92-1	
Selenium	3.3	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:29	7782-49-2	
Silver	ND	mg/kg	0.59	1	11/16/17 06:13	11/19/17 13:29	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.25	1	11/16/17 11:33	11/17/17 12:38	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	83-32-9	
Acenaphthylene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	208-96-8	
Anthracene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	207-08-9	
Chrysene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	53-70-3	
Fluoranthene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	206-44-0	
Fluorene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	91-57-6	
Naphthalene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	91-20-3	
Phenanthrene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	85-01-8	
Pyrene	ND	mg/kg	0.0065	1	11/14/17 22:55	11/15/17 19:14	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	53	%.	30-94	1	11/14/17 22:55	11/15/17 19:14	321-60-8	
p-Terphenyl-d14 (S)	57	%.	27-102	1	11/14/17 22:55	11/15/17 19:14	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.11	1		11/15/17 22:04	67-64-1	
Acrolein	ND	mg/kg	0.11	1		11/15/17 22:04	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		11/15/17 22:04	107-13-1	
Benzene	ND	mg/kg	0.0053	1		11/15/17 22:04	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		11/15/17 22:04	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		11/15/17 22:04	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		11/15/17 22:04	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		11/15/17 22:04	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		11/15/17 22:04	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB02 (16-18) Lab ID: 50184326004 Collected: 11/13/17 11:45 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		11/15/17 22:04	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		11/15/17 22:04	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		11/15/17 22:04	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		11/15/17 22:04	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		11/15/17 22:04	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		11/15/17 22:04	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		11/15/17 22:04	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		11/15/17 22:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0053	1		11/15/17 22:04	106-93-4	
Dibromomethane	ND	mg/kg	0.0053	1		11/15/17 22:04	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		11/15/17 22:04	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		11/15/17 22:04	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		11/15/17 22:04	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		11/15/17 22:04	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		11/15/17 22:04	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		11/15/17 22:04	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		11/15/17 22:04	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		11/15/17 22:04	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		11/15/17 22:04	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		11/15/17 22:04	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		11/15/17 22:04	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		11/15/17 22:04	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		11/15/17 22:04	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		11/15/17 22:04	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0053	1		11/15/17 22:04	87-68-3	
n-Hexane	ND	mg/kg	0.0053	1		11/15/17 22:04	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1		11/15/17 22:04	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		11/15/17 22:04	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		11/15/17 22:04	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		11/15/17 22:04	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		11/15/17 22:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		11/15/17 22:04	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		11/15/17 22:04	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	103-65-1	
Styrene	ND	mg/kg	0.0053	1		11/15/17 22:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		11/15/17 22:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		11/15/17 22:04	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0053	1		11/15/17 22:04	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB02 (16-18) Lab ID: 50184326004 Collected: 11/13/17 11:45 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0053	1		11/15/17 22:04	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		11/15/17 22:04	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		11/15/17 22:04	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		11/15/17 22:04	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		11/15/17 22:04	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0053	1		11/15/17 22:04	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		11/15/17 22:04	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		11/15/17 22:04	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		11/15/17 22:04	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		11/15/17 22:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	69-136	1		11/15/17 22:04	1868-53-7	
Toluene-d8 (S)	97	%	64-150	1		11/15/17 22:04	2037-26-5	
4-Bromofluorobenzene (S)	108	%	51-142	1		11/15/17 22:04	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	23.4	%	0.10	1		11/14/17 15:40		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB03 (12-14) Lab ID: 50184326005 Collected: 11/13/17 12:40 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.2	mg/kg	1.3	1	11/16/17 06:13	11/19/17 13:31	7440-38-2	
Barium	80.5	mg/kg	1.3	1	11/16/17 06:13	11/19/17 13:31	7440-39-3	
Cadmium	ND	mg/kg	0.65	1	11/16/17 06:13	11/19/17 13:31	7440-43-9	
Chromium	16.9	mg/kg	1.3	1	11/16/17 06:13	11/19/17 13:31	7440-47-3	
Lead	19.5	mg/kg	1.3	1	11/16/17 06:13	11/19/17 13:31	7439-92-1	
Selenium	2.7	mg/kg	1.3	1	11/16/17 06:13	11/19/17 13:31	7782-49-2	
Silver	ND	mg/kg	0.65	1	11/16/17 06:13	11/19/17 13:31	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.27	1	11/16/17 11:33	11/17/17 12:46	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	0.088	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	83-32-9	
Acenaphthylene	0.025	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	208-96-8	
Anthracene	0.15	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	120-12-7	
Benzo(a)anthracene	0.32	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	56-55-3	
Benzo(a)pyrene	0.16	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	50-32-8	
Benzo(b)fluoranthene	0.14	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	205-99-2	
Benzo(g,h,i)perylene	0.071	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	191-24-2	
Benzo(k)fluoranthene	0.18	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	207-08-9	
Chrysene	0.28	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	218-01-9	
Dibenz(a,h)anthracene	0.035	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	53-70-3	
Fluoranthene	0.94	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	206-44-0	
Fluorene	0.15	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	86-73-7	
Indeno(1,2,3-cd)pyrene	0.071	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	193-39-5	
1-Methylnaphthalene	2.0	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	90-12-0	N2
2-Methylnaphthalene	4.0	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	91-57-6	
Naphthalene	5.1	mg/kg	0.032	5	11/14/17 22:55	11/16/17 16:30	91-20-3	
Phenanthrene	0.74	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	85-01-8	
Pyrene	0.73	mg/kg	0.0064	1	11/14/17 22:55	11/15/17 19:30	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	53	%	30-94	1	11/14/17 22:55	11/15/17 19:30	321-60-8	
p-Terphenyl-d14 (S)	58	%	27-102	1	11/14/17 22:55	11/15/17 19:30	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	10.5	100		11/15/17 22:38	67-64-1	
Acrolein	ND	mg/kg	10.5	100		11/15/17 22:38	107-02-8	
Acrylonitrile	ND	mg/kg	10.5	100		11/15/17 22:38	107-13-1	
Benzene	0.63	mg/kg	0.53	100		11/15/17 22:38	71-43-2	
Bromobenzene	ND	mg/kg	0.53	100		11/15/17 22:38	108-86-1	
Bromochloromethane	ND	mg/kg	0.53	100		11/15/17 22:38	74-97-5	
Bromodichloromethane	ND	mg/kg	0.53	100		11/15/17 22:38	75-27-4	
Bromoform	ND	mg/kg	0.53	100		11/15/17 22:38	75-25-2	
Bromomethane	ND	mg/kg	0.53	100		11/15/17 22:38	74-83-9	
2-Butanone (MEK)	ND	mg/kg	2.6	100		11/15/17 22:38	78-93-3	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB03 (12-14) Lab ID: 50184326005 Collected: 11/13/17 12:40 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	14.5	mg/kg	0.53	100		11/15/17 22:38	104-51-8	
sec-Butylbenzene	3.6	mg/kg	0.53	100		11/15/17 22:38	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.53	100		11/15/17 22:38	98-06-6	
Carbon disulfide	ND	mg/kg	1.1	100		11/15/17 22:38	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.53	100		11/15/17 22:38	56-23-5	
Chlorobenzene	ND	mg/kg	0.53	100		11/15/17 22:38	108-90-7	
Chloroethane	ND	mg/kg	0.53	100		11/15/17 22:38	75-00-3	
Chloroform	ND	mg/kg	0.53	100		11/15/17 22:38	67-66-3	
Chloromethane	ND	mg/kg	0.53	100		11/15/17 22:38	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.53	100		11/15/17 22:38	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.53	100		11/15/17 22:38	106-43-4	
Dibromochloromethane	ND	mg/kg	0.53	100		11/15/17 22:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.53	100		11/15/17 22:38	106-93-4	
Dibromomethane	ND	mg/kg	0.53	100		11/15/17 22:38	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.53	100		11/15/17 22:38	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.53	100		11/15/17 22:38	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.53	100		11/15/17 22:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	10.5	100		11/15/17 22:38	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.53	100		11/15/17 22:38	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.53	100		11/15/17 22:38	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.53	100		11/15/17 22:38	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.53	100		11/15/17 22:38	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.53	100		11/15/17 22:38	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.53	100		11/15/17 22:38	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.53	100		11/15/17 22:38	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.53	100		11/15/17 22:38	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.53	100		11/15/17 22:38	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.53	100		11/15/17 22:38	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.53	100		11/15/17 22:38	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.53	100		11/15/17 22:38	10061-02-6	
Ethylbenzene	55.0	mg/kg	10.5	2000		11/16/17 18:40	100-41-4	
Ethyl methacrylate	ND	mg/kg	10.5	100		11/15/17 22:38	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.53	100		11/15/17 22:38	87-68-3	
n-Hexane	16.3	mg/kg	0.53	100		11/15/17 22:38	110-54-3	
2-Hexanone	ND	mg/kg	10.5	100		11/15/17 22:38	591-78-6	
Iodomethane	ND	mg/kg	10.5	100		11/15/17 22:38	74-88-4	
Isopropylbenzene (Cumene)	10.2	mg/kg	0.53	100		11/15/17 22:38	98-82-8	
p-Isopropyltoluene	3.4	mg/kg	0.53	100		11/15/17 22:38	99-87-6	
Methylene Chloride	ND	mg/kg	2.1	100		11/15/17 22:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.6	100		11/15/17 22:38	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.53	100		11/15/17 22:38	1634-04-4	2d
n-Propylbenzene	26.4	mg/kg	0.53	100		11/15/17 22:38	103-65-1	
Styrene	ND	mg/kg	0.53	100		11/15/17 22:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.53	100		11/15/17 22:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.53	100		11/15/17 22:38	79-34-5	
Tetrachloroethene	ND	mg/kg	0.53	100		11/15/17 22:38	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB03 (12-14) Lab ID: 50184326005 Collected: 11/13/17 12:40 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.53	100		11/15/17 22:38	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.53	100		11/15/17 22:38	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.53	100		11/15/17 22:38	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.53	100		11/15/17 22:38	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.53	100		11/15/17 22:38	79-00-5	
Trichloroethene	ND	mg/kg	0.53	100		11/15/17 22:38	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.53	100		11/15/17 22:38	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.53	100		11/15/17 22:38	96-18-4	
1,2,4-Trimethylbenzene	380	mg/kg	10.5	2000		11/16/17 18:40	95-63-6	
1,3,5-Trimethylbenzene	147	mg/kg	10.5	2000		11/16/17 18:40	108-67-8	
Vinyl acetate	ND	mg/kg	10.5	100		11/15/17 22:38	108-05-4	
Vinyl chloride	ND	mg/kg	0.53	100		11/15/17 22:38	75-01-4	
Xylene (Total)	86.2	mg/kg	21.1	2000		11/16/17 18:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	69-136	100		11/15/17 22:38	1868-53-7	D4
Toluene-d8 (S)	108	%	64-150	100		11/15/17 22:38	2037-26-5	
4-Bromofluorobenzene (S)	123	%	51-142	100		11/15/17 22:38	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	23.0	%	0.10	1		11/14/17 15:40		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB04 (0-2) Lab ID: 50184326006 Collected: 11/13/17 13:30 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.9	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:33	7440-38-2	
Barium	104	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:33	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	11/16/17 06:13	11/19/17 13:33	7440-43-9	
Chromium	12.0	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:33	7440-47-3	
Lead	25.1	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:33	7439-92-1	
Selenium	2.1	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:33	7782-49-2	
Silver	ND	mg/kg	0.56	1	11/16/17 06:13	11/19/17 13:33	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.60	mg/kg	0.23	1	11/16/17 11:33	11/17/17 12:48	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	3.0	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	83-32-9	
Acenaphthylene	0.056	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	208-96-8	
Anthracene	5.9	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	120-12-7	
Benzo(a)anthracene	14.6	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	56-55-3	
Benzo(a)pyrene	10.4	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	50-32-8	
Benzo(b)fluoranthene	11.3	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	205-99-2	
Benzo(g,h,i)perylene	3.8	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	191-24-2	
Benzo(k)fluoranthene	8.1	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	207-08-9	
Chrysene	12.7	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	218-01-9	
Dibenz(a,h)anthracene	1.9	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	53-70-3	
Fluoranthene	33.1	mg/kg	0.15	25	11/14/17 22:55	11/16/17 16:46	206-44-0	
Fluorene	2.4	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	86-73-7	
Indeno(1,2,3-cd)pyrene	4.0	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	193-39-5	
1-Methylnaphthalene	0.30	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	90-12-0	N2
2-Methylnaphthalene	0.48	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	91-57-6	
Naphthalene	1.5	mg/kg	0.029	5	11/14/17 22:55	11/15/17 19:47	91-20-3	ED
Phenanthrene	20.3	mg/kg	0.15	25	11/14/17 22:55	11/16/17 16:46	85-01-8	
Pyrene	22.0	mg/kg	0.15	25	11/14/17 22:55	11/16/17 16:46	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%.	30-94	5	11/14/17 22:55	11/15/17 19:47	321-60-8	
p-Terphenyl-d14 (S)	57	%.	27-102	5	11/14/17 22:55	11/15/17 19:47	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.098	1		11/15/17 23:11	67-64-1	
Acrolein	ND	mg/kg	0.098	1		11/15/17 23:11	107-02-8	
Acrylonitrile	ND	mg/kg	0.098	1		11/15/17 23:11	107-13-1	
Benzene	ND	mg/kg	0.0049	1		11/15/17 23:11	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1		11/15/17 23:11	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1		11/15/17 23:11	75-27-4	
Bromoform	ND	mg/kg	0.0049	1		11/15/17 23:11	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1		11/15/17 23:11	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/15/17 23:11	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB04 (0-2) Lab ID: 50184326006 Collected: 11/13/17 13:30 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	98-06-6	
Carbon disulfide	ND	mg/kg	0.0098	1		11/15/17 23:11	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1		11/15/17 23:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1		11/15/17 23:11	75-00-3	
Chloroform	ND	mg/kg	0.0049	1		11/15/17 23:11	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1		11/15/17 23:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1		11/15/17 23:11	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	1		11/15/17 23:11	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0049	1		11/15/17 23:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		11/15/17 23:11	106-93-4	
Dibromomethane	ND	mg/kg	0.0049	1		11/15/17 23:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.098	1		11/15/17 23:11	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		11/15/17 23:11	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1		11/15/17 23:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1		11/15/17 23:11	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	1		11/15/17 23:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/15/17 23:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/15/17 23:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1		11/15/17 23:11	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1		11/15/17 23:11	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1		11/15/17 23:11	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1		11/15/17 23:11	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/15/17 23:11	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/15/17 23:11	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.098	1		11/15/17 23:11	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		11/15/17 23:11	87-68-3	
n-Hexane	ND	mg/kg	0.0049	1		11/15/17 23:11	110-54-3	
2-Hexanone	ND	mg/kg	0.098	1		11/15/17 23:11	591-78-6	
Iodomethane	ND	mg/kg	0.098	1		11/15/17 23:11	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		11/15/17 23:11	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1		11/15/17 23:11	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/15/17 23:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/15/17 23:11	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		11/15/17 23:11	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	103-65-1	
Styrene	ND	mg/kg	0.0049	1		11/15/17 23:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/15/17 23:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/15/17 23:11	79-34-5	
Tetrachloroethene	0.0057	mg/kg	0.0049	1		11/15/17 23:11	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB04 (0-2) Lab ID: 50184326006 Collected: 11/13/17 13:30 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0049	1		11/15/17 23:11	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		11/15/17 23:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		11/15/17 23:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1		11/15/17 23:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1		11/15/17 23:11	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		11/15/17 23:11	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0045	1		11/16/17 17:32	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		11/15/17 23:11	108-67-8	
Vinyl acetate	ND	mg/kg	0.098	1		11/15/17 23:11	108-05-4	
Vinyl chloride	ND	mg/kg	0.0049	1		11/15/17 23:11	75-01-4	
Xylene (Total)	ND	mg/kg	0.0098	1		11/15/17 23:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	69-136	1		11/15/17 23:11	1868-53-7	
Toluene-d8 (S)	98	%	64-150	1		11/15/17 23:11	2037-26-5	
4-Bromofluorobenzene (S)	101	%	51-142	1		11/15/17 23:11	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	15.5	%	0.10	1		11/14/17 15:40		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB04 (14-16) Lab ID: 50184326007 Collected: 11/13/17 13:50 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.6	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:35	7440-38-2	
Barium	68.7	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:35	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	11/16/17 06:13	11/19/17 13:35	7440-43-9	
Chromium	14.1	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:35	7440-47-3	
Lead	7.9	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:35	7439-92-1	
Selenium	2.1	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:35	7782-49-2	
Silver	ND	mg/kg	0.55	1	11/16/17 06:13	11/19/17 13:35	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/16/17 11:33	11/17/17 12:50	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	83-32-9	
Acenaphthylene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	208-96-8	
Anthracene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	207-08-9	
Chrysene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	53-70-3	
Fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	206-44-0	
Fluorene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	91-57-6	
Naphthalene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	91-20-3	
Phenanthrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	85-01-8	
Pyrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 20:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	50	%.	30-94	1	11/14/17 22:55	11/15/17 20:03	321-60-8	
p-Terphenyl-d14 (S)	58	%.	27-102	1	11/14/17 22:55	11/15/17 20:03	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.095	1		11/15/17 23:45	67-64-1	
Acrolein	ND	mg/kg	0.095	1		11/15/17 23:45	107-02-8	
Acrylonitrile	ND	mg/kg	0.095	1		11/15/17 23:45	107-13-1	
Benzene	ND	mg/kg	0.0047	1		11/15/17 23:45	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		11/15/17 23:45	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		11/15/17 23:45	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		11/15/17 23:45	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		11/15/17 23:45	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		11/15/17 23:45	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB04 (14-16) Lab ID: 50184326007 Collected: 11/13/17 13:50 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	98-06-6	
Carbon disulfide	ND	mg/kg	0.0095	1		11/15/17 23:45	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		11/15/17 23:45	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		11/15/17 23:45	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		11/15/17 23:45	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		11/15/17 23:45	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		11/15/17 23:45	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		11/15/17 23:45	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		11/15/17 23:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		11/15/17 23:45	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		11/15/17 23:45	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.095	1		11/15/17 23:45	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		11/15/17 23:45	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		11/15/17 23:45	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		11/15/17 23:45	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		11/15/17 23:45	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		11/15/17 23:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		11/15/17 23:45	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		11/15/17 23:45	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		11/15/17 23:45	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		11/15/17 23:45	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		11/15/17 23:45	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		11/15/17 23:45	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		11/15/17 23:45	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.095	1		11/15/17 23:45	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		11/15/17 23:45	87-68-3	
n-Hexane	ND	mg/kg	0.0047	1		11/15/17 23:45	110-54-3	
2-Hexanone	ND	mg/kg	0.095	1		11/15/17 23:45	591-78-6	
Iodomethane	ND	mg/kg	0.095	1		11/15/17 23:45	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		11/15/17 23:45	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		11/15/17 23:45	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		11/15/17 23:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		11/15/17 23:45	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		11/15/17 23:45	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	103-65-1	
Styrene	ND	mg/kg	0.0047	1		11/15/17 23:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		11/15/17 23:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		11/15/17 23:45	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		11/15/17 23:45	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB04 (14-16) Lab ID: 50184326007 Collected: 11/13/17 13:50 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0047	1		11/15/17 23:45	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		11/15/17 23:45	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		11/15/17 23:45	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		11/15/17 23:45	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		11/15/17 23:45	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		11/15/17 23:45	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		11/15/17 23:45	108-67-8	
Vinyl acetate	ND	mg/kg	0.095	1		11/15/17 23:45	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		11/15/17 23:45	75-01-4	
Xylene (Total)	ND	mg/kg	0.0095	1		11/15/17 23:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%	69-136	1		11/15/17 23:45	1868-53-7	
Toluene-d8 (S)	92	%	64-150	1		11/15/17 23:45	2037-26-5	
4-Bromofluorobenzene (S)	111	%	51-142	1		11/15/17 23:45	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	18.5	%	0.10	1		11/14/17 15:40		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB05 (0-2) Lab ID: 50184326008 Collected: 11/13/17 14:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.4	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:37	7440-38-2	
Barium	49.6	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:37	7440-39-3	
Cadmium	0.52	mg/kg	0.51	1	11/16/17 06:13	11/19/17 13:37	7440-43-9	
Chromium	13.9	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:37	7440-47-3	
Lead	140	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:37	7439-92-1	
Selenium	1.9	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:37	7782-49-2	
Silver	ND	mg/kg	0.51	1	11/16/17 06:13	11/19/17 13:37	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.66	mg/kg	0.22	1	11/16/17 11:33	11/17/17 12:53	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	83-32-9	
Acenaphthylene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	208-96-8	
Anthracene	0.039	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	120-12-7	
Benzo(a)anthracene	0.088	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	56-55-3	
Benzo(a)pyrene	0.076	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	50-32-8	
Benzo(b)fluoranthene	0.061	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	205-99-2	
Benzo(g,h,i)perylene	0.052	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	191-24-2	
Benzo(k)fluoranthene	0.070	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	207-08-9	
Chrysene	0.096	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	53-70-3	
Fluoranthene	0.19	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	206-44-0	
Fluorene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	86-73-7	
Indeno(1,2,3-cd)pyrene	0.040	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	91-57-6	
Naphthalene	0.027	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	91-20-3	ED
Phenanthrene	0.16	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	85-01-8	
Pyrene	0.16	mg/kg	0.027	5	11/14/17 22:55	11/15/17 20:20	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	45	%.	30-94	5	11/14/17 22:55	11/15/17 20:20	321-60-8	
p-Terphenyl-d14 (S)	47	%.	27-102	5	11/14/17 22:55	11/15/17 20:20	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.11	1		11/16/17 00:18	67-64-1	
Acrolein	ND	mg/kg	0.11	1		11/16/17 00:18	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		11/16/17 00:18	107-13-1	
Benzene	ND	mg/kg	0.0053	1		11/16/17 00:18	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		11/16/17 00:18	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		11/16/17 00:18	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		11/16/17 00:18	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		11/16/17 00:18	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		11/16/17 00:18	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB05 (0-2) Lab ID: 50184326008 Collected: 11/13/17 14:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		11/16/17 00:18	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		11/16/17 00:18	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		11/16/17 00:18	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		11/16/17 00:18	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		11/16/17 00:18	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		11/16/17 00:18	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		11/16/17 00:18	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		11/16/17 00:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0053	1		11/16/17 00:18	106-93-4	
Dibromomethane	ND	mg/kg	0.0053	1		11/16/17 00:18	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		11/16/17 00:18	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		11/16/17 00:18	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		11/16/17 00:18	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		11/16/17 00:18	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		11/16/17 00:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		11/16/17 00:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		11/16/17 00:18	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		11/16/17 00:18	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		11/16/17 00:18	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		11/16/17 00:18	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		11/16/17 00:18	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		11/16/17 00:18	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		11/16/17 00:18	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		11/16/17 00:18	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0053	1		11/16/17 00:18	87-68-3	
n-Hexane	ND	mg/kg	0.0053	1		11/16/17 00:18	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1		11/16/17 00:18	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		11/16/17 00:18	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		11/16/17 00:18	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		11/16/17 00:18	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		11/16/17 00:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		11/16/17 00:18	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		11/16/17 00:18	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	103-65-1	
Styrene	ND	mg/kg	0.0053	1		11/16/17 00:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		11/16/17 00:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		11/16/17 00:18	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0053	1		11/16/17 00:18	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB05 (0-2) Lab ID: 50184326008 Collected: 11/13/17 14:15 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0053	1		11/16/17 00:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		11/16/17 00:18	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		11/16/17 00:18	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		11/16/17 00:18	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		11/16/17 00:18	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0053	1		11/16/17 00:18	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		11/16/17 00:18	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		11/16/17 00:18	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		11/16/17 00:18	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		11/16/17 00:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%	69-136	1		11/16/17 00:18	1868-53-7	
Toluene-d8 (S)	96	%	64-150	1		11/16/17 00:18	2037-26-5	
4-Bromofluorobenzene (S)	106	%	51-142	1		11/16/17 00:18	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	5.7	%	0.10	1		11/14/17 15:40		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB05 (14-16) Lab ID: 50184326009 Collected: 11/13/17 14:30 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	2.9	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:39	7440-38-2	
Barium	40.0	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:39	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	11/16/17 06:13	11/19/17 13:39	7440-43-9	
Chromium	10.2	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:39	7440-47-3	
Lead	7.6	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:39	7439-92-1	
Selenium	1.3	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:39	7782-49-2	
Silver	ND	mg/kg	0.55	1	11/16/17 06:13	11/19/17 13:39	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/16/17 11:33	11/17/17 12:55	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	208-96-8	
Anthracene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	207-08-9	
Chrysene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	53-70-3	
Fluoranthene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	91-20-3	
Phenanthrene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	85-01-8	
Pyrene	ND	mg/kg	0.0060	1	11/14/17 22:55	11/15/17 21:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	38	%.	30-94	1	11/14/17 22:55	11/15/17 21:59	321-60-8	
p-Terphenyl-d14 (S)	44	%.	27-102	1	11/14/17 22:55	11/15/17 21:59	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.088	1		11/16/17 00:52	67-64-1	
Acrolein	ND	mg/kg	0.088	1		11/16/17 00:52	107-02-8	
Acrylonitrile	ND	mg/kg	0.088	1		11/16/17 00:52	107-13-1	
Benzene	ND	mg/kg	0.0044	1		11/16/17 00:52	71-43-2	
Bromobenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	108-86-1	
Bromochloromethane	ND	mg/kg	0.0044	1		11/16/17 00:52	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0044	1		11/16/17 00:52	75-27-4	
Bromoform	ND	mg/kg	0.0044	1		11/16/17 00:52	75-25-2	
Bromomethane	ND	mg/kg	0.0044	1		11/16/17 00:52	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.022	1		11/16/17 00:52	78-93-3	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB05 (14-16) Lab ID: 50184326009 Collected: 11/13/17 14:30 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	98-06-6	
Carbon disulfide	ND	mg/kg	0.0088	1		11/16/17 00:52	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0044	1		11/16/17 00:52	56-23-5	
Chlorobenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	108-90-7	
Chloroethane	ND	mg/kg	0.0044	1		11/16/17 00:52	75-00-3	
Chloroform	ND	mg/kg	0.0044	1		11/16/17 00:52	67-66-3	
Chloromethane	ND	mg/kg	0.0044	1		11/16/17 00:52	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0044	1		11/16/17 00:52	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0044	1		11/16/17 00:52	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0044	1		11/16/17 00:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0044	1		11/16/17 00:52	106-93-4	
Dibromomethane	ND	mg/kg	0.0044	1		11/16/17 00:52	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.088	1		11/16/17 00:52	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0044	1		11/16/17 00:52	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0044	1		11/16/17 00:52	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0044	1		11/16/17 00:52	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0044	1		11/16/17 00:52	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/16/17 00:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/16/17 00:52	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0044	1		11/16/17 00:52	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0044	1		11/16/17 00:52	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0044	1		11/16/17 00:52	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0044	1		11/16/17 00:52	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/16/17 00:52	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/16/17 00:52	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.088	1		11/16/17 00:52	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0044	1		11/16/17 00:52	87-68-3	
n-Hexane	ND	mg/kg	0.0044	1		11/16/17 00:52	110-54-3	
2-Hexanone	ND	mg/kg	0.088	1		11/16/17 00:52	591-78-6	
Iodomethane	ND	mg/kg	0.088	1		11/16/17 00:52	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0044	1		11/16/17 00:52	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0044	1		11/16/17 00:52	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		11/16/17 00:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		11/16/17 00:52	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0044	1		11/16/17 00:52	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	103-65-1	
Styrene	ND	mg/kg	0.0044	1		11/16/17 00:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/16/17 00:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/16/17 00:52	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0044	1		11/16/17 00:52	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB05 (14-16) Lab ID: 50184326009 Collected: 11/13/17 14:30 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0044	1		11/16/17 00:52	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0044	1		11/16/17 00:52	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0044	1		11/16/17 00:52	79-00-5	
Trichloroethene	ND	mg/kg	0.0044	1		11/16/17 00:52	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0044	1		11/16/17 00:52	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0044	1		11/16/17 00:52	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0044	1		11/16/17 00:52	108-67-8	
Vinyl acetate	ND	mg/kg	0.088	1		11/16/17 00:52	108-05-4	
Vinyl chloride	ND	mg/kg	0.0044	1		11/16/17 00:52	75-01-4	
Xylene (Total)	ND	mg/kg	0.0088	1		11/16/17 00:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%	69-136	1		11/16/17 00:52	1868-53-7	
Toluene-d8 (S)	96	%	64-150	1		11/16/17 00:52	2037-26-5	
4-Bromofluorobenzene (S)	104	%	51-142	1		11/16/17 00:52	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	17.5	%	0.10	1		11/14/17 15:41		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB06 (0-2) Lab ID: 50184326010 Collected: 11/13/17 14:55 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	22.7	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:41	7440-38-2	
Barium	56.8	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:41	7440-39-3	
Cadmium	ND	mg/kg	0.54	1	11/16/17 06:13	11/19/17 13:41	7440-43-9	
Chromium	19.5	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:41	7440-47-3	
Lead	92.4	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:41	7439-92-1	
Selenium	17.3	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:41	7782-49-2	
Silver	ND	mg/kg	0.54	1	11/16/17 06:13	11/19/17 13:41	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/16/17 11:33	11/17/17 12:57	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	83-32-9	
Acenaphthylene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	208-96-8	
Anthracene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	120-12-7	
Benzo(a)anthracene	0.064	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	56-55-3	
Benzo(a)pyrene	0.065	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	50-32-8	
Benzo(b)fluoranthene	0.055	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	205-99-2	
Benzo(g,h,i)perylene	0.057	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	191-24-2	
Benzo(k)fluoranthene	0.062	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	207-08-9	
Chrysene	0.077	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	53-70-3	
Fluoranthene	0.13	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	206-44-0	
Fluorene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	86-73-7	
Indeno(1,2,3-cd)pyrene	0.040	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	91-57-6	
Naphthalene	ND	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	91-20-3	ED
Phenanthrene	0.077	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	85-01-8	
Pyrene	0.10	mg/kg	0.027	5	11/14/17 22:55	11/15/17 22:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	48	%.	30-94	5	11/14/17 22:55	11/15/17 22:15	321-60-8	
p-Terphenyl-d14 (S)	51	%.	27-102	5	11/14/17 22:55	11/15/17 22:15	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.092	1		11/16/17 06:26	67-64-1	
Acrolein	ND	mg/kg	0.092	1		11/16/17 06:26	107-02-8	
Acrylonitrile	ND	mg/kg	0.092	1		11/16/17 06:26	107-13-1	
Benzene	ND	mg/kg	0.0046	1		11/16/17 06:26	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	108-86-1	
Bromochloromethane	ND	mg/kg	0.0046	1		11/16/17 06:26	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	1		11/16/17 06:26	75-27-4	
Bromoform	ND	mg/kg	0.0046	1		11/16/17 06:26	75-25-2	
Bromomethane	ND	mg/kg	0.0046	1		11/16/17 06:26	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		11/16/17 06:26	78-93-3	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB06 (0-2) Lab ID: 50184326010 Collected: 11/13/17 14:55 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	98-06-6	
Carbon disulfide	ND	mg/kg	0.0092	1		11/16/17 06:26	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0046	1		11/16/17 06:26	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	108-90-7	
Chloroethane	ND	mg/kg	0.0046	1		11/16/17 06:26	75-00-3	
Chloroform	ND	mg/kg	0.0046	1		11/16/17 06:26	67-66-3	
Chloromethane	ND	mg/kg	0.0046	1		11/16/17 06:26	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	1		11/16/17 06:26	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	1		11/16/17 06:26	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0046	1		11/16/17 06:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	1		11/16/17 06:26	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	1		11/16/17 06:26	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.092	1		11/16/17 06:26	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0046	1		11/16/17 06:26	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0046	1		11/16/17 06:26	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	1		11/16/17 06:26	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	1		11/16/17 06:26	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0046	1		11/16/17 06:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	1		11/16/17 06:26	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	1		11/16/17 06:26	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	1		11/16/17 06:26	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	1		11/16/17 06:26	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	1		11/16/17 06:26	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	1		11/16/17 06:26	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	1		11/16/17 06:26	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.092	1		11/16/17 06:26	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	1		11/16/17 06:26	87-68-3	
n-Hexane	ND	mg/kg	0.0046	1		11/16/17 06:26	110-54-3	
2-Hexanone	ND	mg/kg	0.092	1		11/16/17 06:26	591-78-6	
Iodomethane	ND	mg/kg	0.092	1		11/16/17 06:26	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	1		11/16/17 06:26	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0046	1		11/16/17 06:26	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		11/16/17 06:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		11/16/17 06:26	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	1		11/16/17 06:26	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	103-65-1	
Styrene	ND	mg/kg	0.0046	1		11/16/17 06:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0046	1		11/16/17 06:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0046	1		11/16/17 06:26	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0046	1		11/16/17 06:26	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB06 (0-2) Lab ID: 50184326010 Collected: 11/13/17 14:55 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0046	1		11/16/17 06:26	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0046	1		11/16/17 06:26	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0046	1		11/16/17 06:26	79-00-5	
Trichloroethene	ND	mg/kg	0.0046	1		11/16/17 06:26	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0046	1		11/16/17 06:26	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0046	1		11/16/17 06:26	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	1		11/16/17 06:26	108-67-8	
Vinyl acetate	ND	mg/kg	0.092	1		11/16/17 06:26	108-05-4	
Vinyl chloride	ND	mg/kg	0.0046	1		11/16/17 06:26	75-01-4	
Xylene (Total)	ND	mg/kg	0.0092	1		11/16/17 06:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%	69-136	1		11/16/17 06:26	1868-53-7	
Toluene-d8 (S)	98	%	64-150	1		11/16/17 06:26	2037-26-5	
4-Bromofluorobenzene (S)	104	%	51-142	1		11/16/17 06:26	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	6.8	%	0.10	1		11/14/17 15:41		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 3060A						
Chromium, Hexavalent	ND	mg/kg	2.1	1	12/14/17 11:42	12/14/17 17:46	18540-29-9	H3

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB06 (16-18) Lab ID: 50184326011 Collected: 11/13/17 15:10 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	3.5	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:44	7440-38-2	
Barium	53.0	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:44	7440-39-3	
Cadmium	ND	mg/kg	0.58	1	11/16/17 06:13	11/19/17 13:44	7440-43-9	
Chromium	11.9	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:44	7440-47-3	
Lead	7.3	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:44	7439-92-1	
Selenium	1.5	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:44	7782-49-2	
Silver	ND	mg/kg	0.58	1	11/16/17 06:13	11/19/17 13:44	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/16/17 11:33	11/17/17 12:59	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	83-32-9	
Acenaphthylene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	208-96-8	
Anthracene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	120-12-7	
Benzo(a)anthracene	0.033	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	207-08-9	
Chrysene	0.031	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	53-70-3	
Fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	206-44-0	
Fluorene	0.0064	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	193-39-5	
1-Methylnaphthalene	0.074	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	91-57-6	
Naphthalene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	91-20-3	
Phenanthrene	0.011	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	85-01-8	
Pyrene	0.012	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 22:32	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	48	%.	30-94	1	11/14/17 22:55	11/15/17 22:32	321-60-8	
p-Terphenyl-d14 (S)	56	%.	27-102	1	11/14/17 22:55	11/15/17 22:32	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	9.4	100		11/16/17 07:00	67-64-1	
Acrolein	ND	mg/kg	9.4	100		11/16/17 07:00	107-02-8	
Acrylonitrile	ND	mg/kg	9.4	100		11/16/17 07:00	107-13-1	
Benzene	ND	mg/kg	0.47	100		11/16/17 07:00	71-43-2	1d,D3
Bromobenzene	ND	mg/kg	0.47	100		11/16/17 07:00	108-86-1	
Bromochloromethane	ND	mg/kg	0.47	100		11/16/17 07:00	74-97-5	
Bromodichloromethane	ND	mg/kg	0.47	100		11/16/17 07:00	75-27-4	
Bromoform	ND	mg/kg	0.47	100		11/16/17 07:00	75-25-2	
Bromomethane	ND	mg/kg	0.47	100		11/16/17 07:00	74-83-9	
2-Butanone (MEK)	ND	mg/kg	2.4	100		11/16/17 07:00	78-93-3	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB06 (16-18) Lab ID: 50184326011 Collected: 11/13/17 15:10 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.47	100		11/16/17 07:00	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.47	100		11/16/17 07:00	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.47	100		11/16/17 07:00	98-06-6	
Carbon disulfide	ND	mg/kg	0.94	100		11/16/17 07:00	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.47	100		11/16/17 07:00	56-23-5	
Chlorobenzene	ND	mg/kg	0.47	100		11/16/17 07:00	108-90-7	
Chloroethane	ND	mg/kg	0.47	100		11/16/17 07:00	75-00-3	
Chloroform	ND	mg/kg	0.47	100		11/16/17 07:00	67-66-3	
Chloromethane	ND	mg/kg	0.47	100		11/16/17 07:00	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.47	100		11/16/17 07:00	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.47	100		11/16/17 07:00	106-43-4	
Dibromochloromethane	ND	mg/kg	0.47	100		11/16/17 07:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.47	100		11/16/17 07:00	106-93-4	
Dibromomethane	ND	mg/kg	0.47	100		11/16/17 07:00	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.47	100		11/16/17 07:00	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.47	100		11/16/17 07:00	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.47	100		11/16/17 07:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	9.4	100		11/16/17 07:00	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.47	100		11/16/17 07:00	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.47	100		11/16/17 07:00	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.47	100		11/16/17 07:00	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.47	100		11/16/17 07:00	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.47	100		11/16/17 07:00	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.47	100		11/16/17 07:00	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.47	100		11/16/17 07:00	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.47	100		11/16/17 07:00	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.47	100		11/16/17 07:00	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.47	100		11/16/17 07:00	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.47	100		11/16/17 07:00	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.47	100		11/16/17 07:00	10061-02-6	
Ethylbenzene	ND	mg/kg	0.47	100		11/16/17 07:00	100-41-4	
Ethyl methacrylate	ND	mg/kg	9.4	100		11/16/17 07:00	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.47	100		11/16/17 07:00	87-68-3	
n-Hexane	ND	mg/kg	0.47	100		11/16/17 07:00	110-54-3	
2-Hexanone	ND	mg/kg	9.4	100		11/16/17 07:00	591-78-6	
Iodomethane	ND	mg/kg	9.4	100		11/16/17 07:00	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.47	100		11/16/17 07:00	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.47	100		11/16/17 07:00	99-87-6	
Methylene Chloride	ND	mg/kg	1.9	100		11/16/17 07:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.4	100		11/16/17 07:00	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.47	100		11/16/17 07:00	1634-04-4	2d
n-Propylbenzene	ND	mg/kg	0.47	100		11/16/17 07:00	103-65-1	
Styrene	ND	mg/kg	0.47	100		11/16/17 07:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.47	100		11/16/17 07:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.47	100		11/16/17 07:00	79-34-5	
Tetrachloroethene	ND	mg/kg	0.47	100		11/16/17 07:00	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB06 (16-18) Lab ID: 50184326011 Collected: 11/13/17 15:10 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.47	100		11/16/17 07:00	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.47	100		11/16/17 07:00	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.47	100		11/16/17 07:00	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.47	100		11/16/17 07:00	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.47	100		11/16/17 07:00	79-00-5	
Trichloroethene	ND	mg/kg	0.47	100		11/16/17 07:00	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.47	100		11/16/17 07:00	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.47	100		11/16/17 07:00	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.47	100		11/16/17 07:00	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.47	100		11/16/17 07:00	108-67-8	
Vinyl acetate	ND	mg/kg	9.4	100		11/16/17 07:00	108-05-4	
Vinyl chloride	ND	mg/kg	0.47	100		11/16/17 07:00	75-01-4	
Xylene (Total)	ND	mg/kg	0.94	100		11/16/17 07:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	69-136	100		11/16/17 07:00	1868-53-7	
Toluene-d8 (S)	102	%	64-150	100		11/16/17 07:00	2037-26-5	
4-Bromofluorobenzene (S)	104	%	51-142	100		11/16/17 07:00	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	18.4	%	0.10	1		11/14/17 15:41		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB07 (14-16) Lab ID: 50184326013 Collected: 11/13/17 10:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.3	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:50	7440-38-2	
Barium	72.3	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:50	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	11/16/17 06:13	11/19/17 13:50	7440-43-9	
Chromium	14.9	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:50	7440-47-3	
Lead	9.7	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:50	7439-92-1	
Selenium	2.4	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:50	7782-49-2	
Silver	ND	mg/kg	0.56	1	11/16/17 06:13	11/19/17 13:50	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/16/17 11:33	11/17/17 13:01	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	83-32-9	
Acenaphthylene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	208-96-8	
Anthracene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	207-08-9	
Chrysene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	53-70-3	
Fluoranthene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	206-44-0	
Fluorene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	91-57-6	
Naphthalene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	91-20-3	
Phenanthrene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	85-01-8	
Pyrene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 22:48	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	50	%.	30-94	1	11/14/17 22:55	11/15/17 22:48	321-60-8	
p-Terphenyl-d14 (S)	55	%.	27-102	1	11/14/17 22:55	11/15/17 22:48	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.10	1		11/16/17 08:07	67-64-1	
Acrolein	ND	mg/kg	0.10	1		11/16/17 08:07	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		11/16/17 08:07	107-13-1	
Benzene	ND	mg/kg	0.0051	1		11/16/17 08:07	71-43-2	
Bromobenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	108-86-1	
Bromochloromethane	ND	mg/kg	0.0051	1		11/16/17 08:07	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0051	1		11/16/17 08:07	75-27-4	
Bromoform	ND	mg/kg	0.0051	1		11/16/17 08:07	75-25-2	
Bromomethane	ND	mg/kg	0.0051	1		11/16/17 08:07	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/16/17 08:07	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB07 (14-16) Lab ID: 50184326013 Collected: 11/13/17 10:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		11/16/17 08:07	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0051	1		11/16/17 08:07	56-23-5	
Chlorobenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	108-90-7	
Chloroethane	ND	mg/kg	0.0051	1		11/16/17 08:07	75-00-3	
Chloroform	ND	mg/kg	0.0051	1		11/16/17 08:07	67-66-3	
Chloromethane	ND	mg/kg	0.0051	1		11/16/17 08:07	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0051	1		11/16/17 08:07	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0051	1		11/16/17 08:07	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0051	1		11/16/17 08:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0051	1		11/16/17 08:07	106-93-4	
Dibromomethane	ND	mg/kg	0.0051	1		11/16/17 08:07	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/16/17 08:07	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0051	1		11/16/17 08:07	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0051	1		11/16/17 08:07	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0051	1		11/16/17 08:07	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0051	1		11/16/17 08:07	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0051	1		11/16/17 08:07	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0051	1		11/16/17 08:07	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0051	1		11/16/17 08:07	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0051	1		11/16/17 08:07	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0051	1		11/16/17 08:07	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0051	1		11/16/17 08:07	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0051	1		11/16/17 08:07	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0051	1		11/16/17 08:07	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		11/16/17 08:07	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0051	1		11/16/17 08:07	87-68-3	
n-Hexane	ND	mg/kg	0.0051	1		11/16/17 08:07	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		11/16/17 08:07	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		11/16/17 08:07	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0051	1		11/16/17 08:07	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0051	1		11/16/17 08:07	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/16/17 08:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/16/17 08:07	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0051	1		11/16/17 08:07	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	103-65-1	
Styrene	ND	mg/kg	0.0051	1		11/16/17 08:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0051	1		11/16/17 08:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0051	1		11/16/17 08:07	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0051	1		11/16/17 08:07	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: **SB07 (14-16)** Lab ID: **50184326013** Collected: 11/13/17 10:15 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0051	1		11/16/17 08:07	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0051	1		11/16/17 08:07	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0051	1		11/16/17 08:07	79-00-5	
Trichloroethene	ND	mg/kg	0.0051	1		11/16/17 08:07	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0051	1		11/16/17 08:07	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0051	1		11/16/17 08:07	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0051	1		11/16/17 08:07	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		11/16/17 08:07	108-05-4	
Vinyl chloride	ND	mg/kg	0.0051	1		11/16/17 08:07	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		11/16/17 08:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	69-136	1		11/16/17 08:07	1868-53-7	
Toluene-d8 (S)	107	%	64-150	1		11/16/17 08:07	2037-26-5	
4-Bromofluorobenzene (S)	128	%	51-142	1		11/16/17 08:07	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	19.7	%	0.10	1		11/14/17 15:41		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB08 (0-2) Lab ID: 50184326014 Collected: 11/13/17 10:40 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	12.0	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:52	7440-38-2	
Barium	70.1	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:52	7440-39-3	
Cadmium	0.74	mg/kg	0.52	1	11/16/17 06:13	11/19/17 13:52	7440-43-9	
Chromium	15.4	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:52	7440-47-3	
Lead	75.2	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:52	7439-92-1	
Selenium	4.9	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:52	7782-49-2	
Silver	ND	mg/kg	0.52	1	11/16/17 06:13	11/19/17 13:52	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	1.7	mg/kg	0.22	1	11/16/17 11:33	11/17/17 13:03	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	83-32-9	
Acenaphthylene	0.028	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	208-96-8	
Anthracene	0.028	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	120-12-7	
Benzo(a)anthracene	0.12	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	56-55-3	
Benzo(a)pyrene	0.16	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	50-32-8	
Benzo(b)fluoranthene	0.11	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	205-99-2	
Benzo(g,h,i)perylene	0.10	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	191-24-2	
Benzo(k)fluoranthene	0.13	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	207-08-9	
Chrysene	0.11	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	218-01-9	
Dibenz(a,h)anthracene	0.047	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	53-70-3	
Fluoranthene	0.19	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	206-44-0	
Fluorene	ND	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	86-73-7	
Indeno(1,2,3-cd)pyrene	0.088	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	90-12-0	N2
2-Methylnaphthalene	0.0072	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	91-57-6	
Naphthalene	0.012	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	91-20-3	
Phenanthrene	0.11	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	85-01-8	
Pyrene	0.18	mg/kg	0.0057	1	11/14/17 22:55	11/15/17 23:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	49	%.	30-94	1	11/14/17 22:55	11/15/17 23:05	321-60-8	
p-Terphenyl-d14 (S)	51	%.	27-102	1	11/14/17 22:55	11/15/17 23:05	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.099	1		11/16/17 08:41	67-64-1	
Acrolein	ND	mg/kg	0.099	1		11/16/17 08:41	107-02-8	
Acrylonitrile	ND	mg/kg	0.099	1		11/16/17 08:41	107-13-1	
Benzene	ND	mg/kg	0.0049	1		11/16/17 08:41	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1		11/16/17 08:41	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1		11/16/17 08:41	75-27-4	
Bromoform	ND	mg/kg	0.0049	1		11/16/17 08:41	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1		11/16/17 08:41	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/16/17 08:41	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB08 (0-2) Lab ID: 50184326014 Collected: 11/13/17 10:40 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	98-06-6	
Carbon disulfide	ND	mg/kg	0.0099	1		11/16/17 08:41	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1		11/16/17 08:41	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1		11/16/17 08:41	75-00-3	
Chloroform	ND	mg/kg	0.0049	1		11/16/17 08:41	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1		11/16/17 08:41	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1		11/16/17 08:41	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	1		11/16/17 08:41	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0049	1		11/16/17 08:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		11/16/17 08:41	106-93-4	
Dibromomethane	ND	mg/kg	0.0049	1		11/16/17 08:41	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.099	1		11/16/17 08:41	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		11/16/17 08:41	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1		11/16/17 08:41	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1		11/16/17 08:41	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	1		11/16/17 08:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/16/17 08:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/16/17 08:41	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1		11/16/17 08:41	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1		11/16/17 08:41	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1		11/16/17 08:41	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1		11/16/17 08:41	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/16/17 08:41	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/16/17 08:41	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.099	1		11/16/17 08:41	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		11/16/17 08:41	87-68-3	
n-Hexane	ND	mg/kg	0.0049	1		11/16/17 08:41	110-54-3	
2-Hexanone	ND	mg/kg	0.099	1		11/16/17 08:41	591-78-6	
Iodomethane	ND	mg/kg	0.099	1		11/16/17 08:41	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		11/16/17 08:41	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1		11/16/17 08:41	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/16/17 08:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/16/17 08:41	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		11/16/17 08:41	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	103-65-1	
Styrene	ND	mg/kg	0.0049	1		11/16/17 08:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/16/17 08:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/16/17 08:41	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	1		11/16/17 08:41	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB08 (0-2) Lab ID: 50184326014 Collected: 11/13/17 10:40 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0049	1		11/16/17 08:41	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		11/16/17 08:41	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		11/16/17 08:41	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1		11/16/17 08:41	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1		11/16/17 08:41	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		11/16/17 08:41	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		11/16/17 08:41	108-67-8	
Vinyl acetate	ND	mg/kg	0.099	1		11/16/17 08:41	108-05-4	
Vinyl chloride	ND	mg/kg	0.0049	1		11/16/17 08:41	75-01-4	
Xylene (Total)	ND	mg/kg	0.0099	1		11/16/17 08:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	116	%	69-136	1		11/16/17 08:41	1868-53-7	
Toluene-d8 (S)	95	%	64-150	1		11/16/17 08:41	2037-26-5	
4-Bromofluorobenzene (S)	104	%	51-142	1		11/16/17 08:41	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	13.4	%	0.10	1		11/14/17 15:41		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB08 (12-14) Lab ID: 50184326015 Collected: 11/13/17 11:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	10.6	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:54	7440-38-2	
Barium	69.9	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:54	7440-39-3	
Cadmium	ND	mg/kg	0.51	1	11/16/17 06:13	11/19/17 13:54	7440-43-9	
Chromium	14.6	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:54	7440-47-3	
Lead	9.4	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:54	7439-92-1	
Selenium	2.4	mg/kg	1.0	1	11/16/17 06:13	11/19/17 13:54	7782-49-2	
Silver	ND	mg/kg	0.51	1	11/16/17 06:13	11/19/17 13:54	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/16/17 11:33	11/17/17 13:05	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	83-32-9	
Acenaphthylene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	208-96-8	
Anthracene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	207-08-9	
Chrysene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	53-70-3	
Fluoranthene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	206-44-0	
Fluorene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	91-57-6	
Naphthalene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	91-20-3	
Phenanthrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	85-01-8	
Pyrene	ND	mg/kg	0.0061	1	11/14/17 22:55	11/15/17 23:21	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	48	%.	30-94	1	11/14/17 22:55	11/15/17 23:21	321-60-8	
p-Terphenyl-d14 (S)	61	%.	27-102	1	11/14/17 22:55	11/15/17 23:21	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	4.8	50		11/16/17 09:15	67-64-1	
Acrolein	ND	mg/kg	4.8	50		11/16/17 09:15	107-02-8	
Acrylonitrile	ND	mg/kg	4.8	50		11/16/17 09:15	107-13-1	
Benzene	ND	mg/kg	0.24	50		11/16/17 09:15	71-43-2	1d,D3
Bromobenzene	ND	mg/kg	0.24	50		11/16/17 09:15	108-86-1	
Bromochloromethane	ND	mg/kg	0.24	50		11/16/17 09:15	74-97-5	
Bromodichloromethane	ND	mg/kg	0.24	50		11/16/17 09:15	75-27-4	
Bromoform	ND	mg/kg	0.24	50		11/16/17 09:15	75-25-2	
Bromomethane	ND	mg/kg	0.24	50		11/16/17 09:15	74-83-9	
2-Butanone (MEK)	ND	mg/kg	1.2	50		11/16/17 09:15	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB08 (12-14) Lab ID: 50184326015 Collected: 11/13/17 11:15 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.24	50		11/16/17 09:15	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.24	50		11/16/17 09:15	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.24	50		11/16/17 09:15	98-06-6	
Carbon disulfide	ND	mg/kg	0.48	50		11/16/17 09:15	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.24	50		11/16/17 09:15	56-23-5	
Chlorobenzene	ND	mg/kg	0.24	50		11/16/17 09:15	108-90-7	
Chloroethane	ND	mg/kg	0.24	50		11/16/17 09:15	75-00-3	
Chloroform	ND	mg/kg	0.24	50		11/16/17 09:15	67-66-3	
Chloromethane	ND	mg/kg	0.24	50		11/16/17 09:15	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.24	50		11/16/17 09:15	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.24	50		11/16/17 09:15	106-43-4	
Dibromochloromethane	ND	mg/kg	0.24	50		11/16/17 09:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.24	50		11/16/17 09:15	106-93-4	
Dibromomethane	ND	mg/kg	0.24	50		11/16/17 09:15	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.24	50		11/16/17 09:15	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.24	50		11/16/17 09:15	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.24	50		11/16/17 09:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	4.8	50		11/16/17 09:15	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.24	50		11/16/17 09:15	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.24	50		11/16/17 09:15	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.24	50		11/16/17 09:15	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.24	50		11/16/17 09:15	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.24	50		11/16/17 09:15	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.24	50		11/16/17 09:15	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.24	50		11/16/17 09:15	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.24	50		11/16/17 09:15	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	50		11/16/17 09:15	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.24	50		11/16/17 09:15	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.24	50		11/16/17 09:15	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	50		11/16/17 09:15	10061-02-6	
Ethylbenzene	ND	mg/kg	0.24	50		11/16/17 09:15	100-41-4	
Ethyl methacrylate	ND	mg/kg	4.8	50		11/16/17 09:15	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.24	50		11/16/17 09:15	87-68-3	
n-Hexane	ND	mg/kg	0.24	50		11/16/17 09:15	110-54-3	
2-Hexanone	ND	mg/kg	4.8	50		11/16/17 09:15	591-78-6	
Iodomethane	ND	mg/kg	4.8	50		11/16/17 09:15	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.24	50		11/16/17 09:15	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.24	50		11/16/17 09:15	99-87-6	
Methylene Chloride	ND	mg/kg	0.96	50		11/16/17 09:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.2	50		11/16/17 09:15	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.24	50		11/16/17 09:15	1634-04-4	2d
n-Propylbenzene	ND	mg/kg	0.24	50		11/16/17 09:15	103-65-1	
Styrene	ND	mg/kg	0.24	50		11/16/17 09:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.24	50		11/16/17 09:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	50		11/16/17 09:15	79-34-5	
Tetrachloroethene	ND	mg/kg	0.24	50		11/16/17 09:15	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: SB08 (12-14) Lab ID: 50184326015 Collected: 11/13/17 11:15 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.24	50		11/16/17 09:15	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.24	50		11/16/17 09:15	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.24	50		11/16/17 09:15	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.24	50		11/16/17 09:15	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.24	50		11/16/17 09:15	79-00-5	
Trichloroethene	ND	mg/kg	0.24	50		11/16/17 09:15	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	50		11/16/17 09:15	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.24	50		11/16/17 09:15	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.24	50		11/16/17 09:15	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.24	50		11/16/17 09:15	108-67-8	
Vinyl acetate	ND	mg/kg	4.8	50		11/16/17 09:15	108-05-4	
Vinyl chloride	ND	mg/kg	0.24	50		11/16/17 09:15	75-01-4	
Xylene (Total)	ND	mg/kg	0.48	50		11/16/17 09:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	69-136	50		11/16/17 09:15	1868-53-7	
Toluene-d8 (S)	102	%	64-150	50		11/16/17 09:15	2037-26-5	
4-Bromofluorobenzene (S)	106	%	51-142	50		11/16/17 09:15	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	18.2	%	0.10	1		11/14/17 15:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: DUP-SL1 Lab ID: 50184326016 Collected: 11/13/17 08:00 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.6	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:56	7440-38-2	
Barium	82.7	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:56	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	11/16/17 06:13	11/19/17 13:56	7440-43-9	
Chromium	13.3	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:56	7440-47-3	
Lead	12.6	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:56	7439-92-1	
Selenium	2.2	mg/kg	1.1	1	11/16/17 06:13	11/19/17 13:56	7782-49-2	
Silver	ND	mg/kg	0.55	1	11/16/17 06:13	11/19/17 13:56	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/16/17 11:33	11/17/17 13:12	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	83-32-9	
Acenaphthylene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	208-96-8	
Anthracene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	207-08-9	
Chrysene	0.011	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	53-70-3	
Fluoranthene	0.0065	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	206-44-0	
Fluorene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	91-57-6	
Naphthalene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	91-20-3	
Phenanthrene	ND	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	85-01-8	
Pyrene	0.0081	mg/kg	0.0062	1	11/14/17 22:55	11/15/17 23:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	49	%.	30-94	1	11/14/17 22:55	11/15/17 23:38	321-60-8	
p-Terphenyl-d14 (S)	65	%.	27-102	1	11/14/17 22:55	11/15/17 23:38	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.10	1		11/16/17 09:48	67-64-1	
Acrolein	ND	mg/kg	0.10	1		11/16/17 09:48	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		11/16/17 09:48	107-13-1	
Benzene	ND	mg/kg	0.0052	1		11/16/17 09:48	71-43-2	
Bromobenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	108-86-1	
Bromochloromethane	ND	mg/kg	0.0052	1		11/16/17 09:48	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0052	1		11/16/17 09:48	75-27-4	
Bromoform	ND	mg/kg	0.0052	1		11/16/17 09:48	75-25-2	
Bromomethane	ND	mg/kg	0.0052	1		11/16/17 09:48	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		11/16/17 09:48	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: DUP-SL1 Lab ID: 50184326016 Collected: 11/13/17 08:00 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		11/16/17 09:48	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0052	1		11/16/17 09:48	56-23-5	
Chlorobenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	108-90-7	
Chloroethane	ND	mg/kg	0.0052	1		11/16/17 09:48	75-00-3	
Chloroform	ND	mg/kg	0.0052	1		11/16/17 09:48	67-66-3	
Chloromethane	ND	mg/kg	0.0052	1		11/16/17 09:48	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0052	1		11/16/17 09:48	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0052	1		11/16/17 09:48	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0052	1		11/16/17 09:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0052	1		11/16/17 09:48	106-93-4	
Dibromomethane	ND	mg/kg	0.0052	1		11/16/17 09:48	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/16/17 09:48	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0052	1		11/16/17 09:48	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0052	1		11/16/17 09:48	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0052	1		11/16/17 09:48	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0052	1		11/16/17 09:48	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0052	1		11/16/17 09:48	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0052	1		11/16/17 09:48	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0052	1		11/16/17 09:48	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0052	1		11/16/17 09:48	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0052	1		11/16/17 09:48	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0052	1		11/16/17 09:48	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0052	1		11/16/17 09:48	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0052	1		11/16/17 09:48	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		11/16/17 09:48	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0052	1		11/16/17 09:48	87-68-3	
n-Hexane	ND	mg/kg	0.0052	1		11/16/17 09:48	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		11/16/17 09:48	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		11/16/17 09:48	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0052	1		11/16/17 09:48	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0052	1		11/16/17 09:48	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		11/16/17 09:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		11/16/17 09:48	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0052	1		11/16/17 09:48	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	103-65-1	
Styrene	ND	mg/kg	0.0052	1		11/16/17 09:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0052	1		11/16/17 09:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0052	1		11/16/17 09:48	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0052	1		11/16/17 09:48	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: DUP-SL1 Lab ID: 50184326016 Collected: 11/13/17 08:00 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.0052	1		11/16/17 09:48	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0052	1		11/16/17 09:48	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0052	1		11/16/17 09:48	79-00-5	
Trichloroethene	ND	mg/kg	0.0052	1		11/16/17 09:48	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0052	1		11/16/17 09:48	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0052	1		11/16/17 09:48	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0052	1		11/16/17 09:48	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		11/16/17 09:48	108-05-4	
Vinyl chloride	ND	mg/kg	0.0052	1		11/16/17 09:48	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		11/16/17 09:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%	69-136	1		11/16/17 09:48	1868-53-7	
Toluene-d8 (S)	100	%	64-150	1		11/16/17 09:48	2037-26-5	
4-Bromofluorobenzene (S)	98	%	51-142	1		11/16/17 09:48	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	19.8	%	0.10	1		11/14/17 15:41		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: DUP-SL2 Lab ID: 50184326017 Collected: 11/13/17 08:00 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.4	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:59	7440-38-2	
Barium	87.0	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:59	7440-39-3	
Cadmium	ND	mg/kg	0.62	1	11/16/17 06:13	11/19/17 13:59	7440-43-9	
Chromium	17.5	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:59	7440-47-3	
Lead	23.2	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:59	7439-92-1	
Selenium	2.7	mg/kg	1.2	1	11/16/17 06:13	11/19/17 13:59	7782-49-2	
Silver	ND	mg/kg	0.62	1	11/16/17 06:13	11/19/17 13:59	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.26	1	11/16/17 11:33	11/17/17 13:14	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	0.18	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	83-32-9	
Acenaphthylene	0.051	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	208-96-8	
Anthracene	0.32	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	120-12-7	
Benzo(a)anthracene	0.66	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	56-55-3	
Benzo(a)pyrene	0.33	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	50-32-8	
Benzo(b)fluoranthene	0.29	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	205-99-2	
Benzo(g,h,i)perylene	0.15	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	191-24-2	
Benzo(k)fluoranthene	0.39	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	207-08-9	
Chrysene	0.58	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	218-01-9	
Dibenz(a,h)anthracene	0.074	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	53-70-3	
Fluoranthene	2.0	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	206-44-0	
Fluorene	0.31	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	86-73-7	
Indeno(1,2,3-cd)pyrene	0.15	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	193-39-5	
1-Methylnaphthalene	3.9	mg/kg	0.033	5	11/14/17 22:55	11/16/17 17:03	90-12-0	N2
2-Methylnaphthalene	8.0	mg/kg	0.033	5	11/14/17 22:55	11/16/17 17:03	91-57-6	
Naphthalene	11.1	mg/kg	0.033	5	11/14/17 22:55	11/16/17 17:03	91-20-3	
Phenanthrene	1.6	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	85-01-8	
Pyrene	1.5	mg/kg	0.0067	1	11/14/17 22:55	11/15/17 23:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52	%	30-94	1	11/14/17 22:55	11/15/17 23:54	321-60-8	
p-Terphenyl-d14 (S)	56	%	27-102	1	11/14/17 22:55	11/15/17 23:54	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	11.8	100		11/16/17 10:22	67-64-1	
Acrolein	ND	mg/kg	11.8	100		11/16/17 10:22	107-02-8	
Acrylonitrile	ND	mg/kg	11.8	100		11/16/17 10:22	107-13-1	
Benzene	0.34J	mg/kg	0.59	100		11/16/17 10:22	71-43-2	D4,J
Bromobenzene	ND	mg/kg	0.59	100		11/16/17 10:22	108-86-1	
Bromochloromethane	ND	mg/kg	0.59	100		11/16/17 10:22	74-97-5	
Bromodichloromethane	ND	mg/kg	0.59	100		11/16/17 10:22	75-27-4	
Bromoform	ND	mg/kg	0.59	100		11/16/17 10:22	75-25-2	
Bromomethane	ND	mg/kg	0.59	100		11/16/17 10:22	74-83-9	
2-Butanone (MEK)	ND	mg/kg	3.0	100		11/16/17 10:22	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: DUP-SL2 Lab ID: 50184326017 Collected: 11/13/17 08:00 Received: 11/14/17 13:25 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	10.5	mg/kg	0.59	100		11/16/17 10:22	104-51-8	
sec-Butylbenzene	2.6	mg/kg	0.59	100		11/16/17 10:22	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.59	100		11/16/17 10:22	98-06-6	
Carbon disulfide	ND	mg/kg	1.2	100		11/16/17 10:22	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.59	100		11/16/17 10:22	56-23-5	
Chlorobenzene	ND	mg/kg	0.59	100		11/16/17 10:22	108-90-7	
Chloroethane	ND	mg/kg	0.59	100		11/16/17 10:22	75-00-3	
Chloroform	ND	mg/kg	0.59	100		11/16/17 10:22	67-66-3	
Chloromethane	ND	mg/kg	0.59	100		11/16/17 10:22	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.59	100		11/16/17 10:22	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.59	100		11/16/17 10:22	106-43-4	
Dibromochloromethane	ND	mg/kg	0.59	100		11/16/17 10:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.59	100		11/16/17 10:22	106-93-4	
Dibromomethane	ND	mg/kg	0.59	100		11/16/17 10:22	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.59	100		11/16/17 10:22	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.59	100		11/16/17 10:22	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.59	100		11/16/17 10:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	11.8	100		11/16/17 10:22	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.59	100		11/16/17 10:22	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.59	100		11/16/17 10:22	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.59	100		11/16/17 10:22	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.59	100		11/16/17 10:22	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.59	100		11/16/17 10:22	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.59	100		11/16/17 10:22	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.59	100		11/16/17 10:22	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.59	100		11/16/17 10:22	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.59	100		11/16/17 10:22	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.59	100		11/16/17 10:22	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.59	100		11/16/17 10:22	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.59	100		11/16/17 10:22	10061-02-6	
Ethylbenzene	17.5	mg/kg	0.59	100		11/16/17 10:22	100-41-4	
Ethyl methacrylate	ND	mg/kg	11.8	100		11/16/17 10:22	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.59	100		11/16/17 10:22	87-68-3	
n-Hexane	10.1	mg/kg	0.59	100		11/16/17 10:22	110-54-3	
2-Hexanone	ND	mg/kg	11.8	100		11/16/17 10:22	591-78-6	
Iodomethane	ND	mg/kg	11.8	100		11/16/17 10:22	74-88-4	
Isopropylbenzene (Cumene)	5.6	mg/kg	0.59	100		11/16/17 10:22	98-82-8	
p-Isopropyltoluene	2.1	mg/kg	0.59	100		11/16/17 10:22	99-87-6	
Methylene Chloride	ND	mg/kg	2.4	100		11/16/17 10:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	3.0	100		11/16/17 10:22	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.59	100		11/16/17 10:22	1634-04-4	2d
n-Propylbenzene	17.9	mg/kg	0.59	100		11/16/17 10:22	103-65-1	
Styrene	ND	mg/kg	0.59	100		11/16/17 10:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.59	100		11/16/17 10:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.59	100		11/16/17 10:22	79-34-5	
Tetrachloroethene	ND	mg/kg	0.59	100		11/16/17 10:22	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: DUP-SL2 Lab ID: 50184326017 Collected: 11/13/17 08:00 Received: 11/14/17 13:25 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						
Toluene	ND	mg/kg	0.59	100		11/16/17 10:22	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.59	100		11/16/17 10:22	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.59	100		11/16/17 10:22	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.59	100		11/16/17 10:22	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.59	100		11/16/17 10:22	79-00-5	
Trichloroethene	ND	mg/kg	0.59	100		11/16/17 10:22	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.59	100		11/16/17 10:22	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.59	100		11/16/17 10:22	96-18-4	
1,2,4-Trimethylbenzene	107	mg/kg	5.9	1000		11/16/17 19:14	95-63-6	
1,3,5-Trimethylbenzene	51.3	mg/kg	5.9	1000		11/16/17 19:14	108-67-8	
Vinyl acetate	ND	mg/kg	11.8	100		11/16/17 10:22	108-05-4	
Vinyl chloride	ND	mg/kg	0.59	100		11/16/17 10:22	75-01-4	
Xylene (Total)	21.1	mg/kg	1.2	100		11/16/17 10:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	69-136	100		11/16/17 10:22	1868-53-7	
Toluene-d8 (S)	105	%	64-150	100		11/16/17 10:22	2037-26-5	
4-Bromofluorobenzene (S)	110	%	51-142	100		11/16/17 10:22	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	26.3	%	0.10	1		11/14/17 15:42		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: TB-1 Lab ID: 50184326018 Collected: 11/13/17 08:00 Received: 11/14/17 13:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	mg/kg	0.10	1		11/16/17 10:55	67-64-1	
Acrolein	ND	mg/kg	0.10	1		11/16/17 10:55	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		11/16/17 10:55	107-13-1	
Benzene	ND	mg/kg	0.0050	1		11/16/17 10:55	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		11/16/17 10:55	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		11/16/17 10:55	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		11/16/17 10:55	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		11/16/17 10:55	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/16/17 10:55	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		11/16/17 10:55	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		11/16/17 10:55	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		11/16/17 10:55	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		11/16/17 10:55	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		11/16/17 10:55	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		11/16/17 10:55	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		11/16/17 10:55	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		11/16/17 10:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		11/16/17 10:55	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		11/16/17 10:55	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/16/17 10:55	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		11/16/17 10:55	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		11/16/17 10:55	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		11/16/17 10:55	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		11/16/17 10:55	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/16/17 10:55	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/16/17 10:55	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		11/16/17 10:55	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		11/16/17 10:55	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		11/16/17 10:55	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		11/16/17 10:55	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/16/17 10:55	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/16/17 10:55	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		11/16/17 10:55	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		11/16/17 10:55	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		11/16/17 10:55	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		11/16/17 10:55	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		11/16/17 10:55	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Sample: TB-1 Lab ID: 50184326018 Collected: 11/13/17 08:00 Received: 11/14/17 13:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		11/16/17 10:55	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		11/16/17 10:55	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/16/17 10:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/16/17 10:55	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		11/16/17 10:55	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	103-65-1	
Styrene	ND	mg/kg	0.0050	1		11/16/17 10:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/16/17 10:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/16/17 10:55	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		11/16/17 10:55	127-18-4	
Toluene	ND	mg/kg	0.0050	1		11/16/17 10:55	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		11/16/17 10:55	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		11/16/17 10:55	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		11/16/17 10:55	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		11/16/17 10:55	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		11/16/17 10:55	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		11/16/17 10:55	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		11/16/17 10:55	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		11/16/17 10:55	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		11/16/17 10:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	69-136	1		11/16/17 10:55	1868-53-7	
Toluene-d8 (S)	93	%.	64-150	1		11/16/17 10:55	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	51-142	1		11/16/17 10:55	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site
Pace Project No.: 50184326

QC Batch:	415391	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	50184326001, 50184326002, 50184326003, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008, 50184326009, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017		

METHOD BLANK:	1912619	Matrix:	Solid
Associated Lab Samples:	50184326001, 50184326002, 50184326003, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008, 50184326009, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	11/17/17 12:06	

LABORATORY CONTROL SAMPLE: 1912620						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.54	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
1912621					1912622							
		50184326001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	mg/kg	ND	.63	.59	0.74	0.72	101	104	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:				1912623		1912624						
Parameter	Units	50184326003	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.								Result
Mercury	mg/kg	0.34	.64	.63	0.74	0.82	63	76	75-125	11	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

QC Batch:	415147	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	50184326001, 50184326002, 50184326003, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008, 50184326009, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017		

METHOD BLANK: 1911709

Matrix: Solid

Associated Lab Samples: 50184326001, 50184326002, 50184326003, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008, 50184326009, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	11/19/17 12:59	
Barium	mg/kg	ND	1.0	11/19/17 12:59	
Cadmium	mg/kg	ND	0.50	11/19/17 12:59	
Chromium	mg/kg	ND	1.0	11/19/17 12:59	
Lead	mg/kg	ND	1.0	11/19/17 12:59	
Selenium	mg/kg	ND	1.0	11/19/17 12:59	
Silver	mg/kg	ND	0.50	11/19/17 12:59	

LABORATORY CONTROL SAMPLE: 1911710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	53.2	106	80-120	
Barium	mg/kg	50	52.6	105	80-120	
Cadmium	mg/kg	50	51.4	103	80-120	
Chromium	mg/kg	50	52.0	104	80-120	
Lead	mg/kg	50	50.2	100	80-120	
Selenium	mg/kg	50	53.1	106	80-120	
Silver	mg/kg	25	26.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911711 1911712

Parameter	Units	50184326003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Arsenic	mg/kg	7.5	52.7	54.6	58.2	60.1	96	96	75-125	3	20
Barium	mg/kg	101	52.7	54.6	162	184	116	152	75-125	13	20 M0
Cadmium	mg/kg	3.4	52.7	54.6	51.1	54.3	90	93	75-125	6	20
Chromium	mg/kg	41.2	52.7	54.6	82.8	96.2	79	101	75-125	15	20
Lead	mg/kg	148	52.7	54.6	160	186	23	69	75-125	15	20 M3
Selenium	mg/kg	2.0	52.7	54.6	51.0	53.5	93	94	75-125	5	20
Silver	mg/kg	0.92	26.3	27.4	26.1	27.7	96	98	75-125	6	20

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1912410 1912411												
Parameter	Units	50184326001		MS		MSD		MS		MSD		Max
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec	% Rec	RPD	RPD
Arsenic	mg/kg	9.0	53	57.1	59.3	62.9	95	94	75-125	6	20	
Barium	mg/kg	78.7	53	57.1	132	134	101	97	75-125	1	20	
Cadmium	mg/kg	0.89	53	57.1	49.7	54.2	92	93	75-125	9	20	
Chromium	mg/kg	16.6	53	57.1	61.7	72.0	85	97	75-125	15	20	
Lead	mg/kg	67.3	53	57.1	136	118	129	88	75-125	14	20	M0
Selenium	mg/kg	2.3	53	57.1	50.3	55.3	91	93	75-125	9	20	
Silver	mg/kg	ND	26.6	28.6	25.9	27.6	97	96	75-125	7	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

QC Batch:	415412	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	50184326001, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008, 50184326009		

METHOD BLANK:	1912684	Matrix:	Solid
Associated Lab Samples:	50184326001, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008, 50184326009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/15/17 15:23	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/15/17 15:23	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/15/17 15:23	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/15/17 15:23	
1,1-Dichloroethane	mg/kg	ND	0.0050	11/15/17 15:23	
1,1-Dichloroethene	mg/kg	ND	0.0050	11/15/17 15:23	
1,1-Dichloropropene	mg/kg	ND	0.0050	11/15/17 15:23	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/15/17 15:23	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/15/17 15:23	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/15/17 15:23	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/15/17 15:23	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/15/17 15:23	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/15/17 15:23	
1,2-Dichloroethane	mg/kg	ND	0.0050	11/15/17 15:23	
1,2-Dichloropropane	mg/kg	ND	0.0050	11/15/17 15:23	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/15/17 15:23	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/15/17 15:23	
1,3-Dichloropropane	mg/kg	ND	0.0050	11/15/17 15:23	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/15/17 15:23	
2,2-Dichloropropane	mg/kg	ND	0.0050	11/15/17 15:23	
2-Butanone (MEK)	mg/kg	ND	0.025	11/15/17 15:23	
2-Chlorotoluene	mg/kg	ND	0.0050	11/15/17 15:23	
2-Hexanone	mg/kg	ND	0.10	11/15/17 15:23	
4-Chlorotoluene	mg/kg	ND	0.0050	11/15/17 15:23	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/15/17 15:23	
Acetone	mg/kg	ND	0.10	11/15/17 15:23	
Acrolein	mg/kg	ND	0.10	11/15/17 15:23	
Acrylonitrile	mg/kg	ND	0.10	11/15/17 15:23	
Benzene	mg/kg	ND	0.0050	11/15/17 15:23	
Bromobenzene	mg/kg	ND	0.0050	11/15/17 15:23	
Bromochloromethane	mg/kg	ND	0.0050	11/15/17 15:23	
Bromodichloromethane	mg/kg	ND	0.0050	11/15/17 15:23	
Bromoform	mg/kg	ND	0.0050	11/15/17 15:23	
Bromomethane	mg/kg	ND	0.0050	11/15/17 15:23	
Carbon disulfide	mg/kg	ND	0.010	11/15/17 15:23	
Carbon tetrachloride	mg/kg	ND	0.0050	11/15/17 15:23	
Chlorobenzene	mg/kg	ND	0.0050	11/15/17 15:23	
Chloroethane	mg/kg	ND	0.0050	11/15/17 15:23	
Chloroform	mg/kg	ND	0.0050	11/15/17 15:23	
Chloromethane	mg/kg	ND	0.0050	11/15/17 15:23	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/15/17 15:23	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

METHOD BLANK: 1912684

Matrix: Solid

Associated Lab Samples: 50184326001, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008, 50184326009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/15/17 15:23	
Dibromochloromethane	mg/kg	ND	0.0050	11/15/17 15:23	
Dibromomethane	mg/kg	ND	0.0050	11/15/17 15:23	
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/15/17 15:23	
Ethyl methacrylate	mg/kg	ND	0.10	11/15/17 15:23	
Ethylbenzene	mg/kg	ND	0.0050	11/15/17 15:23	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/15/17 15:23	
Iodomethane	mg/kg	ND	0.10	11/15/17 15:23	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/15/17 15:23	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/15/17 15:23	
Methylene Chloride	mg/kg	0.023	0.020	11/15/17 15:23	
n-Butylbenzene	mg/kg	ND	0.0050	11/15/17 15:23	
n-Hexane	mg/kg	ND	0.0050	11/15/17 15:23	
n-Propylbenzene	mg/kg	ND	0.0050	11/15/17 15:23	
p-Isopropyltoluene	mg/kg	ND	0.0050	11/15/17 15:23	
sec-Butylbenzene	mg/kg	ND	0.0050	11/15/17 15:23	
Styrene	mg/kg	ND	0.0050	11/15/17 15:23	
tert-Butylbenzene	mg/kg	ND	0.0050	11/15/17 15:23	
Tetrachloroethene	mg/kg	ND	0.0050	11/15/17 15:23	
Toluene	mg/kg	ND	0.0050	11/15/17 15:23	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/15/17 15:23	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/15/17 15:23	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/15/17 15:23	
Trichloroethene	mg/kg	ND	0.0050	11/15/17 15:23	
Trichlorofluoromethane	mg/kg	ND	0.0050	11/15/17 15:23	
Vinyl acetate	mg/kg	ND	0.10	11/15/17 15:23	
Vinyl chloride	mg/kg	ND	0.0050	11/15/17 15:23	
Xylene (Total)	mg/kg	ND	0.010	11/15/17 15:23	
4-Bromofluorobenzene (S)	%	107	51-142	11/15/17 15:23	
Dibromofluoromethane (S)	%	107	69-136	11/15/17 15:23	
Toluene-d8 (S)	%	97	64-150	11/15/17 15:23	

LABORATORY CONTROL SAMPLE: 1912685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.052	103	72-126	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	97	68-125	
1,1-Dichloroethene	mg/kg	.05	0.055	110	70-132	
1,2,4-Trimethylbenzene	mg/kg	.05	0.048	96	70-118	
1,2-Dichloropropane	mg/kg	.05	0.052	103	76-122	
Benzene	mg/kg	.05	0.051	101	75-119	
Chlorobenzene	mg/kg	.05	0.050	100	75-114	
Chloroform	mg/kg	.05	0.050	100	71-114	
cis-1,2-Dichloroethene	mg/kg	.05	0.052	103	79-121	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

LABORATORY CONTROL SAMPLE: 1912685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	mg/kg	.05	0.050	100	73-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.051	102	72-122	
Methyl-tert-butyl ether	mg/kg	.05	0.050	101	74-121	
Tetrachloroethene	mg/kg	.05	0.051	102	68-120	
Toluene	mg/kg	.05	0.051	102	71-114	
trans-1,2-Dichloroethene	mg/kg	.05	0.051	102	76-125	
Trichloroethene	mg/kg	.05	0.052	104	77-115	
Vinyl chloride	mg/kg	.05	0.052	105	66-139	
Xylene (Total)	mg/kg	.15	0.15	100	71-119	
4-Bromofluorobenzene (S)	%			105	51-142	
Dibromofluoromethane (S)	%			99	69-136	
Toluene-d8 (S)	%			102	64-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913152 1913153

Parameter	Units	50184326001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	ND	.052	.058	0.058	0.063	113	107	31-146	8	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.052	.058	0.057	0.054	111	93	22-171	5	20	
1,1-Dichloroethene	mg/kg	ND	.052	.058	0.062	0.070	121	119	53-154	11	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.052	.058	0.048	0.046	93	79	10-162	4	20	
1,2-Dichloropropane	mg/kg	ND	.052	.058	0.059	0.064	116	110	49-140	8	20	
Benzene	mg/kg	ND	.052	.058	0.058	0.063	114	107	43-141	7	20	
Chlorobenzene	mg/kg	ND	.052	.058	0.051	0.051	99	88	20-141	1	20	
Chloroform	mg/kg	ND	.052	.058	0.057	0.062	111	106	49-134	8	20	
cis-1,2-Dichloroethene	mg/kg	ND	.052	.058	0.059	0.064	115	110	50-144	8	20	
Ethylbenzene	mg/kg	ND	.052	.058	0.052	0.054	102	93	21-149	3	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.052	.058	0.049	0.053	96	90	15-152	6	20	
Methyl-tert-butyl ether	mg/kg	ND	.052	.058	0.062	0.067	121	114	60-141	8	20	
Tetrachloroethene	mg/kg	ND	.052	.058	0.051	0.054	100	92	21-155	5	20	
Toluene	mg/kg	ND	.052	.058	0.056	0.058	110	100	30-146	4	20	
trans-1,2-Dichloroethene	mg/kg	ND	.052	.058	0.058	0.062	113	106	50-146	7	20	
Trichloroethene	mg/kg	ND	.052	.058	0.057	0.060	111	103	25-162	6	20	
Vinyl chloride	mg/kg	ND	.052	.058	0.060	0.066	116	114	51-160	11	20	
Xylene (Total)	mg/kg	ND	.15	.18	0.15	0.16	99	91	15-151	4	20	
4-Bromofluorobenzene (S)	%						99	99	51-142			
Dibromofluoromethane (S)	%						100	98	69-136			
Toluene-d8 (S)	%						103	101	64-150			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

QC Batch:	415482	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	50184326003, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017, 50184326018		

METHOD BLANK:	1913154	Matrix:	Solid
Associated Lab Samples:	50184326003, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017, 50184326018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/16/17 03:39	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/16/17 03:39	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/16/17 03:39	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/16/17 03:39	
1,1-Dichloroethane	mg/kg	ND	0.0050	11/16/17 03:39	
1,1-Dichloroethene	mg/kg	ND	0.0050	11/16/17 03:39	
1,1-Dichloropropene	mg/kg	ND	0.0050	11/16/17 03:39	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/16/17 03:39	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/16/17 03:39	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/16/17 03:39	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/16/17 03:39	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/16/17 03:39	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/16/17 03:39	
1,2-Dichloroethane	mg/kg	ND	0.0050	11/16/17 03:39	
1,2-Dichloropropane	mg/kg	ND	0.0050	11/16/17 03:39	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/16/17 03:39	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/16/17 03:39	
1,3-Dichloropropane	mg/kg	ND	0.0050	11/16/17 03:39	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/16/17 03:39	
2,2-Dichloropropane	mg/kg	ND	0.0050	11/16/17 03:39	
2-Butanone (MEK)	mg/kg	ND	0.025	11/16/17 03:39	
2-Chlorotoluene	mg/kg	ND	0.0050	11/16/17 03:39	
2-Hexanone	mg/kg	ND	0.10	11/16/17 03:39	
4-Chlorotoluene	mg/kg	ND	0.0050	11/16/17 03:39	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/16/17 03:39	
Acetone	mg/kg	ND	0.10	11/16/17 03:39	
Acrolein	mg/kg	ND	0.10	11/16/17 03:39	
Acrylonitrile	mg/kg	ND	0.10	11/16/17 03:39	
Benzene	mg/kg	ND	0.0050	11/16/17 03:39	
Bromobenzene	mg/kg	ND	0.0050	11/16/17 03:39	
Bromochloromethane	mg/kg	ND	0.0050	11/16/17 03:39	
Bromodichloromethane	mg/kg	ND	0.0050	11/16/17 03:39	
Bromoform	mg/kg	ND	0.0050	11/16/17 03:39	
Bromomethane	mg/kg	ND	0.0050	11/16/17 03:39	
Carbon disulfide	mg/kg	ND	0.010	11/16/17 03:39	
Carbon tetrachloride	mg/kg	ND	0.0050	11/16/17 03:39	
Chlorobenzene	mg/kg	ND	0.0050	11/16/17 03:39	
Chloroethane	mg/kg	ND	0.0050	11/16/17 03:39	
Chloroform	mg/kg	ND	0.0050	11/16/17 03:39	
Chloromethane	mg/kg	ND	0.0050	11/16/17 03:39	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

METHOD BLANK: 1913154

Matrix: Solid

Associated Lab Samples: 50184326003, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017, 50184326018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/16/17 03:39	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/16/17 03:39	
Dibromochloromethane	mg/kg	ND	0.0050	11/16/17 03:39	
Dibromomethane	mg/kg	ND	0.0050	11/16/17 03:39	
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/16/17 03:39	
Ethyl methacrylate	mg/kg	ND	0.10	11/16/17 03:39	
Ethylbenzene	mg/kg	ND	0.0050	11/16/17 03:39	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/16/17 03:39	
Iodomethane	mg/kg	ND	0.10	11/16/17 03:39	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/16/17 03:39	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/16/17 03:39	
Methylene Chloride	mg/kg	0.023	0.020	11/16/17 03:39	
n-Butylbenzene	mg/kg	ND	0.0050	11/16/17 03:39	
n-Hexane	mg/kg	ND	0.0050	11/16/17 03:39	
n-Propylbenzene	mg/kg	ND	0.0050	11/16/17 03:39	
p-Isopropyltoluene	mg/kg	ND	0.0050	11/16/17 03:39	
sec-Butylbenzene	mg/kg	ND	0.0050	11/16/17 03:39	
Styrene	mg/kg	ND	0.0050	11/16/17 03:39	
tert-Butylbenzene	mg/kg	ND	0.0050	11/16/17 03:39	
Tetrachloroethene	mg/kg	ND	0.0050	11/16/17 03:39	
Toluene	mg/kg	ND	0.0050	11/16/17 03:39	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/16/17 03:39	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/16/17 03:39	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/16/17 03:39	
Trichloroethene	mg/kg	ND	0.0050	11/16/17 03:39	
Trichlorofluoromethane	mg/kg	ND	0.0050	11/16/17 03:39	
Vinyl acetate	mg/kg	ND	0.10	11/16/17 03:39	
Vinyl chloride	mg/kg	ND	0.0050	11/16/17 03:39	
Xylene (Total)	mg/kg	ND	0.010	11/16/17 03:39	
4-Bromofluorobenzene (S)	%	106	51-142	11/16/17 03:39	
Dibromofluoromethane (S)	%	107	69-136	11/16/17 03:39	
Toluene-d8 (S)	%	96	64-150	11/16/17 03:39	

LABORATORY CONTROL SAMPLE: 1913155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.051	102	72-126	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	97	68-125	
1,1-Dichloroethene	mg/kg	.05	0.056	111	70-132	
1,2,4-Trimethylbenzene	mg/kg	.05	0.046	92	70-118	
1,2-Dichloropropane	mg/kg	.05	0.054	109	76-122	
Benzene	mg/kg	.05	0.052	103	75-119	
Chlorobenzene	mg/kg	.05	0.050	100	75-114	

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QUALITY CONTROL DATA

Pace Project No.: 50184326

LABORATORY CONTROL SAMPLE: 1913155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	mg/kg	.05	0.050	101	71-114	
cis-1,2-Dichloroethene	mg/kg	.05	0.053	105	79-121	
Ethylbenzene	mg/kg	.05	0.051	101	73-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.051	102	72-122	
Methyl-tert-butyl ether	mg/kg	.05	0.052	104	74-121	
Tetrachloroethene	mg/kg	.05	0.049	99	68-120	
Toluene	mg/kg	.05	0.051	103	71-114	
trans-1,2-Dichloroethene	mg/kg	.05	0.051	102	76-125	
Trichloroethene	mg/kg	.05	0.051	103	77-115	
Vinyl chloride	mg/kg	.05	0.051	102	66-139	
Xylene (Total)	mg/kg	.15	0.15	100	71-119	
4-Bromofluorobenzene (S)	%			104	51-142	
Dibromofluoromethane (S)	%			96	69-136	
Toluene-d8 (S)	%			99	64-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1913156	1913157

Parameter	Units	50184326003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
			Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	mg/kg	ND	.062	.066	0.062	0.060	101	92	31-146	3	20	R1
1,1,2,2-Tetrachloroethane	mg/kg	ND	.062	.066	0.052	0.041	85	62	22-171	24	20	
1,1-Dichloroethene	mg/kg	ND	.062	.066	0.073	0.069	118	105	53-154	5	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.062	.066	0.037	0.030	60	46	10-162	20	20	
1,2-Dichloropropane	mg/kg	ND	.062	.066	0.062	0.059	100	89	49-140	5	20	
Benzene	mg/kg	ND	.062	.066	0.059	0.058	96	89	43-141	1	20	
Chlorobenzene	mg/kg	ND	.062	.066	0.043	0.039	70	60	20-141	9	20	
Chloroform	mg/kg	ND	.062	.066	0.062	0.059	101	90	49-134	5	20	
cis-1,2-Dichloroethene	mg/kg	ND	.062	.066	0.063	0.061	102	93	50-144	3	20	
Ethylbenzene	mg/kg	ND	.062	.066	0.044	0.044	71	67	21-149	1	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.062	.066	0.039	0.037	63	57	15-152	4	20	
Methyl-tert-butyl ether	mg/kg	ND	.062	.066	0.069	0.067	111	103	60-141	2	20	
Tetrachloroethene	mg/kg	ND	.062	.066	0.044	0.044	72	66	21-155	2	20	
Toluene	mg/kg	ND	.062	.066	0.052	0.051	85	78	30-146	2	20	
trans-1,2-Dichloroethene	mg/kg	ND	.062	.066	0.062	0.060	102	90	50-146	5	20	
Trichloroethene	mg/kg	ND	.062	.066	0.055	0.054	89	83	25-162	1	20	
Vinyl chloride	mg/kg	ND	.062	.066	0.072	0.070	117	106	51-160	3	20	
Xylene (Total)	mg/kg	ND	.19	.2	0.13	0.13	70	64	15-151	2	20	
4-Bromofluorobenzene (S)	%						97	99	51-142			
Dibromofluoromethane (S)	%						101	101	69-136			
Toluene-d8 (S)	%						102	102	64-150			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

QC Batch: 415745

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 50184326002

METHOD BLANK: 1914671

Matrix: Solid

Associated Lab Samples: 50184326002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/16/17 15:50	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/16/17 15:50	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/16/17 15:50	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/16/17 15:50	
1,1-Dichloroethane	mg/kg	ND	0.0050	11/16/17 15:50	
1,1-Dichloroethene	mg/kg	ND	0.0050	11/16/17 15:50	
1,1-Dichloropropene	mg/kg	ND	0.0050	11/16/17 15:50	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/16/17 15:50	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/16/17 15:50	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/16/17 15:50	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/16/17 15:50	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/16/17 15:50	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/16/17 15:50	
1,2-Dichloroethane	mg/kg	ND	0.0050	11/16/17 15:50	
1,2-Dichloropropane	mg/kg	ND	0.0050	11/16/17 15:50	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/16/17 15:50	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/16/17 15:50	
1,3-Dichloropropane	mg/kg	ND	0.0050	11/16/17 15:50	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/16/17 15:50	
2,2-Dichloropropane	mg/kg	ND	0.0050	11/16/17 15:50	
2-Butanone (MEK)	mg/kg	ND	0.025	11/16/17 15:50	
2-Chlorotoluene	mg/kg	ND	0.0050	11/16/17 15:50	
2-Hexanone	mg/kg	ND	0.10	11/16/17 15:50	
4-Chlorotoluene	mg/kg	ND	0.0050	11/16/17 15:50	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/16/17 15:50	
Acetone	mg/kg	ND	0.10	11/16/17 15:50	
Acrolein	mg/kg	ND	0.10	11/16/17 15:50	
Acrylonitrile	mg/kg	ND	0.10	11/16/17 15:50	
Benzene	mg/kg	ND	0.0050	11/16/17 15:50	
Bromobenzene	mg/kg	ND	0.0050	11/16/17 15:50	
Bromochloromethane	mg/kg	ND	0.0050	11/16/17 15:50	
Bromodichloromethane	mg/kg	ND	0.0050	11/16/17 15:50	
Bromoform	mg/kg	ND	0.0050	11/16/17 15:50	
Bromomethane	mg/kg	ND	0.0050	11/16/17 15:50	
Carbon disulfide	mg/kg	ND	0.010	11/16/17 15:50	
Carbon tetrachloride	mg/kg	ND	0.0050	11/16/17 15:50	
Chlorobenzene	mg/kg	ND	0.0050	11/16/17 15:50	
Chloroethane	mg/kg	ND	0.0050	11/16/17 15:50	
Chloroform	mg/kg	ND	0.0050	11/16/17 15:50	
Chloromethane	mg/kg	ND	0.0050	11/16/17 15:50	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/16/17 15:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

METHOD BLANK: 1914671

Matrix: Solid

Associated Lab Samples: 50184326002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/16/17 15:50	
Dibromochloromethane	mg/kg	ND	0.0050	11/16/17 15:50	
Dibromomethane	mg/kg	ND	0.0050	11/16/17 15:50	
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/16/17 15:50	
Ethyl methacrylate	mg/kg	ND	0.10	11/16/17 15:50	
Ethylbenzene	mg/kg	ND	0.0050	11/16/17 15:50	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/16/17 15:50	
Iodomethane	mg/kg	ND	0.10	11/16/17 15:50	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/16/17 15:50	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/16/17 15:50	
Methylene Chloride	mg/kg	0.037	0.020	11/16/17 15:50	
n-Butylbenzene	mg/kg	ND	0.0050	11/16/17 15:50	
n-Hexane	mg/kg	ND	0.0050	11/16/17 15:50	
n-Propylbenzene	mg/kg	ND	0.0050	11/16/17 15:50	
p-Isopropyltoluene	mg/kg	ND	0.0050	11/16/17 15:50	
sec-Butylbenzene	mg/kg	ND	0.0050	11/16/17 15:50	
Styrene	mg/kg	ND	0.0050	11/16/17 15:50	
tert-Butylbenzene	mg/kg	ND	0.0050	11/16/17 15:50	
Tetrachloroethene	mg/kg	ND	0.0050	11/16/17 15:50	
Toluene	mg/kg	ND	0.0050	11/16/17 15:50	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/16/17 15:50	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/16/17 15:50	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/16/17 15:50	
Trichloroethene	mg/kg	ND	0.0050	11/16/17 15:50	
Trichlorofluoromethane	mg/kg	ND	0.0050	11/16/17 15:50	
Vinyl acetate	mg/kg	ND	0.10	11/16/17 15:50	
Vinyl chloride	mg/kg	ND	0.0050	11/16/17 15:50	
Xylene (Total)	mg/kg	ND	0.010	11/16/17 15:50	
4-Bromofluorobenzene (S)	%	103	51-142	11/16/17 15:50	
Dibromofluoromethane (S)	%	106	69-136	11/16/17 15:50	
Toluene-d8 (S)	%	97	64-150	11/16/17 15:50	

LABORATORY CONTROL SAMPLE: 1914672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.051	101	72-126	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.048	97	68-125	
1,1-Dichloroethene	mg/kg	.05	0.052	104	70-132	
1,2,4-Trimethylbenzene	mg/kg	.05	0.047	94	70-118	
1,2-Dichloropropane	mg/kg	.05	0.049	98	76-122	
Benzene	mg/kg	.05	0.050	100	75-119	
Chlorobenzene	mg/kg	.05	0.050	99	75-114	
Chloroform	mg/kg	.05	0.050	100	71-114	
cis-1,2-Dichloroethene	mg/kg	.05	0.049	98	79-121	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

LABORATORY CONTROL SAMPLE: 1914672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	mg/kg	.05	0.051	101	73-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.050	100	72-122	
Methyl-tert-butyl ether	mg/kg	.05	0.051	102	74-121	
Tetrachloroethene	mg/kg	.05	0.051	102	68-120	
Toluene	mg/kg	.05	0.050	101	71-114	
trans-1,2-Dichloroethene	mg/kg	.05	0.052	104	76-125	
Trichloroethene	mg/kg	.05	0.051	101	77-115	
Vinyl chloride	mg/kg	.05	0.051	101	66-139	
Xylene (Total)	mg/kg	.15	0.15	97	71-119	
4-Bromofluorobenzene (S)	%			100	51-142	
Dibromofluoromethane (S)	%			98	69-136	
Toluene-d8 (S)	%			101	64-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914673 1914674

Parameter	Units	50184383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	ND	.054	.054	0.063	0.061	114	112	31-146	3	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.054	.054	0.066	0.062	120	114	22-171	6	20	
1,1-Dichloroethene	mg/kg	ND	.054	.054	0.063	0.060	115	111	53-154	5	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.054	.054	0.055	0.051	100	93	10-162	9	20	
1,2-Dichloropropane	mg/kg	ND	.054	.054	0.060	0.058	110	106	49-140	4	20	
Benzene	mg/kg	ND	.054	.054	0.061	0.058	111	106	43-141	5	20	
Chlorobenzene	mg/kg	ND	.054	.054	0.058	0.055	106	101	20-141	5	20	
Chloroform	mg/kg	ND	.054	.054	0.061	0.058	111	107	49-134	5	20	
cis-1,2-Dichloroethene	mg/kg	ND	.054	.054	0.063	0.058	115	107	50-144	8	20	
Ethylbenzene	mg/kg	ND	.054	.054	0.059	0.057	108	105	21-149	4	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.054	.054	0.058	0.055	107	102	15-152	6	20	
Methyl-tert-butyl ether	mg/kg	ND	.054	.054	0.065	0.063	119	117	60-141	2	20	
Tetrachloroethene	mg/kg	ND	.054	.054	0.062	0.057	114	104	21-155	10	20	
Toluene	mg/kg	ND	.054	.054	0.062	0.059	112	107	30-146	5	20	
trans-1,2-Dichloroethene	mg/kg	ND	.054	.054	0.064	0.061	116	112	50-146	5	20	
Trichloroethene	mg/kg	ND	.054	.054	0.061	0.059	111	108	25-162	4	20	
Vinyl chloride	mg/kg	ND	.054	.054	0.061	0.059	112	108	51-160	4	20	
Xylene (Total)	mg/kg	ND	.16	.16	0.17	0.16	106	99	15-151	7	20	
4-Bromofluorobenzene (S)	%						100	102	51-142			
Dibromofluoromethane (S)	%						99	99	69-136			
Toluene-d8 (S)	%						101	101	64-150			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

QC Batch:	415193	Analysis Method:	EPA 8270 by SIM
QC Batch Method:	EPA 3546	Analysis Description:	8270 MSSV PAH by SIM
Associated Lab Samples:	50184326001, 50184326002, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008		

METHOD BLANK: 1911928

Matrix: Solid

Associated Lab Samples: 50184326001, 50184326002, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	11/15/17 11:32	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	11/15/17 11:32	
Acenaphthene	mg/kg	ND	0.0050	11/15/17 11:32	
Acenaphthylene	mg/kg	ND	0.0050	11/15/17 11:32	
Anthracene	mg/kg	ND	0.0050	11/15/17 11:32	
Benzo(a)anthracene	mg/kg	ND	0.0050	11/15/17 11:32	
Benzo(a)pyrene	mg/kg	ND	0.0050	11/15/17 11:32	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	11/15/17 11:32	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	11/15/17 11:32	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	11/15/17 11:32	
Chrysene	mg/kg	ND	0.0050	11/15/17 11:32	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	11/15/17 11:32	
Fluoranthene	mg/kg	ND	0.0050	11/15/17 11:32	
Fluorene	mg/kg	ND	0.0050	11/15/17 11:32	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	11/15/17 11:32	
Naphthalene	mg/kg	ND	0.0050	11/15/17 11:32	
Phenanthrene	mg/kg	ND	0.0050	11/15/17 11:32	
Pyrene	mg/kg	ND	0.0050	11/15/17 11:32	
2-Fluorobiphenyl (S)	%	60	30-94	11/15/17 11:32	
p-Terphenyl-d14 (S)	%	65	27-102	11/15/17 11:32	

LABORATORY CONTROL SAMPLE: 1911929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.18	54	38-105	N2
2-Methylnaphthalene	mg/kg	.33	0.18	54	38-104	
Acenaphthene	mg/kg	.33	0.19	56	39-108	
Acenaphthylene	mg/kg	.33	0.21	63	39-108	
Anthracene	mg/kg	.33	0.19	57	41-119	
Benzo(a)anthracene	mg/kg	.33	0.23	69	42-125	
Benzo(a)pyrene	mg/kg	.33	0.21	65	33-143	
Benzo(b)fluoranthene	mg/kg	.33	0.20	60	31-143	
Benzo(g,h,i)perylene	mg/kg	.33	0.19	57	34-138	
Benzo(k)fluoranthene	mg/kg	.33	0.20	60	32-140	
Chrysene	mg/kg	.33	0.21	63	44-121	
Dibenz(a,h)anthracene	mg/kg	.33	0.20	60	32-144	
Fluoranthene	mg/kg	.33	0.23	69	42-122	
Fluorene	mg/kg	.33	0.20	61	40-114	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.19	59	33-142	
Naphthalene	mg/kg	.33	0.17	52	37-101	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

LABORATORY CONTROL SAMPLE: 1911929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.19	59	40-116	
Pyrene	mg/kg	.33	0.19	58	43-121	
2-Fluorobiphenyl (S)	%.			50	30-94	
p-Terphenyl-d14 (S)	%.			59	27-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911930 1911931

Parameter	Units	50184326001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec				
1-Methylnaphthalene	mg/kg	ND	.42	.42	0.25	0.23	60	55	14-124	10	20	N2
2-Methylnaphthalene	mg/kg	ND	.42	.42	0.25	0.23	59	54	13-123	9	20	
Acenaphthene	mg/kg	ND	.42	.42	0.29	0.23	64	50	20-120	24	20	R1
Acenaphthylene	mg/kg	0.045	.42	.42	0.31	0.30	64	60	22-116	6	20	
Anthracene	mg/kg	0.090	.42	.42	0.35	0.27	61	44	19-128	24	20	R1
Benzo(a)anthracene	mg/kg	0.35	.42	.42	0.68	0.64	79	69	16-134	6	20	
Benzo(a)pyrene	mg/kg	0.34	.42	.42	0.63	0.63	69	68	10-148	1	20	
Benzo(b)fluoranthene	mg/kg	0.26	.42	.42	0.49	0.48	55	53	10-148	2	20	
Benzo(g,h,i)perylene	mg/kg	0.20	.42	.42	0.41	0.42	50	53	10-141	2	20	
Benzo(k)fluoranthene	mg/kg	0.33	.42	.42	0.63	0.62	71	69	10-146	2	20	
Chrysene	mg/kg	0.38	.42	.42	0.69	0.68	76	72	15-133	3	20	
Dibenz(a,h)anthracene	mg/kg	0.073	.42	.42	0.29	0.28	52	49	10-142	5	20	
Fluoranthene	mg/kg	0.76	.42	.42	1.3	1.1	124	88	13-135	13	20	
Fluorene	mg/kg	ND	.42	.42	0.29	0.25	62	52	21-125	16	20	
Indeno(1,2,3-cd)pyrene	mg/kg	0.18	.42	.42	0.40	0.40	52	51	10-143	1	20	
Naphthalene	mg/kg	ND	.42	.42	0.25	0.24	60	57	12-123	6	20	ED
Phenanthrene	mg/kg	0.39	.42	.42	0.83	0.62	105	53	13-133	30	20	R1
Pyrene	mg/kg	0.56	.42	.42	0.95	0.88	95	76	11-137	8	20	
2-Fluorobiphenyl (S)	%.						57	47	30-94			
p-Terphenyl-d14 (S)	%.						53	42	27-102			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

QC Batch:	415194	Analysis Method:	EPA 8270 by SIM
QC Batch Method:	EPA 3546	Analysis Description:	8270 MSSV PAH by SIM
Associated Lab Samples:	50184326003, 50184326009, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017		

METHOD BLANK: 1911932

Matrix: Solid

Associated Lab Samples: 50184326003, 50184326009, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	11/15/17 20:36	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	11/15/17 20:36	
Acenaphthene	mg/kg	ND	0.0050	11/15/17 20:36	
Acenaphthylene	mg/kg	ND	0.0050	11/15/17 20:36	
Anthracene	mg/kg	ND	0.0050	11/15/17 20:36	
Benzo(a)anthracene	mg/kg	ND	0.0050	11/15/17 20:36	
Benzo(a)pyrene	mg/kg	ND	0.0050	11/15/17 20:36	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	11/15/17 20:36	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	11/15/17 20:36	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	11/15/17 20:36	
Chrysene	mg/kg	ND	0.0050	11/15/17 20:36	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	11/15/17 20:36	
Fluoranthene	mg/kg	ND	0.0050	11/15/17 20:36	
Fluorene	mg/kg	ND	0.0050	11/15/17 20:36	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	11/15/17 20:36	
Naphthalene	mg/kg	ND	0.0050	11/15/17 20:36	
Phenanthrene	mg/kg	ND	0.0050	11/15/17 20:36	
Pyrene	mg/kg	ND	0.0050	11/15/17 20:36	
2-Fluorobiphenyl (S)	%	57	30-94	11/15/17 20:36	
p-Terphenyl-d14 (S)	%	65	27-102	11/15/17 20:36	

LABORATORY CONTROL SAMPLE: 1911933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.17	53	38-105	N2
2-Methylnaphthalene	mg/kg	.33	0.17	53	38-104	
Acenaphthene	mg/kg	.33	0.18	53	39-108	
Acenaphthylene	mg/kg	.33	0.20	60	39-108	
Anthracene	mg/kg	.33	0.17	52	41-119	
Benzo(a)anthracene	mg/kg	.33	0.20	61	42-125	
Benzo(a)pyrene	mg/kg	.33	0.19	58	33-143	
Benzo(b)fluoranthene	mg/kg	.33	0.19	58	31-143	
Benzo(g,h,i)perylene	mg/kg	.33	0.17	52	34-138	
Benzo(k)fluoranthene	mg/kg	.33	0.17	51	32-140	
Chrysene	mg/kg	.33	0.19	58	44-121	
Dibenz(a,h)anthracene	mg/kg	.33	0.18	54	32-144	
Fluoranthene	mg/kg	.33	0.20	62	42-122	
Fluorene	mg/kg	.33	0.19	57	40-114	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

LABORATORY CONTROL SAMPLE: 1911933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.18	53	33-142	
Naphthalene	mg/kg	.33	0.17	51	37-101	
Phenanthrene	mg/kg	.33	0.18	55	40-116	
Pyrene	mg/kg	.33	0.18	54	43-121	
2-Fluorobiphenyl (S)	%			51	30-94	
p-Terphenyl-d14 (S)	%			58	27-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911934 1911935

Parameter	Units	50184326003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	ND	.42	.42	0.18	0.16	42	37	14-124	12	20	N2
2-Methylnaphthalene	mg/kg	ND	.42	.42	0.18	0.15	42	37	13-123	14	20	
Acenaphthene	mg/kg	ND	.42	.42	0.18	0.19	42	46	20-120	9	20	
Acenaphthylene	mg/kg	ND	.42	.42	0.21	0.18	44	39	22-116	12	20	
Anthracene	mg/kg	ND	.42	.42	0.18	0.24	30	42	19-128	26	20	R1
Benzo(a)anthracene	mg/kg	0.22	.42	.42	0.32	0.42	24	48	16-134	27	20	R1
Benzo(a)pyrene	mg/kg	0.24	.42	.42	0.30	0.35	15	28	10-148	16	20	
Benzo(b)fluoranthene	mg/kg	0.20	.42	.42	0.26	0.30	13	24	10-148	16	20	
Benzo(g,h,i)perylene	mg/kg	0.16	.42	.42	0.24	0.25	19	21	10-141	2	20	
Benzo(k)fluoranthene	mg/kg	0.21	.42	.42	0.29	0.34	21	33	10-146	15	20	
Chrysene	mg/kg	0.25	.42	.42	0.34	0.43	21	42	15-133	23	20	R1
Dibenz(a,h)anthracene	mg/kg	ND	.42	.42	0.17	0.18	26	27	10-142	2	20	
Fluoranthene	mg/kg	0.44	.42	.42	0.51	0.78	16	82	13-135	43	20	R1
Fluorene	mg/kg	ND	.42	.42	0.18	0.19	43	45	21-125	5	20	
Indeno(1,2,3-cd)pyrene	mg/kg	0.14	.42	.42	0.22	0.23	19	22	10-143	5	20	
Naphthalene	mg/kg	ND	.42	.42	0.18	0.15	42	37	12-123	14	20	ED
Phenanthrene	mg/kg	0.22	.42	.42	0.32	0.56	23	82	13-133	56	20	R1
Pyrene	mg/kg	0.34	.42	.42	0.40	0.57	15	54	11-137	34	20	R1
2-Fluorobiphenyl (S)	%						39	33	30-94			
p-Terphenyl-d14 (S)	%						38	33	27-102			

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: Convention Center - Hotel Site

Pace Project No.: 50184326

QC Batch: 415158 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50184326001, 50184326002, 50184326003, 50184326004, 50184326005, 50184326006, 50184326007, 50184326008, 50184326009, 50184326010, 50184326011, 50184326013, 50184326014, 50184326015, 50184326016, 50184326017

SAMPLE DUPLICATE: 1911759

Parameter	Units	50184326001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.6	21.6	5	5	

SAMPLE DUPLICATE: 1911760

Parameter	Units	50184326003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	17.4	17	5	R1

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

QC Batch: 419986

Analysis Method: EPA 7196A

QC Batch Method: EPA 3060A

Analysis Description: 7196 Chromium, Hexavalent

Associated Lab Samples: 50184326003, 50184326010

METHOD BLANK: 1935573

Matrix: Solid

Associated Lab Samples: 50184326003, 50184326010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	2.0	12/14/17 17:22	

LABORATORY CONTROL SAMPLE: 1935574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	1010	966	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1935575 1935576

Parameter	Units	50184326003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	1260	1530	1030	1160	81	76	75-125	12	20	H3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1935577 1935578

Parameter	Units	50184326003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	50	49	20.1	16.3	40	33	75-125	21	20	H3,M3,R1

SAMPLE DUPLICATE: 1935579

Parameter	Units	50184497006 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

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.

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

1d	Benzene ND at an estimated RL of 0.034 mg/kg based on the MDL. grm 11-16-17
2d	MtBE ND at an estimated RL of 0.180 mg/kg based on the MDL. grm 11-16-17
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4	Sample was diluted due to the presence of high levels of target analytes.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
H3	Sample was received or analysis requested beyond the recognized method holding time.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184326001	SB01 (0-2)	EPA 3050	415147	EPA 6010	416089
50184326002	SB01 (10-12)	EPA 3050	415147	EPA 6010	416089
50184326003	SB02 (0-2)	EPA 3050	415147	EPA 6010	416089
50184326004	SB02 (16-18)	EPA 3050	415147	EPA 6010	416089
50184326005	SB03 (12-14)	EPA 3050	415147	EPA 6010	416089
50184326006	SB04 (0-2)	EPA 3050	415147	EPA 6010	416089
50184326007	SB04 (14-16)	EPA 3050	415147	EPA 6010	416089
50184326008	SB05 (0-2)	EPA 3050	415147	EPA 6010	416089
50184326009	SB05 (14-16)	EPA 3050	415147	EPA 6010	416089
50184326010	SB06 (0-2)	EPA 3050	415147	EPA 6010	416089
50184326011	SB06 (16-18)	EPA 3050	415147	EPA 6010	416089
50184326013	SB07 (14-16)	EPA 3050	415147	EPA 6010	416089
50184326014	SB08 (0-2)	EPA 3050	415147	EPA 6010	416089
50184326015	SB08 (12-14)	EPA 3050	415147	EPA 6010	416089
50184326016	DUP-SL1	EPA 3050	415147	EPA 6010	416089
50184326017	DUP-SL2	EPA 3050	415147	EPA 6010	416089
50184326001	SB01 (0-2)	EPA 7471	415391	EPA 7471	415808
50184326002	SB01 (10-12)	EPA 7471	415391	EPA 7471	415808
50184326003	SB02 (0-2)	EPA 7471	415391	EPA 7471	415808
50184326004	SB02 (16-18)	EPA 7471	415391	EPA 7471	415808
50184326005	SB03 (12-14)	EPA 7471	415391	EPA 7471	415808
50184326006	SB04 (0-2)	EPA 7471	415391	EPA 7471	415808
50184326007	SB04 (14-16)	EPA 7471	415391	EPA 7471	415808
50184326008	SB05 (0-2)	EPA 7471	415391	EPA 7471	415808
50184326009	SB05 (14-16)	EPA 7471	415391	EPA 7471	415808
50184326010	SB06 (0-2)	EPA 7471	415391	EPA 7471	415808
50184326011	SB06 (16-18)	EPA 7471	415391	EPA 7471	415808
50184326013	SB07 (14-16)	EPA 7471	415391	EPA 7471	415808
50184326014	SB08 (0-2)	EPA 7471	415391	EPA 7471	415808
50184326015	SB08 (12-14)	EPA 7471	415391	EPA 7471	415808
50184326016	DUP-SL1	EPA 7471	415391	EPA 7471	415808
50184326017	DUP-SL2	EPA 7471	415391	EPA 7471	415808
50184326001	SB01 (0-2)	EPA 3546	415193	EPA 8270 by SIM	415321
50184326002	SB01 (10-12)	EPA 3546	415193	EPA 8270 by SIM	415321
50184326003	SB02 (0-2)	EPA 3546	415194	EPA 8270 by SIM	415322
50184326004	SB02 (16-18)	EPA 3546	415193	EPA 8270 by SIM	415321
50184326005	SB03 (12-14)	EPA 3546	415193	EPA 8270 by SIM	415321
50184326006	SB04 (0-2)	EPA 3546	415193	EPA 8270 by SIM	415321
50184326007	SB04 (14-16)	EPA 3546	415193	EPA 8270 by SIM	415321
50184326008	SB05 (0-2)	EPA 3546	415193	EPA 8270 by SIM	415321
50184326009	SB05 (14-16)	EPA 3546	415194	EPA 8270 by SIM	415322
50184326010	SB06 (0-2)	EPA 3546	415194	EPA 8270 by SIM	415322
50184326011	SB06 (16-18)	EPA 3546	415194	EPA 8270 by SIM	415322
50184326013	SB07 (14-16)	EPA 3546	415194	EPA 8270 by SIM	415322
50184326014	SB08 (0-2)	EPA 3546	415194	EPA 8270 by SIM	415322
50184326015	SB08 (12-14)	EPA 3546	415194	EPA 8270 by SIM	415322

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184326

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184326016	DUP-SL1	EPA 3546	415194	EPA 8270 by SIM	415322
50184326017	DUP-SL2	EPA 3546	415194	EPA 8270 by SIM	415322
50184326001	SB01 (0-2)	EPA 8260	415412		
50184326002	SB01 (10-12)	EPA 8260	415745		
50184326003	SB02 (0-2)	EPA 8260	415482		
50184326004	SB02 (16-18)	EPA 8260	415412		
50184326005	SB03 (12-14)	EPA 8260	415412		
50184326006	SB04 (0-2)	EPA 8260	415412		
50184326007	SB04 (14-16)	EPA 8260	415412		
50184326008	SB05 (0-2)	EPA 8260	415412		
50184326009	SB05 (14-16)	EPA 8260	415412		
50184326010	SB06 (0-2)	EPA 8260	415482		
50184326011	SB06 (16-18)	EPA 8260	415482		
50184326013	SB07 (14-16)	EPA 8260	415482		
50184326014	SB08 (0-2)	EPA 8260	415482		
50184326015	SB08 (12-14)	EPA 8260	415482		
50184326016	DUP-SL1	EPA 8260	415482		
50184326017	DUP-SL2	EPA 8260	415482		
50184326018	TB-1	EPA 8260	415482		
50184326001	SB01 (0-2)	SM 2540G	415158		
50184326002	SB01 (10-12)	SM 2540G	415158		
50184326003	SB02 (0-2)	SM 2540G	415158		
50184326004	SB02 (16-18)	SM 2540G	415158		
50184326005	SB03 (12-14)	SM 2540G	415158		
50184326006	SB04 (0-2)	SM 2540G	415158		
50184326007	SB04 (14-16)	SM 2540G	415158		
50184326008	SB05 (0-2)	SM 2540G	415158		
50184326009	SB05 (14-16)	SM 2540G	415158		
50184326010	SB06 (0-2)	SM 2540G	415158		
50184326011	SB06 (16-18)	SM 2540G	415158		
50184326013	SB07 (14-16)	SM 2540G	415158		
50184326014	SB08 (0-2)	SM 2540G	415158		
50184326015	SB08 (12-14)	SM 2540G	415158		
50184326016	DUP-SL1	SM 2540G	415158		
50184326017	DUP-SL2	SM 2540G	415158		
50184326003	SB02 (0-2)	EPA 3060A	419986	EPA 7196A	420091
50184326010	SB06 (0-2)	EPA 3060A	419986	EPA 7196A	420091

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1 of 2

[illegible]



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	SME	Report To:	Christopher Shaw	Attention:	
Address:	5835 W. 74th Street	Copy To:		Company Name:	
	Indianapolis, IN 46278			Address:	
Email To:	shaw@sme-usa.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	317-876-0200	Project Name:	Convention Center - Hotel Site	Pace Project Manager:	
Requested Due Date/TAT:	Standard	Project Number:	073195.00.04B.006	Pace Profile #:	

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER WASTE WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIFE AIR OTHER TISSE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAS							
1	SB07 (14-16)	SL G	G	DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HCl	HNO ₃	613
2	SB08 (0-2)	SL G	G	DATE	TIME	DATE	TIME	NaOH	Na ₂ O ₃	Methanol	Other	613-014
3	SB08 (12-14)	SL G	G	DATE	TIME	DATE	TIME	1	2	1	2	615
4	DUP-SL1	SL G	G	DATE	TIME	DATE	TIME	1	2	1	2	616
5	DUP-SL2	SL G	G	DATE	TIME	DATE	TIME	1	2	1	2	617
6	TB-1	TB G	G	DATE	TIME	DATE	TIME	1	2	1	2	618
7												
8												
9												
10												
11												
12												

Level IV QA/QC	ADDITIONAL COMMENTS	REQUISITIONED BY/AFFILIATION		ACCEPTED BY/AFFILIATION		SAMPLE CONDITIONS	
		DATE	TIME	DATE	TIME	Temp in °C	Received on
MS/MSD collected from SB01 (0-2)	Spec Gold Storage	11/13/17	1930	11/13/17	1930		
MS/MSD collected from SB02 (0-2)	Spec Gold Storage	11/14/17	1100	11/14/17	1100		
	Spec Gold Storage	11/14/17	1325	11/14/17	1325	21	7

SAMPLER NAME AND SIGNATURE		DATE SIGNED (MM/DD/YYYY)	
PRINT Name of SAMPLER: Mark Sparks		11/13/2017	
SIGNATURE of SAMPLER:			

Sample Condition Upon Receipt

Pace Analytical

Project # 50184320

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 ☐ Yes ☐ No ☒ N/A Samples iced, cooling process has begun

Cooler Temperature 3.1/3.1
(Initial/Corrected) Temp should be above freezing to 6°C

Ice Visible in Sample Containers: ☐ Yes ☒ No ☐ N/A

If Over 6°C, Was PM Notified? ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: <u>11/14/17 1430</u>		Comments	
Are samples from West Virginia? Document any containers out of temp.	☐ Yes ☒ No	1.	
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico)	☐ Yes ☒ No	2.	
Chain of Custody Present:	☒ Yes ☐ No	3.	
Chain of Custody Filled Out:	☒ Yes ☐ No	4.	
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	5. <u>TC</u>	Date/Time 5035A T/C placed in Freezer: <u>1515</u> Short Holds Taken to Lab: _____
Rush Turn Around Time Requested:	☐ Yes ☒ No	6.	
Containers Intact:	☐ Yes ☒ No	7. <u>SB07(0-2) BROKEN during UNLOADING</u>	
Sample Labels match COC: -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.	☒ Yes ☐ No	8.	
Were dissolved metals samples field filtered?	☐ Yes ☐ No ☒ N/A	9.	
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.	☐ Yes ☐ No ☒ N/A	10. (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc	
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent	
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent	
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	13.	
Headspace Wisconsin Sulfide	☐ Yes ☐ No ☒ N/A	14.	
Trip Blank Present: ☒ Yes ☐ No	Custody Seals ☒ Yes ☐ No	15.	16.

Client Notification/ Resolution:

Person Contacted: Chris Shaw Date/Time: 11/14/17 3:05 pm

Comments/ Resolution:

Convention Center - Broke SB07(0-2)
cannot run PAH, PCRA8, 9m - Broken
in receiving (B)
- still at site - will recollect 4 R (B)
see project 50184497 for SB07(0-2) (B)

Sample Container Count

CLIENT: Sue

COC PAGE 1 of 2

COC ID# _____ Project # 50184326

Matrix SIM/NAL
(Soil/Water/Non-
Aqueous Liquid)

SBS
Kit

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGFS	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	pH <2	pH >9	pH >12
1						3										9	SL		
2						1										3			
3						3										9			
4						1										3			
5						1													
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	1liter 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		
WGAU	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

CLIENT: SME

COC PAGE 2 of 2

COC ID# _____

Project # 50184324

Matrix SIMW/NAL
(Soil/Water/Non-
Aqueous Liquid)

SBS
KZ
R

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGUFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix SIMW/NAL (Soil/Water/Non- Aqueous Liquid)	pH <2	pH >9	pH >12
1						1										3	SL			
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	1liter 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		
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGUFU	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				

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December 18, 2017

Mr. Chris Shaw
SME
5835 W 74th Street
Indianapolis, IN 46278

RE: Project: Convention Center - Hotel Site
Pace Project No.: 50184394

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report: Cr+6 added to samples SB14(0-2) and SB17(0-2) per client request. dss

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 003971

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-17-11

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50184394001	SB09 (0-2)	Solid	11/14/17 08:20	11/15/17 11:40
50184394002	SB09 (12-14)	Solid	11/14/17 08:40	11/15/17 11:40
50184394003	SB10 (0-2)	Solid	11/14/17 09:00	11/15/17 11:40
50184394004	SB10 (14-16)	Solid	11/14/17 09:15	11/15/17 11:40
50184394005	SB11 (0-2)	Solid	11/14/17 10:00	11/15/17 11:40
50184394006	SB11 (14-16)	Solid	11/14/17 10:15	11/15/17 11:40
50184394007	SB12 (0-2)	Solid	11/14/17 10:30	11/15/17 11:40
50184394008	SB12 (10-12)	Solid	11/14/17 10:45	11/15/17 11:40
50184394009	SB13 (0-2)	Solid	11/14/17 11:00	11/15/17 11:40
50184394010	SB13 (26-28)	Solid	11/14/17 11:45	11/15/17 11:40
50184394011	SB14 (0-2)	Solid	11/14/17 12:00	11/15/17 11:40
50184394012	SB14 (6-8)	Solid	11/14/17 12:15	11/15/17 11:40
50184394013	SB15 (0-2)	Solid	11/14/17 12:50	11/15/17 11:40
50184394014	SB15 (8-10)	Solid	11/14/17 13:00	11/15/17 11:40
50184394015	SB16 (0-2)	Solid	11/14/17 13:35	11/15/17 11:40
50184394016	SB16 (10-12)	Solid	11/14/17 13:50	11/15/17 11:40
50184394017	SB17 (0-2)	Solid	11/14/17 14:35	11/15/17 11:40
50184394018	SB17 (16-18)	Solid	11/14/17 14:55	11/15/17 11:40
50184394019	SB18 (0-2)	Solid	11/14/17 15:15	11/15/17 11:40
50184394020	SB18 (16-18)	Solid	11/14/17 15:35	11/15/17 11:40
50184394021	SB19 (0-2)	Solid	11/14/17 15:55	11/15/17 11:40
50184394022	SB19 (14-16)	Solid	11/14/17 16:10	11/15/17 11:40
50184394023	SB20 (0-2)	Solid	11/14/17 16:25	11/15/17 11:40
50184394024	SB20 (24-26)	Solid	11/14/17 16:50	11/15/17 11:40
50184394025	TB-2	Solid	11/14/17 08:00	11/15/17 11:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184394001	SB09 (0-2)	EPA 6010	FRW	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184394002	SB09 (12-14)	EPA 6010	FRW	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184394003	SB10 (0-2)	EPA 6010	FRW	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184394004	SB10 (14-16)	EPA 6010	FRW	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184394005	SB11 (0-2)	EPA 6010	FRW	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184394006	SB11 (14-16)	EPA 6010	FRW	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184394007	SB12 (0-2)	EPA 6010	FRW	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184394008	SB12 (10-12)	EPA 6010	FRW	7	PASI-I
		EPA 7471	JGJ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184394009	SB13 (0-2)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	ILP	1	PASI-I
50184394010	SB13 (26-28)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	ILP	1	PASI-I
50184394011	SB14 (0-2)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	ILP	1	PASI-I
50184394012	SB14 (6-8)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 7196A	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
50184394013	SB15 (0-2)	EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
50184394014	SB15 (8-10)	EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
50184394015	SB16 (0-2)	EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA, TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184394016	SB16 (10-12)	EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
50184394017	SB17 (0-2)	EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
50184394018	SB17 (16-18)	EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 7196A	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	ILP	1	PASI-I
50184394019	SB18 (0-2)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	ILP	1	PASI-I
50184394020	SB18 (16-18)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	ILP	1	PASI-I
50184394021	SB19 (0-2)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
50184394022	SB19 (14-16)	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184394023	SB20 (0-2)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
50184394024	SB20 (24-26)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	72	PASI-I
50184394025	TB-2	SM 2540G	SKK	1	PASI-I
		EPA 8260	TMW	72	PASI-I

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184394001	SB09 (0-2)					
EPA 6010	Arsenic	10.1	mg/kg	1.2	11/20/17 10:31	
EPA 6010	Barium	95.7	mg/kg	1.2	11/20/17 10:31	
EPA 6010	Cadmium	0.72	mg/kg	0.60	11/20/17 10:31	
EPA 6010	Chromium	16.4	mg/kg	1.2	11/20/17 10:31	
EPA 6010	Lead	150	mg/kg	1.2	11/20/17 10:31	
EPA 8270 by SIM	Acenaphthylene	0.014	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Anthracene	0.032	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Benzo(a)anthracene	0.11	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Benzo(a)pyrene	0.10	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.087	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.061	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.088	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Chrysene	0.11	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.020	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Fluoranthene	0.24	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.057	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	1-Methylnaphthalene	0.015	mg/kg	0.0060	11/16/17 21:59	N2
EPA 8270 by SIM	2-Methylnaphthalene	0.018	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Naphthalene	0.014	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Phenanthrene	0.13	mg/kg	0.0060	11/16/17 21:59	
EPA 8270 by SIM	Pyrene	0.19	mg/kg	0.0060	11/16/17 21:59	
SM 2540G	Percent Moisture	17.7	%	0.10	11/15/17 14:42	
50184394002	SB09 (12-14)					
EPA 6010	Arsenic	5.6	mg/kg	1.1	11/20/17 10:34	
EPA 6010	Barium	45.6	mg/kg	1.1	11/20/17 10:34	
EPA 6010	Chromium	12.8	mg/kg	1.1	11/20/17 10:34	
EPA 6010	Lead	7.2	mg/kg	1.1	11/20/17 10:34	
SM 2540G	Percent Moisture	9.7	%	0.10	11/15/17 14:43	
50184394003	SB10 (0-2)					
EPA 6010	Arsenic	8.4	mg/kg	1.1	11/20/17 10:36	
EPA 6010	Barium	43.2	mg/kg	1.1	11/20/17 10:36	
EPA 6010	Chromium	10.3	mg/kg	1.1	11/20/17 10:36	
EPA 6010	Lead	20.7	mg/kg	1.1	11/20/17 10:36	
EPA 8270 by SIM	Benzo(a)anthracene	0.012	mg/kg	0.0055	11/16/17 22:32	
EPA 8270 by SIM	Benzo(a)pyrene	0.016	mg/kg	0.0055	11/16/17 22:32	R1
EPA 8270 by SIM	Benzo(b)fluoranthene	0.013	mg/kg	0.0055	11/16/17 22:32	R1
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.017	mg/kg	0.0055	11/16/17 22:32	R1
EPA 8270 by SIM	Benzo(k)fluoranthene	0.013	mg/kg	0.0055	11/16/17 22:32	R1
EPA 8270 by SIM	Chrysene	0.017	mg/kg	0.0055	11/16/17 22:32	
EPA 8270 by SIM	Fluoranthene	0.022	mg/kg	0.0055	11/16/17 22:32	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.011	mg/kg	0.0055	11/16/17 22:32	R1
EPA 8270 by SIM	Phenanthrene	0.012	mg/kg	0.0055	11/16/17 22:32	
EPA 8270 by SIM	Pyrene	0.020	mg/kg	0.0055	11/16/17 22:32	
SM 2540G	Percent Moisture	8.8	%	0.10	11/15/17 14:43	
50184394004	SB10 (14-16)					
EPA 6010	Arsenic	7.8	mg/kg	1.2	11/20/17 10:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184394004	SB10 (14-16)					
EPA 6010	Barium	75.1	mg/kg	1.2	11/20/17 10:53	
EPA 6010	Chromium	15.6	mg/kg	1.2	11/20/17 10:53	
EPA 6010	Lead	9.2	mg/kg	1.2	11/20/17 10:53	
EPA 8260	cis-1,2-Dichloroethene	0.026	mg/kg	0.0056	11/21/17 01:32	
EPA 8260	Tetrachloroethene	0.14	mg/kg	0.0056	11/21/17 01:32	
EPA 8260	Trichloroethene	0.030	mg/kg	0.0056	11/21/17 01:32	
SM 2540G	Percent Moisture	20.4	%	0.10	11/15/17 14:43	
50184394005	SB11 (0-2)					
EPA 6010	Arsenic	4.3	mg/kg	0.91	11/20/17 10:55	
EPA 6010	Barium	30.5	mg/kg	0.91	11/20/17 10:55	
EPA 6010	Chromium	10.5	mg/kg	0.91	11/20/17 10:55	
EPA 6010	Lead	25.0	mg/kg	0.91	11/20/17 10:55	
EPA 8270 by SIM	Acenaphthene	0.033	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Anthracene	0.094	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Benzo(a)anthracene	0.22	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Benzo(a)pyrene	0.19	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.16	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.13	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.18	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Chrysene	0.27	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.038	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Fluoranthene	0.60	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Fluorene	0.030	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.11	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Phenanthrene	0.47	mg/kg	0.027	11/16/17 23:38	
EPA 8270 by SIM	Pyrene	0.51	mg/kg	0.027	11/16/17 23:38	
SM 2540G	Percent Moisture	6.1	%	0.10	11/15/17 14:43	
50184394006	SB11 (14-16)					
EPA 6010	Arsenic	4.2	mg/kg	1.3	11/20/17 11:00	
EPA 6010	Barium	70.0	mg/kg	1.3	11/20/17 11:00	
EPA 6010	Chromium	11.9	mg/kg	1.3	11/20/17 11:00	
EPA 6010	Lead	7.1	mg/kg	1.3	11/20/17 11:00	
SM 2540G	Percent Moisture	27.3	%	0.10	11/15/17 14:43	
50184394007	SB12 (0-2)					
EPA 6010	Arsenic	7.1	mg/kg	1.1	11/20/17 11:02	
EPA 6010	Barium	71.2	mg/kg	1.1	11/20/17 11:02	
EPA 6010	Chromium	12.9	mg/kg	1.1	11/20/17 11:02	
EPA 6010	Lead	94.3	mg/kg	1.1	11/20/17 11:02	
EPA 8270 by SIM	Anthracene	0.012	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Benzo(a)anthracene	0.042	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Benzo(a)pyrene	0.039	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.030	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.021	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.033	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Chrysene	0.045	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.0074	mg/kg	0.0059	11/17/17 00:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184394007	SB12 (0-2)					
EPA 8270 by SIM	Fluoranthene	0.096	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Fluorene	0.0088	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.019	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	1-Methylnaphthalene	0.013	mg/kg	0.0059	11/17/17 00:44	N2
EPA 8270 by SIM	2-Methylnaphthalene	0.023	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Naphthalene	0.0089	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Phenanthrene	0.064	mg/kg	0.0059	11/17/17 00:44	
EPA 8270 by SIM	Pyrene	0.075	mg/kg	0.0059	11/17/17 00:44	
EPA 8260	Trichloroethene	0.0083	mg/kg	0.0048	11/21/17 03:08	
SM 2540G	Percent Moisture	15.2	%	0.10	11/15/17 14:43	
50184394008	SB12 (10-12)					
EPA 6010	Arsenic	5.4	mg/kg	1.1	11/20/17 11:04	
EPA 6010	Barium	53.4	mg/kg	1.1	11/20/17 11:04	
EPA 6010	Chromium	14.4	mg/kg	1.1	11/20/17 11:04	
EPA 6010	Lead	8.9	mg/kg	1.1	11/20/17 11:04	
SM 2540G	Percent Moisture	15.8	%	0.10	11/15/17 14:43	
50184394009	SB13 (0-2)					
EPA 6010	Arsenic	8.6	mg/kg	1.0	11/20/17 11:06	
EPA 6010	Barium	59.4	mg/kg	1.0	11/20/17 11:06	
EPA 6010	Chromium	13.5	mg/kg	1.0	11/20/17 11:06	
EPA 6010	Lead	112	mg/kg	1.0	11/20/17 11:06	
EPA 8270 by SIM	Benzo(a)anthracene	0.012	mg/kg	0.0058	11/17/17 01:17	
EPA 8270 by SIM	Benzo(a)pyrene	0.0099	mg/kg	0.0058	11/17/17 01:17	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0099	mg/kg	0.0058	11/17/17 01:17	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.0097	mg/kg	0.0058	11/17/17 01:17	
EPA 8270 by SIM	Chrysene	0.023	mg/kg	0.0058	11/17/17 01:17	
EPA 8270 by SIM	Fluoranthene	0.027	mg/kg	0.0058	11/17/17 01:17	
EPA 8270 by SIM	Phenanthrene	0.021	mg/kg	0.0058	11/17/17 01:17	
EPA 8270 by SIM	Pyrene	0.020	mg/kg	0.0058	11/17/17 01:17	
EPA 8260	Tetrachloroethene	3.8	mg/kg	0.12	11/20/17 19:05	
SM 2540G	Percent Moisture	13.7	%	0.10	11/15/17 14:44	
50184394010	SB13 (26-28)					
EPA 6010	Arsenic	6.1	mg/kg	0.94	11/20/17 11:09	
EPA 6010	Barium	41.7	mg/kg	0.94	11/20/17 11:09	
EPA 6010	Chromium	10.5	mg/kg	0.94	11/20/17 11:09	
EPA 6010	Lead	5.7	mg/kg	0.94	11/20/17 11:09	
SM 2540G	Percent Moisture	11.4	%	0.10	11/15/17 14:44	
50184394011	SB14 (0-2)					
EPA 6010	Arsenic	7.3	mg/kg	1.2	11/20/17 11:11	
EPA 6010	Barium	62.0	mg/kg	1.2	11/20/17 11:11	
EPA 6010	Chromium	16.0	mg/kg	1.2	11/20/17 11:11	
EPA 6010	Lead	19.5	mg/kg	1.2	11/20/17 11:11	
EPA 8270 by SIM	Benzo(a)anthracene	0.0094	mg/kg	0.0060	11/17/17 01:51	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.0064	mg/kg	0.0060	11/17/17 01:51	
EPA 8270 by SIM	Chrysene	0.0089	mg/kg	0.0060	11/17/17 01:51	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184394011	SB14 (0-2)					
EPA 8270 by SIM	Fluoranthene	0.019	mg/kg	0.0060	11/17/17 01:51	
EPA 8270 by SIM	Phenanthrene	0.013	mg/kg	0.0060	11/17/17 01:51	
EPA 8270 by SIM	Pyrene	0.014	mg/kg	0.0060	11/17/17 01:51	
EPA 8260	Tetrachloroethene	0.062	mg/kg	0.0048	11/20/17 20:09	
SM 2540G	Percent Moisture	18.4	%	0.10	11/15/17 14:44	
50184394012	SB14 (6-8)					
EPA 6010	Arsenic	6.8	mg/kg	0.96	11/20/17 11:13	
EPA 6010	Barium	34.3	mg/kg	0.96	11/20/17 11:13	
EPA 6010	Chromium	11.3	mg/kg	0.96	11/20/17 11:13	
EPA 6010	Lead	6.8	mg/kg	0.96	11/20/17 11:13	
EPA 8260	Tetrachloroethene	0.047	mg/kg	0.0042	11/21/17 03:40	
SM 2540G	Percent Moisture	10.1	%	0.10	11/15/17 14:44	
50184394013	SB15 (0-2)					
EPA 6010	Arsenic	5.4	mg/kg	1.0	11/20/17 11:20	
EPA 6010	Barium	101	mg/kg	1.0	11/20/17 11:20	
EPA 6010	Chromium	14.3	mg/kg	1.0	11/20/17 11:20	
EPA 6010	Lead	18.4	mg/kg	1.0	11/20/17 11:20	
EPA 7471	Mercury	0.33	mg/kg	0.23	11/21/17 09:21	
EPA 8270 by SIM	Acenaphthene	0.079	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Acenaphthylene	0.20	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Anthracene	0.29	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Benzo(a)anthracene	0.81	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Benzo(a)pyrene	0.85	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.67	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.45	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.80	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Chrysene	1.0	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.15	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Fluoranthene	3.0	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Fluorene	0.10	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.43	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	1-Methylnaphthalene	0.14	mg/kg	0.0060	11/17/17 02:24	N2
EPA 8270 by SIM	2-Methylnaphthalene	0.14	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Naphthalene	0.31	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Phenanthrene	2.7	mg/kg	0.0060	11/17/17 02:24	
EPA 8270 by SIM	Pyrene	2.2	mg/kg	0.0060	11/17/17 02:24	
EPA 8260	Tetrachloroethene	0.063	mg/kg	0.0046	11/21/17 04:12	
SM 2540G	Percent Moisture	16.8	%	0.10	11/15/17 14:44	
50184394014	SB15 (8-10)					
EPA 6010	Arsenic	4.7	mg/kg	1.1	11/20/17 11:22	
EPA 6010	Barium	55.1	mg/kg	1.1	11/20/17 11:22	
EPA 6010	Chromium	14.1	mg/kg	1.1	11/20/17 11:22	
EPA 6010	Lead	6.2	mg/kg	1.1	11/20/17 11:22	
EPA 8270 by SIM	Acenaphthylene	0.0082	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Anthracene	0.0080	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Benzo(a)anthracene	0.021	mg/kg	0.0062	11/17/17 02:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184394014	SB15 (8-10)					
EPA 8270 by SIM	Benzo(a)pyrene	0.022	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.016	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.012	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.025	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Chrysene	0.028	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Fluoranthene	0.067	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.013	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Phenanthrene	0.047	mg/kg	0.0062	11/17/17 02:40	
EPA 8270 by SIM	Pyrene	0.051	mg/kg	0.0062	11/17/17 02:40	
EPA 8260	Tetrachloroethene	25.1	mg/kg	2.5	11/21/17 17:30	
EPA 8260	Trichloroethene	0.29	mg/kg	0.25	11/20/17 20:41	
SM 2540G	Percent Moisture	19.2	%	0.10	11/15/17 14:44	
50184394015	SB16 (0-2)					
EPA 6010	Arsenic	4.8	mg/kg	0.96	11/20/17 11:24	
EPA 6010	Barium	23.1	mg/kg	0.96	11/20/17 11:24	
EPA 6010	Chromium	12.3	mg/kg	0.96	11/20/17 11:24	
EPA 6010	Lead	20.4	mg/kg	0.96	11/20/17 11:24	
EPA 8270 by SIM	Anthracene	0.041	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Benzo(a)anthracene	0.24	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Benzo(a)pyrene	0.31	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.30	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.24	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.31	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Chrysene	0.33	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.074	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Fluoranthene	0.65	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.21	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Phenanthrene	0.20	mg/kg	0.027	11/17/17 02:57	
EPA 8270 by SIM	Pyrene	0.43	mg/kg	0.027	11/17/17 02:57	
SM 2540G	Percent Moisture	9.3	%	0.10	11/15/17 14:44	
50184394016	SB16 (10-12)					
EPA 6010	Arsenic	8.6	mg/kg	1.1	11/20/17 11:26	
EPA 6010	Barium	73.6	mg/kg	1.1	11/20/17 11:26	
EPA 6010	Chromium	13.3	mg/kg	1.1	11/20/17 11:26	
EPA 6010	Lead	9.5	mg/kg	1.1	11/20/17 11:26	
EPA 8260	Tetrachloroethene	0.13	mg/kg	0.0048	11/18/17 08:43	M5
EPA 8260	Trichloroethene	0.010	mg/kg	0.0048	11/18/17 08:43	M5
SM 2540G	Percent Moisture	18.1	%	0.10	11/15/17 14:44	
50184394017	SB17 (0-2)					
EPA 6010	Arsenic	8.9	mg/kg	1.1	11/20/17 10:29	
EPA 6010	Barium	66.5	mg/kg	1.1	11/20/17 10:29	
EPA 6010	Chromium	18.9	mg/kg	1.1	11/20/17 10:29	
EPA 6010	Lead	25.2	mg/kg	1.1	11/20/17 10:29	
EPA 7471	Mercury	0.27	mg/kg	0.25	11/21/17 09:33	
EPA 8270 by SIM	Acenaphthene	0.014	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Acenaphthylene	0.037	mg/kg	0.0060	11/17/17 03:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184394017	SB17 (0-2)					
EPA 8270 by SIM	Anthracene	0.062	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Benzo(a)anthracene	0.21	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Benzo(a)pyrene	0.21	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.16	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.12	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.16	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Chrysene	0.20	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.042	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Fluoranthene	0.40	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Fluorene	0.014	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.11	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	2-Methylnaphthalene	0.0062	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Naphthalene	0.0093	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Phenanthrene	0.21	mg/kg	0.0060	11/17/17 03:30	
EPA 8270 by SIM	Pyrene	0.35	mg/kg	0.0060	11/17/17 03:30	
SM 2540G	Percent Moisture	16.9	%	0.10	11/15/17 14:44	
50184394018	SB17 (16-18)					
EPA 6010	Arsenic	7.5	mg/kg	0.97	11/20/17 11:29	
EPA 6010	Barium	39.9	mg/kg	0.97	11/20/17 11:29	
EPA 6010	Chromium	10.4	mg/kg	0.97	11/20/17 11:29	
EPA 6010	Lead	6.1	mg/kg	0.97	11/20/17 11:29	
EPA 8270 by SIM	Chrysene	0.0076	mg/kg	0.0054	11/17/17 03:46	
EPA 8270 by SIM	Phenanthrene	0.013	mg/kg	0.0054	11/17/17 03:46	
SM 2540G	Percent Moisture	7.7	%	0.10	11/15/17 14:44	
50184394019	SB18 (0-2)					
EPA 6010	Arsenic	5.7	mg/kg	1.2	11/20/17 11:31	
EPA 6010	Barium	104	mg/kg	1.2	11/20/17 11:31	
EPA 6010	Chromium	14.4	mg/kg	1.2	11/20/17 11:31	
EPA 6010	Lead	54.9	mg/kg	1.2	11/20/17 11:31	
SM 2540G	Percent Moisture	17.0	%	0.10	11/15/17 14:44	
50184394020	SB18 (16-18)					
EPA 6010	Arsenic	9.3	mg/kg	1.0	11/20/17 11:33	
EPA 6010	Barium	22.1	mg/kg	1.0	11/20/17 11:33	
EPA 6010	Chromium	8.5	mg/kg	1.0	11/20/17 11:33	
EPA 6010	Lead	6.2	mg/kg	1.0	11/20/17 11:33	
SM 2540G	Percent Moisture	7.2	%	0.10	11/15/17 14:45	
50184394021	SB19 (0-2)					
EPA 6010	Arsenic	13.6	mg/kg	0.97	11/19/17 15:03	
EPA 6010	Barium	45.5	mg/kg	0.97	11/19/17 15:03	
EPA 6010	Chromium	13.3	mg/kg	0.97	11/19/17 15:03	
EPA 6010	Lead	7.3	mg/kg	0.97	11/19/17 15:03	
EPA 6010	Selenium	2.8	mg/kg	0.97	11/19/17 15:03	
SM 2540G	Percent Moisture	10.8	%	0.10	11/15/17 14:40	

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184394022	SB19 (14-16)					
EPA 6010	Arsenic	6.3	mg/kg	1.0	11/19/17 15:06	
EPA 6010	Barium	28.3	mg/kg	1.0	11/19/17 15:06	
EPA 6010	Chromium	10.1	mg/kg	1.0	11/19/17 15:06	
EPA 6010	Lead	5.7	mg/kg	1.0	11/19/17 15:06	
EPA 6010	Selenium	1.8	mg/kg	1.0	11/19/17 15:06	
EPA 8270 by SIM	Phenanthrene	0.0057	mg/kg	0.0055	11/17/17 18:43	
SM 2540G	Percent Moisture	8.7	%	0.10	11/15/17 14:40	
50184394023	SB20 (0-2)					
EPA 6010	Arsenic	7.4	mg/kg	1.1	11/19/17 15:08	
EPA 6010	Barium	65.5	mg/kg	1.1	11/19/17 15:08	
EPA 6010	Chromium	11.7	mg/kg	1.1	11/19/17 15:08	
EPA 6010	Lead	15.5	mg/kg	1.1	11/19/17 15:08	
EPA 6010	Selenium	1.7	mg/kg	1.1	11/19/17 15:08	
EPA 8270 by SIM	Fluoranthene	0.0098	mg/kg	0.0058	11/17/17 18:59	
EPA 8270 by SIM	Pyrene	0.0074	mg/kg	0.0058	11/17/17 18:59	
SM 2540G	Percent Moisture	13.3	%	0.10	11/15/17 14:40	
50184394024	SB20 (24-26)					
EPA 6010	Arsenic	7.4	mg/kg	0.99	11/19/17 15:10	
EPA 6010	Barium	47.1	mg/kg	0.99	11/19/17 15:10	
EPA 6010	Chromium	10.7	mg/kg	0.99	11/19/17 15:10	
EPA 6010	Lead	6.4	mg/kg	0.99	11/19/17 15:10	
EPA 6010	Selenium	2.1	mg/kg	0.99	11/19/17 15:10	
EPA 8270 by SIM	Phenanthrene	0.0059	mg/kg	0.0055	11/17/17 19:15	
SM 2540G	Percent Moisture	10.1	%	0.10	11/15/17 14:40	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB09 (0-2) Lab ID: 50184394001 Collected: 11/14/17 08:20 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	10.1	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:31	7440-38-2	
Barium	95.7	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:31	7440-39-3	
Cadmium	0.72	mg/kg	0.60	1	11/16/17 06:18	11/20/17 10:31	7440-43-9	
Chromium	16.4	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:31	7440-47-3	
Lead	150	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:31	7439-92-1	
Selenium	ND	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:31	7782-49-2	
Silver	ND	mg/kg	0.60	1	11/16/17 06:18	11/20/17 10:31	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.25	1	11/17/17 12:49	11/17/17 19:17	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	83-32-9	
Acenaphthylene	0.014	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	208-96-8	
Anthracene	0.032	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	120-12-7	
Benzo(a)anthracene	0.11	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	56-55-3	
Benzo(a)pyrene	0.10	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	50-32-8	
Benzo(b)fluoranthene	0.087	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	205-99-2	
Benzo(g,h,i)perylene	0.061	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	191-24-2	
Benzo(k)fluoranthene	0.088	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	207-08-9	
Chrysene	0.11	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	218-01-9	
Dibenz(a,h)anthracene	0.020	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	53-70-3	
Fluoranthene	0.24	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	86-73-7	
Indeno(1,2,3-cd)pyrene	0.057	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	193-39-5	
1-Methylnaphthalene	0.015	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	90-12-0	N2
2-Methylnaphthalene	0.018	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	91-57-6	
Naphthalene	0.014	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	91-20-3	
Phenanthrene	0.13	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	85-01-8	
Pyrene	0.19	mg/kg	0.0060	1	11/16/17 10:00	11/16/17 21:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-94	1	11/16/17 10:00	11/16/17 21:59	321-60-8	
p-Terphenyl-d14 (S)	68	%.	27-102	1	11/16/17 10:00	11/16/17 21:59	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.099	1		11/17/17 20:20	67-64-1	
Acrolein	ND	mg/kg	0.099	1		11/17/17 20:20	107-02-8	
Acrylonitrile	ND	mg/kg	0.099	1		11/17/17 20:20	107-13-1	
Benzene	ND	mg/kg	0.0049	1		11/17/17 20:20	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1		11/17/17 20:20	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1		11/17/17 20:20	75-27-4	
Bromoform	ND	mg/kg	0.0049	1		11/17/17 20:20	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1		11/17/17 20:20	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/17/17 20:20	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB09 (0-2) Lab ID: 50184394001 Collected: 11/14/17 08:20 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	98-06-6	
Carbon disulfide	ND	mg/kg	0.0099	1		11/17/17 20:20	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1		11/17/17 20:20	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1		11/17/17 20:20	75-00-3	
Chloroform	ND	mg/kg	0.0049	1		11/17/17 20:20	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1		11/17/17 20:20	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1		11/17/17 20:20	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	1		11/17/17 20:20	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0049	1		11/17/17 20:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		11/17/17 20:20	106-93-4	
Dibromomethane	ND	mg/kg	0.0049	1		11/17/17 20:20	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.099	1		11/17/17 20:20	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		11/17/17 20:20	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1		11/17/17 20:20	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1		11/17/17 20:20	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	1		11/17/17 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/17/17 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/17/17 20:20	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1		11/17/17 20:20	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1		11/17/17 20:20	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1		11/17/17 20:20	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1		11/17/17 20:20	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/17/17 20:20	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/17/17 20:20	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.099	1		11/17/17 20:20	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		11/17/17 20:20	87-68-3	
n-Hexane	ND	mg/kg	0.0049	1		11/17/17 20:20	110-54-3	
2-Hexanone	ND	mg/kg	0.099	1		11/17/17 20:20	591-78-6	
Iodomethane	ND	mg/kg	0.099	1		11/17/17 20:20	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		11/17/17 20:20	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1		11/17/17 20:20	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/17/17 20:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/17/17 20:20	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		11/17/17 20:20	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	103-65-1	
Styrene	ND	mg/kg	0.0049	1		11/17/17 20:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/17/17 20:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/17/17 20:20	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	1		11/17/17 20:20	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB09 (0-2) Lab ID: 50184394001 Collected: 11/14/17 08:20 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0049	1		11/17/17 20:20	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		11/17/17 20:20	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		11/17/17 20:20	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1		11/17/17 20:20	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1		11/17/17 20:20	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		11/17/17 20:20	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		11/17/17 20:20	108-67-8	
Vinyl acetate	ND	mg/kg	0.099	1		11/17/17 20:20	108-05-4	
Vinyl chloride	ND	mg/kg	0.0049	1		11/17/17 20:20	75-01-4	
Xylene (Total)	ND	mg/kg	0.0099	1		11/17/17 20:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	69-136	1		11/17/17 20:20	1868-53-7	
Toluene-d8 (S)	103	%	64-150	1		11/17/17 20:20	2037-26-5	
4-Bromofluorobenzene (S)	89	%	51-142	1		11/17/17 20:20	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	17.7	%	0.10	1		11/15/17 14:42		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB09 (12-14) **Lab ID: 50184394002** Collected: 11/14/17 08:40 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.6	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:34	7440-38-2	
Barium	45.6	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:34	7440-39-3	
Cadmium	ND	mg/kg	0.54	1	11/16/17 06:18	11/20/17 10:34	7440-43-9	
Chromium	12.8	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:34	7440-47-3	
Lead	7.2	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:34	7439-92-1	
Selenium	ND	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:34	7782-49-2	
Silver	ND	mg/kg	0.54	1	11/16/17 06:18	11/20/17 10:34	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/17/17 12:49	11/17/17 19:19	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:16	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-94	1	11/16/17 10:00	11/16/17 22:16	321-60-8	
p-Terphenyl-d14 (S)	68	%.	27-102	1	11/16/17 10:00	11/16/17 22:16	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.084	1		11/17/17 20:52	67-64-1	
Acrolein	ND	mg/kg	0.084	1		11/17/17 20:52	107-02-8	
Acrylonitrile	ND	mg/kg	0.084	1		11/17/17 20:52	107-13-1	
Benzene	ND	mg/kg	0.0042	1		11/17/17 20:52	71-43-2	
Bromobenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	108-86-1	
Bromochloromethane	ND	mg/kg	0.0042	1		11/17/17 20:52	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0042	1		11/17/17 20:52	75-27-4	
Bromoform	ND	mg/kg	0.0042	1		11/17/17 20:52	75-25-2	
Bromomethane	ND	mg/kg	0.0042	1		11/17/17 20:52	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.021	1		11/17/17 20:52	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB09 (12-14) Lab ID: 50184394002 Collected: 11/14/17 08:40 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	98-06-6	
Carbon disulfide	ND	mg/kg	0.0084	1		11/17/17 20:52	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0042	1		11/17/17 20:52	56-23-5	
Chlorobenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	108-90-7	
Chloroethane	ND	mg/kg	0.0042	1		11/17/17 20:52	75-00-3	
Chloroform	ND	mg/kg	0.0042	1		11/17/17 20:52	67-66-3	
Chloromethane	ND	mg/kg	0.0042	1		11/17/17 20:52	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0042	1		11/17/17 20:52	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0042	1		11/17/17 20:52	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0042	1		11/17/17 20:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	1		11/17/17 20:52	106-93-4	
Dibromomethane	ND	mg/kg	0.0042	1		11/17/17 20:52	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.084	1		11/17/17 20:52	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0042	1		11/17/17 20:52	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0042	1		11/17/17 20:52	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0042	1		11/17/17 20:52	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0042	1		11/17/17 20:52	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/17/17 20:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/17/17 20:52	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0042	1		11/17/17 20:52	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0042	1		11/17/17 20:52	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0042	1		11/17/17 20:52	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0042	1		11/17/17 20:52	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/17/17 20:52	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/17/17 20:52	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.084	1		11/17/17 20:52	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	1		11/17/17 20:52	87-68-3	
n-Hexane	ND	mg/kg	0.0042	1		11/17/17 20:52	110-54-3	
2-Hexanone	ND	mg/kg	0.084	1		11/17/17 20:52	591-78-6	
Iodomethane	ND	mg/kg	0.084	1		11/17/17 20:52	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0042	1		11/17/17 20:52	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0042	1		11/17/17 20:52	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	1		11/17/17 20:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.021	1		11/17/17 20:52	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0042	1		11/17/17 20:52	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	103-65-1	
Styrene	ND	mg/kg	0.0042	1		11/17/17 20:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/17/17 20:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/17/17 20:52	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0042	1		11/17/17 20:52	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB09 (12-14) Lab ID: 50184394002 Collected: 11/14/17 08:40 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0042	1		11/17/17 20:52	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0042	1		11/17/17 20:52	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0042	1		11/17/17 20:52	79-00-5	
Trichloroethene	ND	mg/kg	0.0042	1		11/17/17 20:52	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0042	1		11/17/17 20:52	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0042	1		11/17/17 20:52	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0042	1		11/17/17 20:52	108-67-8	
Vinyl acetate	ND	mg/kg	0.084	1		11/17/17 20:52	108-05-4	
Vinyl chloride	ND	mg/kg	0.0042	1		11/17/17 20:52	75-01-4	
Xylene (Total)	ND	mg/kg	0.0084	1		11/17/17 20:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	69-136	1		11/17/17 20:52	1868-53-7	
Toluene-d8 (S)	104	%	64-150	1		11/17/17 20:52	2037-26-5	
4-Bromofluorobenzene (S)	87	%	51-142	1		11/17/17 20:52	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	9.7	%	0.10	1		11/15/17 14:43		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB10 (0-2) Lab ID: 50184394003 Collected: 11/14/17 09:00 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.4	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:36	7440-38-2	
Barium	43.2	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:36	7440-39-3	
Cadmium	ND	mg/kg	0.54	1	11/16/17 06:18	11/20/17 10:36	7440-43-9	
Chromium	10.3	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:36	7440-47-3	
Lead	20.7	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:36	7439-92-1	
Selenium	ND	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:36	7782-49-2	
Silver	ND	mg/kg	0.54	1	11/16/17 06:18	11/20/17 10:36	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/17/17 12:49	11/17/17 19:22	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	120-12-7	
Benzo(a)anthracene	0.012	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	56-55-3	
Benzo(a)pyrene	0.016	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	50-32-8	R1
Benzo(b)fluoranthene	0.013	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	205-99-2	R1
Benzo(g,h,i)perylene	0.017	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	191-24-2	R1
Benzo(k)fluoranthene	0.013	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	207-08-9	R1
Chrysene	0.017	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	53-70-3	R1
Fluoranthene	0.022	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	86-73-7	
Indeno(1,2,3-cd)pyrene	0.011	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	193-39-5	R1
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	91-20-3	
Phenanthrene	0.012	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	85-01-8	
Pyrene	0.020	mg/kg	0.0055	1	11/16/17 10:00	11/16/17 22:32	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	56	%.	30-94	1	11/16/17 10:00	11/16/17 22:32	321-60-8	
p-Terphenyl-d14 (S)	58	%.	27-102	1	11/16/17 10:00	11/16/17 22:32	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.11	1		11/17/17 21:25	67-64-1	
Acrolein	ND	mg/kg	0.11	1		11/17/17 21:25	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		11/17/17 21:25	107-13-1	
Benzene	ND	mg/kg	0.0053	1		11/17/17 21:25	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		11/17/17 21:25	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		11/17/17 21:25	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		11/17/17 21:25	75-25-2	R1
Bromomethane	ND	mg/kg	0.0053	1		11/17/17 21:25	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.027	1		11/17/17 21:25	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB10 (0-2) Lab ID: 50184394003 Collected: 11/14/17 09:00 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		11/17/17 21:25	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		11/17/17 21:25	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		11/17/17 21:25	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		11/17/17 21:25	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		11/17/17 21:25	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		11/17/17 21:25	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		11/17/17 21:25	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		11/17/17 21:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0053	1		11/17/17 21:25	106-93-4	
Dibromomethane	ND	mg/kg	0.0053	1		11/17/17 21:25	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		11/17/17 21:25	110-57-6	R1
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		11/17/17 21:25	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		11/17/17 21:25	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		11/17/17 21:25	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		11/17/17 21:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		11/17/17 21:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		11/17/17 21:25	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		11/17/17 21:25	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		11/17/17 21:25	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		11/17/17 21:25	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		11/17/17 21:25	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		11/17/17 21:25	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		11/17/17 21:25	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		11/17/17 21:25	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0053	1		11/17/17 21:25	87-68-3	
n-Hexane	ND	mg/kg	0.0053	1		11/17/17 21:25	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1		11/17/17 21:25	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		11/17/17 21:25	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		11/17/17 21:25	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		11/17/17 21:25	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		11/17/17 21:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		11/17/17 21:25	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		11/17/17 21:25	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	103-65-1	
Styrene	ND	mg/kg	0.0053	1		11/17/17 21:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		11/17/17 21:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		11/17/17 21:25	79-34-5	R1
Tetrachloroethene	ND	mg/kg	0.0053	1		11/17/17 21:25	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB10 (0-2)** Lab ID: **50184394003** Collected: 11/14/17 09:00 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0053	1		11/17/17 21:25	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		11/17/17 21:25	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		11/17/17 21:25	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		11/17/17 21:25	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		11/17/17 21:25	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0053	1		11/17/17 21:25	96-18-4	R1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		11/17/17 21:25	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		11/17/17 21:25	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		11/17/17 21:25	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		11/17/17 21:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	69-136	1		11/17/17 21:25	1868-53-7	
Toluene-d8 (S)	120	%	64-150	1		11/17/17 21:25	2037-26-5	
4-Bromofluorobenzene (S)	75	%	51-142	1		11/17/17 21:25	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	8.8	%	0.10	1		11/15/17 14:43		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB10 (14-16)** Lab ID: **50184394004** Collected: 11/14/17 09:15 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.8	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:53	7440-38-2	
Barium	75.1	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:53	7440-39-3	
Cadmium	ND	mg/kg	0.60	1	11/16/17 06:18	11/20/17 10:53	7440-43-9	
Chromium	15.6	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:53	7440-47-3	
Lead	9.2	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:53	7439-92-1	
Selenium	ND	mg/kg	1.2	1	11/16/17 06:18	11/20/17 10:53	7782-49-2	
Silver	ND	mg/kg	0.60	1	11/16/17 06:18	11/20/17 10:53	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/17/17 12:49	11/17/17 19:28	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	83-32-9	
Acenaphthylene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	208-96-8	
Anthracene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	207-08-9	
Chrysene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	53-70-3	
Fluoranthene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	206-44-0	
Fluorene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	91-57-6	
Naphthalene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	91-20-3	
Phenanthrene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	85-01-8	
Pyrene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/16/17 23:22	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	51	%.	30-94	1	11/16/17 10:00	11/16/17 23:22	321-60-8	
p-Terphenyl-d14 (S)	55	%.	27-102	1	11/16/17 10:00	11/16/17 23:22	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.11	1		11/21/17 01:32	67-64-1	
Acrolein	ND	mg/kg	0.11	1		11/21/17 01:32	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		11/21/17 01:32	107-13-1	
Benzene	ND	mg/kg	0.0056	1		11/21/17 01:32	71-43-2	
Bromobenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	108-86-1	
Bromochloromethane	ND	mg/kg	0.0056	1		11/21/17 01:32	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0056	1		11/21/17 01:32	75-27-4	
Bromoform	ND	mg/kg	0.0056	1		11/21/17 01:32	75-25-2	
Bromomethane	ND	mg/kg	0.0056	1		11/21/17 01:32	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.028	1		11/21/17 01:32	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB10 (14-16) Lab ID: 50184394004 Collected: 11/14/17 09:15 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		11/21/17 01:32	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0056	1		11/21/17 01:32	56-23-5	
Chlorobenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	108-90-7	
Chloroethane	ND	mg/kg	0.0056	1		11/21/17 01:32	75-00-3	
Chloroform	ND	mg/kg	0.0056	1		11/21/17 01:32	67-66-3	
Chloromethane	ND	mg/kg	0.0056	1		11/21/17 01:32	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0056	1		11/21/17 01:32	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0056	1		11/21/17 01:32	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0056	1		11/21/17 01:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0056	1		11/21/17 01:32	106-93-4	
Dibromomethane	ND	mg/kg	0.0056	1		11/21/17 01:32	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		11/21/17 01:32	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0056	1		11/21/17 01:32	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0056	1		11/21/17 01:32	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0056	1		11/21/17 01:32	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0056	1		11/21/17 01:32	75-35-4	
cis-1,2-Dichloroethene	0.026	mg/kg	0.0056	1		11/21/17 01:32	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0056	1		11/21/17 01:32	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0056	1		11/21/17 01:32	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0056	1		11/21/17 01:32	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0056	1		11/21/17 01:32	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0056	1		11/21/17 01:32	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0056	1		11/21/17 01:32	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0056	1		11/21/17 01:32	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		11/21/17 01:32	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0056	1		11/21/17 01:32	87-68-3	
n-Hexane	ND	mg/kg	0.0056	1		11/21/17 01:32	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1		11/21/17 01:32	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		11/21/17 01:32	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0056	1		11/21/17 01:32	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0056	1		11/21/17 01:32	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1		11/21/17 01:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.028	1		11/21/17 01:32	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0056	1		11/21/17 01:32	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	103-65-1	
Styrene	ND	mg/kg	0.0056	1		11/21/17 01:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0056	1		11/21/17 01:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0056	1		11/21/17 01:32	79-34-5	
Tetrachloroethene	0.14	mg/kg	0.0056	1		11/21/17 01:32	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB10 (14-16)** Lab ID: **50184394004** Collected: 11/14/17 09:15 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0056	1		11/21/17 01:32	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0056	1		11/21/17 01:32	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0056	1		11/21/17 01:32	79-00-5	
Trichloroethene	0.030	mg/kg	0.0056	1		11/21/17 01:32	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0056	1		11/21/17 01:32	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0056	1		11/21/17 01:32	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0056	1		11/21/17 01:32	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		11/21/17 01:32	108-05-4	
Vinyl chloride	ND	mg/kg	0.0056	1		11/21/17 01:32	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		11/21/17 01:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	69-136	1		11/21/17 01:32	1868-53-7	
Toluene-d8 (S)	100	%	64-150	1		11/21/17 01:32	2037-26-5	
4-Bromofluorobenzene (S)	97	%	51-142	1		11/21/17 01:32	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	20.4	%	0.10	1		11/15/17 14:43		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB11 (0-2) Lab ID: 50184394005 Collected: 11/14/17 10:00 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.3	mg/kg	0.91	1	11/16/17 06:18	11/20/17 10:55	7440-38-2	
Barium	30.5	mg/kg	0.91	1	11/16/17 06:18	11/20/17 10:55	7440-39-3	
Cadmium	ND	mg/kg	0.45	1	11/16/17 06:18	11/20/17 10:55	7440-43-9	
Chromium	10.5	mg/kg	0.91	1	11/16/17 06:18	11/20/17 10:55	7440-47-3	
Lead	25.0	mg/kg	0.91	1	11/16/17 06:18	11/20/17 10:55	7439-92-1	
Selenium	ND	mg/kg	0.91	1	11/16/17 06:18	11/20/17 10:55	7782-49-2	
Silver	ND	mg/kg	0.45	1	11/16/17 06:18	11/20/17 10:55	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.21	1	11/17/17 12:49	11/17/17 19:36	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	0.033	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	83-32-9	
Acenaphthylene	ND	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	208-96-8	
Anthracene	0.094	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	120-12-7	
Benzo(a)anthracene	0.22	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	56-55-3	
Benzo(a)pyrene	0.19	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	50-32-8	
Benzo(b)fluoranthene	0.16	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	205-99-2	
Benzo(g,h,i)perylene	0.13	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	191-24-2	
Benzo(k)fluoranthene	0.18	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	207-08-9	
Chrysene	0.27	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	218-01-9	
Dibenz(a,h)anthracene	0.038	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	53-70-3	
Fluoranthene	0.60	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	206-44-0	
Fluorene	0.030	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	86-73-7	
Indeno(1,2,3-cd)pyrene	0.11	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	91-57-6	
Naphthalene	ND	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	91-20-3	ED
Phenanthrene	0.47	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	85-01-8	
Pyrene	0.51	mg/kg	0.027	5	11/16/17 10:00	11/16/17 23:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	55	%.	30-94	5	11/16/17 10:00	11/16/17 23:38	321-60-8	
p-Terphenyl-d14 (S)	62	%.	27-102	5	11/16/17 10:00	11/16/17 23:38	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.10	1		11/21/17 02:04	67-64-1	
Acrolein	ND	mg/kg	0.10	1		11/21/17 02:04	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		11/21/17 02:04	107-13-1	
Benzene	ND	mg/kg	0.0050	1		11/21/17 02:04	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		11/21/17 02:04	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		11/21/17 02:04	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		11/21/17 02:04	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		11/21/17 02:04	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/21/17 02:04	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB11 (0-2) Lab ID: 50184394005 Collected: 11/14/17 10:00 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		11/21/17 02:04	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		11/21/17 02:04	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		11/21/17 02:04	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		11/21/17 02:04	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		11/21/17 02:04	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		11/21/17 02:04	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		11/21/17 02:04	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		11/21/17 02:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		11/21/17 02:04	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		11/21/17 02:04	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/21/17 02:04	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		11/21/17 02:04	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		11/21/17 02:04	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		11/21/17 02:04	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		11/21/17 02:04	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/21/17 02:04	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/21/17 02:04	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		11/21/17 02:04	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		11/21/17 02:04	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		11/21/17 02:04	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		11/21/17 02:04	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/21/17 02:04	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/21/17 02:04	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		11/21/17 02:04	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		11/21/17 02:04	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		11/21/17 02:04	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		11/21/17 02:04	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		11/21/17 02:04	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		11/21/17 02:04	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		11/21/17 02:04	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/21/17 02:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/21/17 02:04	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		11/21/17 02:04	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	103-65-1	
Styrene	ND	mg/kg	0.0050	1		11/21/17 02:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/21/17 02:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/21/17 02:04	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		11/21/17 02:04	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB11 (0-2)** Lab ID: **50184394005** Collected: 11/14/17 10:00 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0050	1		11/21/17 02:04	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		11/21/17 02:04	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		11/21/17 02:04	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		11/21/17 02:04	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		11/21/17 02:04	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		11/21/17 02:04	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		11/21/17 02:04	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		11/21/17 02:04	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		11/21/17 02:04	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		11/21/17 02:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	69-136	1		11/21/17 02:04	1868-53-7	
Toluene-d8 (S)	107	%	64-150	1		11/21/17 02:04	2037-26-5	
4-Bromofluorobenzene (S)	90	%	51-142	1		11/21/17 02:04	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	6.1	%	0.10	1		11/15/17 14:43		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB11 (14-16)** Lab ID: **50184394006** Collected: 11/14/17 10:15 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.2	mg/kg	1.3	1	11/16/17 06:18	11/20/17 11:00	7440-38-2	
Barium	70.0	mg/kg	1.3	1	11/16/17 06:18	11/20/17 11:00	7440-39-3	
Cadmium	ND	mg/kg	0.64	1	11/16/17 06:18	11/20/17 11:00	7440-43-9	
Chromium	11.9	mg/kg	1.3	1	11/16/17 06:18	11/20/17 11:00	7440-47-3	
Lead	7.1	mg/kg	1.3	1	11/16/17 06:18	11/20/17 11:00	7439-92-1	
Selenium	ND	mg/kg	1.3	1	11/16/17 06:18	11/20/17 11:00	7782-49-2	
Silver	ND	mg/kg	0.64	1	11/16/17 06:18	11/20/17 11:00	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.26	1	11/17/17 12:49	11/17/17 19:39	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	83-32-9	
Acenaphthylene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	208-96-8	
Anthracene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	207-08-9	
Chrysene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	53-70-3	
Fluoranthene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	206-44-0	
Fluorene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	91-57-6	
Naphthalene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	91-20-3	
Phenanthrene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	85-01-8	
Pyrene	ND	mg/kg	0.0069	1	11/16/17 10:00	11/17/17 00:28	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	50	%.	30-94	1	11/16/17 10:00	11/17/17 00:28	321-60-8	
p-Terphenyl-d14 (S)	46	%.	27-102	1	11/16/17 10:00	11/17/17 00:28	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.12	1		11/21/17 02:36	67-64-1	
Acrolein	ND	mg/kg	0.12	1		11/21/17 02:36	107-02-8	
Acrylonitrile	ND	mg/kg	0.12	1		11/21/17 02:36	107-13-1	
Benzene	ND	mg/kg	0.0061	1		11/21/17 02:36	71-43-2	
Bromobenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	108-86-1	
Bromochloromethane	ND	mg/kg	0.0061	1		11/21/17 02:36	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0061	1		11/21/17 02:36	75-27-4	
Bromoform	ND	mg/kg	0.0061	1		11/21/17 02:36	75-25-2	
Bromomethane	ND	mg/kg	0.0061	1		11/21/17 02:36	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.030	1		11/21/17 02:36	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB11 (14-16) Lab ID: 50184394006 Collected: 11/14/17 10:15 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	98-06-6	
Carbon disulfide	ND	mg/kg	0.012	1		11/21/17 02:36	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0061	1		11/21/17 02:36	56-23-5	
Chlorobenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	108-90-7	
Chloroethane	ND	mg/kg	0.0061	1		11/21/17 02:36	75-00-3	
Chloroform	ND	mg/kg	0.0061	1		11/21/17 02:36	67-66-3	
Chloromethane	ND	mg/kg	0.0061	1		11/21/17 02:36	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0061	1		11/21/17 02:36	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0061	1		11/21/17 02:36	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0061	1		11/21/17 02:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0061	1		11/21/17 02:36	106-93-4	
Dibromomethane	ND	mg/kg	0.0061	1		11/21/17 02:36	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.12	1		11/21/17 02:36	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0061	1		11/21/17 02:36	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0061	1		11/21/17 02:36	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0061	1		11/21/17 02:36	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0061	1		11/21/17 02:36	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0061	1		11/21/17 02:36	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0061	1		11/21/17 02:36	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0061	1		11/21/17 02:36	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0061	1		11/21/17 02:36	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0061	1		11/21/17 02:36	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0061	1		11/21/17 02:36	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0061	1		11/21/17 02:36	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0061	1		11/21/17 02:36	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.12	1		11/21/17 02:36	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0061	1		11/21/17 02:36	87-68-3	
n-Hexane	ND	mg/kg	0.0061	1		11/21/17 02:36	110-54-3	
2-Hexanone	ND	mg/kg	0.12	1		11/21/17 02:36	591-78-6	
Iodomethane	ND	mg/kg	0.12	1		11/21/17 02:36	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0061	1		11/21/17 02:36	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0061	1		11/21/17 02:36	99-87-6	
Methylene Chloride	ND	mg/kg	0.024	1		11/21/17 02:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.030	1		11/21/17 02:36	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0061	1		11/21/17 02:36	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	103-65-1	
Styrene	ND	mg/kg	0.0061	1		11/21/17 02:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0061	1		11/21/17 02:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0061	1		11/21/17 02:36	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0061	1		11/21/17 02:36	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB11 (14-16)** Lab ID: **50184394006** Collected: 11/14/17 10:15 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0061	1		11/21/17 02:36	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0061	1		11/21/17 02:36	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0061	1		11/21/17 02:36	79-00-5	
Trichloroethene	ND	mg/kg	0.0061	1		11/21/17 02:36	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0061	1		11/21/17 02:36	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0061	1		11/21/17 02:36	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0061	1		11/21/17 02:36	108-67-8	
Vinyl acetate	ND	mg/kg	0.12	1		11/21/17 02:36	108-05-4	
Vinyl chloride	ND	mg/kg	0.0061	1		11/21/17 02:36	75-01-4	
Xylene (Total)	ND	mg/kg	0.012	1		11/21/17 02:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	69-136	1		11/21/17 02:36	1868-53-7	
Toluene-d8 (S)	104	%	64-150	1		11/21/17 02:36	2037-26-5	
4-Bromofluorobenzene (S)	86	%	51-142	1		11/21/17 02:36	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	27.3	%	0.10	1		11/15/17 14:43		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB12 (0-2) Lab ID: 50184394007 Collected: 11/14/17 10:30 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.1	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:02	7440-38-2	
Barium	71.2	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:02	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	11/16/17 06:18	11/20/17 11:02	7440-43-9	
Chromium	12.9	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:02	7440-47-3	
Lead	94.3	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:02	7439-92-1	
Selenium	ND	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:02	7782-49-2	
Silver	ND	mg/kg	0.55	1	11/16/17 06:18	11/20/17 11:02	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/17/17 12:49	11/17/17 19:41	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	83-32-9	
Acenaphthylene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	208-96-8	
Anthracene	0.012	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	120-12-7	
Benzo(a)anthracene	0.042	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	56-55-3	
Benzo(a)pyrene	0.039	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	50-32-8	
Benzo(b)fluoranthene	0.030	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	205-99-2	
Benzo(g,h,i)perylene	0.021	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	191-24-2	
Benzo(k)fluoranthene	0.033	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	207-08-9	
Chrysene	0.045	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	218-01-9	
Dibenz(a,h)anthracene	0.0074	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	53-70-3	
Fluoranthene	0.096	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	206-44-0	
Fluorene	0.0088	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	86-73-7	
Indeno(1,2,3-cd)pyrene	0.019	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	193-39-5	
1-Methylnaphthalene	0.013	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	90-12-0	N2
2-Methylnaphthalene	0.023	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	91-57-6	
Naphthalene	0.0089	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	91-20-3	
Phenanthrene	0.064	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	85-01-8	
Pyrene	0.075	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 00:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	56	%.	30-94	1	11/16/17 10:00	11/17/17 00:44	321-60-8	
p-Terphenyl-d14 (S)	64	%.	27-102	1	11/16/17 10:00	11/17/17 00:44	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.095	1		11/21/17 03:08	67-64-1	
Acrolein	ND	mg/kg	0.095	1		11/21/17 03:08	107-02-8	
Acrylonitrile	ND	mg/kg	0.095	1		11/21/17 03:08	107-13-1	
Benzene	ND	mg/kg	0.0048	1		11/21/17 03:08	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1		11/21/17 03:08	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1		11/21/17 03:08	75-27-4	
Bromoform	ND	mg/kg	0.0048	1		11/21/17 03:08	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1		11/21/17 03:08	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		11/21/17 03:08	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB12 (0-2) Lab ID: 50184394007 Collected: 11/14/17 10:30 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	98-06-6	
Carbon disulfide	ND	mg/kg	0.0095	1		11/21/17 03:08	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1		11/21/17 03:08	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1		11/21/17 03:08	75-00-3	
Chloroform	ND	mg/kg	0.0048	1		11/21/17 03:08	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1		11/21/17 03:08	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1		11/21/17 03:08	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	1		11/21/17 03:08	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	1		11/21/17 03:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		11/21/17 03:08	106-93-4	
Dibromomethane	ND	mg/kg	0.0048	1		11/21/17 03:08	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.095	1		11/21/17 03:08	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		11/21/17 03:08	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1		11/21/17 03:08	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1		11/21/17 03:08	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	1		11/21/17 03:08	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/21/17 03:08	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/21/17 03:08	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1		11/21/17 03:08	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1		11/21/17 03:08	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1		11/21/17 03:08	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1		11/21/17 03:08	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/21/17 03:08	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/21/17 03:08	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.095	1		11/21/17 03:08	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		11/21/17 03:08	87-68-3	
n-Hexane	ND	mg/kg	0.0048	1		11/21/17 03:08	110-54-3	
2-Hexanone	ND	mg/kg	0.095	1		11/21/17 03:08	591-78-6	
Iodomethane	ND	mg/kg	0.095	1		11/21/17 03:08	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		11/21/17 03:08	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1		11/21/17 03:08	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		11/21/17 03:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		11/21/17 03:08	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		11/21/17 03:08	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	103-65-1	
Styrene	ND	mg/kg	0.0048	1		11/21/17 03:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/21/17 03:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/21/17 03:08	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0048	1		11/21/17 03:08	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB12 (0-2)** Lab ID: **50184394007** Collected: 11/14/17 10:30 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0048	1		11/21/17 03:08	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		11/21/17 03:08	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		11/21/17 03:08	79-00-5	
Trichloroethene	0.0083	mg/kg	0.0048	1		11/21/17 03:08	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1		11/21/17 03:08	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		11/21/17 03:08	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		11/21/17 03:08	108-67-8	
Vinyl acetate	ND	mg/kg	0.095	1		11/21/17 03:08	108-05-4	
Vinyl chloride	ND	mg/kg	0.0048	1		11/21/17 03:08	75-01-4	
Xylene (Total)	ND	mg/kg	0.0095	1		11/21/17 03:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	69-136	1		11/21/17 03:08	1868-53-7	
Toluene-d8 (S)	105	%	64-150	1		11/21/17 03:08	2037-26-5	
4-Bromofluorobenzene (S)	96	%	51-142	1		11/21/17 03:08	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	15.2	%	0.10	1		11/15/17 14:43		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB12 (10-12) Lab ID: 50184394008 Collected: 11/14/17 10:45 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.4	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:04	7440-38-2	
Barium	53.4	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:04	7440-39-3	
Cadmium	ND	mg/kg	0.54	1	11/16/17 06:18	11/20/17 11:04	7440-43-9	
Chromium	14.4	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:04	7440-47-3	
Lead	8.9	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:04	7439-92-1	
Selenium	ND	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:04	7782-49-2	
Silver	ND	mg/kg	0.54	1	11/16/17 06:18	11/20/17 11:04	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/17/17 12:49	11/17/17 19:43	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	83-32-9	
Acenaphthylene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	208-96-8	
Anthracene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	207-08-9	
Chrysene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	53-70-3	
Fluoranthene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	206-44-0	
Fluorene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	91-57-6	
Naphthalene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	91-20-3	
Phenanthrene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	85-01-8	
Pyrene	ND	mg/kg	0.0059	1	11/16/17 10:00	11/17/17 01:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-94	1	11/16/17 10:00	11/17/17 01:01	321-60-8	
p-Terphenyl-d14 (S)	69	%.	27-102	1	11/16/17 10:00	11/17/17 01:01	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.087	1		11/20/17 18:33	67-64-1	
Acrolein	ND	mg/kg	0.087	1		11/20/17 18:33	107-02-8	
Acrylonitrile	ND	mg/kg	0.087	1		11/20/17 18:33	107-13-1	
Benzene	ND	mg/kg	0.0044	1		11/20/17 18:33	71-43-2	
Bromobenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	108-86-1	
Bromochloromethane	ND	mg/kg	0.0044	1		11/20/17 18:33	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0044	1		11/20/17 18:33	75-27-4	
Bromoform	ND	mg/kg	0.0044	1		11/20/17 18:33	75-25-2	
Bromomethane	ND	mg/kg	0.0044	1		11/20/17 18:33	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.022	1		11/20/17 18:33	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB12 (10-12) Lab ID: 50184394008 Collected: 11/14/17 10:45 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	98-06-6	
Carbon disulfide	ND	mg/kg	0.0087	1		11/20/17 18:33	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0044	1		11/20/17 18:33	56-23-5	
Chlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	108-90-7	
Chloroethane	ND	mg/kg	0.0044	1		11/20/17 18:33	75-00-3	
Chloroform	ND	mg/kg	0.0044	1		11/20/17 18:33	67-66-3	
Chloromethane	ND	mg/kg	0.0044	1		11/20/17 18:33	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0044	1		11/20/17 18:33	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0044	1		11/20/17 18:33	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0044	1		11/20/17 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0044	1		11/20/17 18:33	106-93-4	
Dibromomethane	ND	mg/kg	0.0044	1		11/20/17 18:33	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.087	1		11/20/17 18:33	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0044	1		11/20/17 18:33	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0044	1		11/20/17 18:33	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0044	1		11/20/17 18:33	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 18:33	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 18:33	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 18:33	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 18:33	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 18:33	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.087	1		11/20/17 18:33	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0044	1		11/20/17 18:33	87-68-3	
n-Hexane	ND	mg/kg	0.0044	1		11/20/17 18:33	110-54-3	
2-Hexanone	ND	mg/kg	0.087	1		11/20/17 18:33	591-78-6	
Iodomethane	ND	mg/kg	0.087	1		11/20/17 18:33	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0044	1		11/20/17 18:33	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0044	1		11/20/17 18:33	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	1		11/20/17 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		11/20/17 18:33	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0044	1		11/20/17 18:33	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	103-65-1	
Styrene	ND	mg/kg	0.0044	1		11/20/17 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/20/17 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/20/17 18:33	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0044	1		11/20/17 18:33	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB12 (10-12)** Lab ID: **50184394008** Collected: 11/14/17 10:45 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0044	1		11/20/17 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0044	1		11/20/17 18:33	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0044	1		11/20/17 18:33	79-00-5	
Trichloroethene	ND	mg/kg	0.0044	1		11/20/17 18:33	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0044	1		11/20/17 18:33	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0044	1		11/20/17 18:33	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:33	108-67-8	
Vinyl acetate	ND	mg/kg	0.087	1		11/20/17 18:33	108-05-4	
Vinyl chloride	ND	mg/kg	0.0044	1		11/20/17 18:33	75-01-4	
Xylene (Total)	ND	mg/kg	0.0087	1		11/20/17 18:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%	69-136	1		11/20/17 18:33	1868-53-7	
Toluene-d8 (S)	100	%	64-150	1		11/20/17 18:33	2037-26-5	
4-Bromofluorobenzene (S)	89	%	51-142	1		11/20/17 18:33	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	15.8	%	0.10	1		11/15/17 14:43		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB13 (0-2) Lab ID: 50184394009 Collected: 11/14/17 11:00 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.6	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:06	7440-38-2	
Barium	59.4	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:06	7440-39-3	
Cadmium	ND	mg/kg	0.51	1	11/16/17 06:18	11/20/17 11:06	7440-43-9	
Chromium	13.5	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:06	7440-47-3	
Lead	112	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:06	7439-92-1	
Selenium	ND	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:06	7782-49-2	
Silver	ND	mg/kg	0.51	1	11/16/17 06:18	11/20/17 11:06	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/17/17 12:54	11/21/17 09:08	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	83-32-9	
Acenaphthylene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	208-96-8	
Anthracene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	120-12-7	
Benzo(a)anthracene	0.012	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	56-55-3	
Benzo(a)pyrene	0.0099	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	50-32-8	
Benzo(b)fluoranthene	0.0099	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	191-24-2	
Benzo(k)fluoranthene	0.0097	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	207-08-9	
Chrysene	0.023	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	53-70-3	
Fluoranthene	0.027	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	206-44-0	
Fluorene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	91-57-6	
Naphthalene	ND	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	91-20-3	
Phenanthrene	0.021	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	85-01-8	
Pyrene	0.020	mg/kg	0.0058	1	11/16/17 10:00	11/17/17 01:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	61	%.	30-94	1	11/16/17 10:00	11/17/17 01:17	321-60-8	
p-Terphenyl-d14 (S)	71	%.	27-102	1	11/16/17 10:00	11/17/17 01:17	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	2.4	25		11/20/17 19:05	67-64-1	
Acrolein	ND	mg/kg	2.4	25		11/20/17 19:05	107-02-8	
Acrylonitrile	ND	mg/kg	2.4	25		11/20/17 19:05	107-13-1	
Benzene	ND	mg/kg	0.12	25		11/20/17 19:05	71-43-2	1d
Bromobenzene	ND	mg/kg	0.12	25		11/20/17 19:05	108-86-1	
Bromochloromethane	ND	mg/kg	0.12	25		11/20/17 19:05	74-97-5	
Bromodichloromethane	ND	mg/kg	0.12	25		11/20/17 19:05	75-27-4	
Bromoform	ND	mg/kg	0.12	25		11/20/17 19:05	75-25-2	
Bromomethane	ND	mg/kg	0.12	25		11/20/17 19:05	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.60	25		11/20/17 19:05	78-93-3	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB13 (0-2) Lab ID: 50184394009 Collected: 11/14/17 11:00 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.12	25		11/20/17 19:05	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.12	25		11/20/17 19:05	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.12	25		11/20/17 19:05	98-06-6	
Carbon disulfide	ND	mg/kg	0.24	25		11/20/17 19:05	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.12	25		11/20/17 19:05	56-23-5	
Chlorobenzene	ND	mg/kg	0.12	25		11/20/17 19:05	108-90-7	
Chloroethane	ND	mg/kg	0.12	25		11/20/17 19:05	75-00-3	
Chloroform	ND	mg/kg	0.12	25		11/20/17 19:05	67-66-3	
Chloromethane	ND	mg/kg	0.12	25		11/20/17 19:05	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.12	25		11/20/17 19:05	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.12	25		11/20/17 19:05	106-43-4	
Dibromochloromethane	ND	mg/kg	0.12	25		11/20/17 19:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.12	25		11/20/17 19:05	106-93-4	
Dibromomethane	ND	mg/kg	0.12	25		11/20/17 19:05	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.12	25		11/20/17 19:05	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.12	25		11/20/17 19:05	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.12	25		11/20/17 19:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	2.4	25		11/20/17 19:05	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.12	25		11/20/17 19:05	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.12	25		11/20/17 19:05	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.12	25		11/20/17 19:05	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.12	25		11/20/17 19:05	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.12	25		11/20/17 19:05	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.12	25		11/20/17 19:05	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.12	25		11/20/17 19:05	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.12	25		11/20/17 19:05	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.12	25		11/20/17 19:05	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.12	25		11/20/17 19:05	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.12	25		11/20/17 19:05	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.12	25		11/20/17 19:05	10061-02-6	
Ethylbenzene	ND	mg/kg	0.12	25		11/20/17 19:05	100-41-4	
Ethyl methacrylate	ND	mg/kg	2.4	25		11/20/17 19:05	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.12	25		11/20/17 19:05	87-68-3	
n-Hexane	ND	mg/kg	0.12	25		11/20/17 19:05	110-54-3	
2-Hexanone	ND	mg/kg	2.4	25		11/20/17 19:05	591-78-6	
Iodomethane	ND	mg/kg	2.4	25		11/20/17 19:05	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.12	25		11/20/17 19:05	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.12	25		11/20/17 19:05	99-87-6	
Methylene Chloride	ND	mg/kg	0.48	25		11/20/17 19:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.60	25		11/20/17 19:05	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.12	25		11/20/17 19:05	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.12	25		11/20/17 19:05	103-65-1	
Styrene	ND	mg/kg	0.12	25		11/20/17 19:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.12	25		11/20/17 19:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.12	25		11/20/17 19:05	79-34-5	
Tetrachloroethene	3.8	mg/kg	0.12	25		11/20/17 19:05	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB13 (0-2)** Lab ID: **50184394009** Collected: 11/14/17 11:00 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.12	25		11/20/17 19:05	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.12	25		11/20/17 19:05	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.12	25		11/20/17 19:05	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.12	25		11/20/17 19:05	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.12	25		11/20/17 19:05	79-00-5	
Trichloroethene	ND	mg/kg	0.12	25		11/20/17 19:05	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.12	25		11/20/17 19:05	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.12	25		11/20/17 19:05	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.12	25		11/20/17 19:05	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.12	25		11/20/17 19:05	108-67-8	
Vinyl acetate	ND	mg/kg	2.4	25		11/20/17 19:05	108-05-4	
Vinyl chloride	ND	mg/kg	0.12	25		11/20/17 19:05	75-01-4	
Xylene (Total)	ND	mg/kg	0.24	25		11/20/17 19:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	69-136	25		11/20/17 19:05	1868-53-7	D4
Toluene-d8 (S)	98	%	64-150	25		11/20/17 19:05	2037-26-5	
4-Bromofluorobenzene (S)	94	%	51-142	25		11/20/17 19:05	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	13.7	%	0.10	1		11/15/17 14:44		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB13 (26-28) Lab ID: 50184394010 Collected: 11/14/17 11:45 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.1	mg/kg	0.94	1	11/16/17 06:18	11/20/17 11:09	7440-38-2	
Barium	41.7	mg/kg	0.94	1	11/16/17 06:18	11/20/17 11:09	7440-39-3	
Cadmium	ND	mg/kg	0.47	1	11/16/17 06:18	11/20/17 11:09	7440-43-9	
Chromium	10.5	mg/kg	0.94	1	11/16/17 06:18	11/20/17 11:09	7440-47-3	
Lead	5.7	mg/kg	0.94	1	11/16/17 06:18	11/20/17 11:09	7439-92-1	
Selenium	ND	mg/kg	0.94	1	11/16/17 06:18	11/20/17 11:09	7782-49-2	
Silver	ND	mg/kg	0.47	1	11/16/17 06:18	11/20/17 11:09	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/17/17 12:54	11/21/17 09:14	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	83-32-9	
Acenaphthylene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	208-96-8	
Anthracene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	207-08-9	
Chrysene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	53-70-3	
Fluoranthene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	206-44-0	
Fluorene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	91-57-6	
Naphthalene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	91-20-3	
Phenanthrene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	85-01-8	
Pyrene	ND	mg/kg	0.0056	1	11/16/17 10:00	11/17/17 01:34	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52	%.	30-94	1	11/16/17 10:00	11/17/17 01:34	321-60-8	
p-Terphenyl-d14 (S)	53	%.	27-102	1	11/16/17 10:00	11/17/17 01:34	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.080	1		11/20/17 19:37	67-64-1	
Acrolein	ND	mg/kg	0.080	1		11/20/17 19:37	107-02-8	
Acrylonitrile	ND	mg/kg	0.080	1		11/20/17 19:37	107-13-1	
Benzene	ND	mg/kg	0.0040	1		11/20/17 19:37	71-43-2	
Bromobenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	108-86-1	
Bromochloromethane	ND	mg/kg	0.0040	1		11/20/17 19:37	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0040	1		11/20/17 19:37	75-27-4	
Bromoform	ND	mg/kg	0.0040	1		11/20/17 19:37	75-25-2	
Bromomethane	ND	mg/kg	0.0040	1		11/20/17 19:37	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.020	1		11/20/17 19:37	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB13 (26-28) Lab ID: 50184394010 Collected: 11/14/17 11:45 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	98-06-6	
Carbon disulfide	ND	mg/kg	0.0080	1		11/20/17 19:37	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0040	1		11/20/17 19:37	56-23-5	
Chlorobenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	108-90-7	
Chloroethane	ND	mg/kg	0.0040	1		11/20/17 19:37	75-00-3	
Chloroform	ND	mg/kg	0.0040	1		11/20/17 19:37	67-66-3	
Chloromethane	ND	mg/kg	0.0040	1		11/20/17 19:37	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0040	1		11/20/17 19:37	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0040	1		11/20/17 19:37	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0040	1		11/20/17 19:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0040	1		11/20/17 19:37	106-93-4	
Dibromomethane	ND	mg/kg	0.0040	1		11/20/17 19:37	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.080	1		11/20/17 19:37	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0040	1		11/20/17 19:37	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0040	1		11/20/17 19:37	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0040	1		11/20/17 19:37	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0040	1		11/20/17 19:37	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0040	1		11/20/17 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0040	1		11/20/17 19:37	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0040	1		11/20/17 19:37	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0040	1		11/20/17 19:37	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0040	1		11/20/17 19:37	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0040	1		11/20/17 19:37	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0040	1		11/20/17 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0040	1		11/20/17 19:37	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.080	1		11/20/17 19:37	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0040	1		11/20/17 19:37	87-68-3	
n-Hexane	ND	mg/kg	0.0040	1		11/20/17 19:37	110-54-3	
2-Hexanone	ND	mg/kg	0.080	1		11/20/17 19:37	591-78-6	
Iodomethane	ND	mg/kg	0.080	1		11/20/17 19:37	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0040	1		11/20/17 19:37	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0040	1		11/20/17 19:37	99-87-6	
Methylene Chloride	ND	mg/kg	0.016	1		11/20/17 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.020	1		11/20/17 19:37	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0040	1		11/20/17 19:37	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	103-65-1	
Styrene	ND	mg/kg	0.0040	1		11/20/17 19:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0040	1		11/20/17 19:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0040	1		11/20/17 19:37	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0040	1		11/20/17 19:37	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB13 (26-28)** Lab ID: **50184394010** Collected: 11/14/17 11:45 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0040	1		11/20/17 19:37	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0040	1		11/20/17 19:37	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0040	1		11/20/17 19:37	79-00-5	
Trichloroethene	ND	mg/kg	0.0040	1		11/20/17 19:37	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0040	1		11/20/17 19:37	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0040	1		11/20/17 19:37	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0040	1		11/20/17 19:37	108-67-8	
Vinyl acetate	ND	mg/kg	0.080	1		11/20/17 19:37	108-05-4	
Vinyl chloride	ND	mg/kg	0.0040	1		11/20/17 19:37	75-01-4	
Xylene (Total)	ND	mg/kg	0.0080	1		11/20/17 19:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%	69-136	1		11/20/17 19:37	1868-53-7	
Toluene-d8 (S)	121	%	64-150	1		11/20/17 19:37	2037-26-5	
4-Bromofluorobenzene (S)	80	%	51-142	1		11/20/17 19:37	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	11.4	%	0.10	1		11/15/17 14:44		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB14 (0-2) Lab ID: 50184394011 Collected: 11/14/17 12:00 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.3	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:11	7440-38-2	
Barium	62.0	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:11	7440-39-3	
Cadmium	ND	mg/kg	0.58	1	11/16/17 06:18	11/20/17 11:11	7440-43-9	
Chromium	16.0	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:11	7440-47-3	
Lead	19.5	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:11	7439-92-1	
Selenium	ND	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:11	7782-49-2	
Silver	ND	mg/kg	0.58	1	11/16/17 06:18	11/20/17 11:11	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.25	1	11/17/17 12:54	11/21/17 09:17	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	208-96-8	
Anthracene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	120-12-7	
Benzo(a)anthracene	0.0094	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	191-24-2	
Benzo(k)fluoranthene	0.0064	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	207-08-9	
Chrysene	0.0089	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	53-70-3	
Fluoranthene	0.019	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	91-20-3	
Phenanthrene	0.013	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	85-01-8	
Pyrene	0.014	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 01:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	51	%.	30-94	1	11/16/17 10:00	11/17/17 01:51	321-60-8	
p-Terphenyl-d14 (S)	45	%.	27-102	1	11/16/17 10:00	11/17/17 01:51	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.096	1		11/20/17 20:09	67-64-1	
Acrolein	ND	mg/kg	0.096	1		11/20/17 20:09	107-02-8	
Acrylonitrile	ND	mg/kg	0.096	1		11/20/17 20:09	107-13-1	
Benzene	ND	mg/kg	0.0048	1		11/20/17 20:09	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1		11/20/17 20:09	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1		11/20/17 20:09	75-27-4	
Bromoform	ND	mg/kg	0.0048	1		11/20/17 20:09	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1		11/20/17 20:09	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		11/20/17 20:09	78-93-3	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB14 (0-2) Lab ID: 50184394011 Collected: 11/14/17 12:00 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	98-06-6	
Carbon disulfide	ND	mg/kg	0.0096	1		11/20/17 20:09	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1		11/20/17 20:09	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1		11/20/17 20:09	75-00-3	
Chloroform	ND	mg/kg	0.0048	1		11/20/17 20:09	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1		11/20/17 20:09	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1		11/20/17 20:09	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	1		11/20/17 20:09	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	1		11/20/17 20:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		11/20/17 20:09	106-93-4	
Dibromomethane	ND	mg/kg	0.0048	1		11/20/17 20:09	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.096	1		11/20/17 20:09	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		11/20/17 20:09	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1		11/20/17 20:09	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1		11/20/17 20:09	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	1		11/20/17 20:09	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/20/17 20:09	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/20/17 20:09	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1		11/20/17 20:09	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1		11/20/17 20:09	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1		11/20/17 20:09	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1		11/20/17 20:09	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/20/17 20:09	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/20/17 20:09	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.096	1		11/20/17 20:09	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		11/20/17 20:09	87-68-3	
n-Hexane	ND	mg/kg	0.0048	1		11/20/17 20:09	110-54-3	
2-Hexanone	ND	mg/kg	0.096	1		11/20/17 20:09	591-78-6	
Iodomethane	ND	mg/kg	0.096	1		11/20/17 20:09	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		11/20/17 20:09	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1		11/20/17 20:09	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		11/20/17 20:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		11/20/17 20:09	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		11/20/17 20:09	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	103-65-1	
Styrene	ND	mg/kg	0.0048	1		11/20/17 20:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/20/17 20:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/20/17 20:09	79-34-5	
Tetrachloroethene	0.062	mg/kg	0.0048	1		11/20/17 20:09	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB14 (0-2) **Lab ID: 50184394011** Collected: 11/14/17 12:00 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0048	1		11/20/17 20:09	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		11/20/17 20:09	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		11/20/17 20:09	79-00-5	
Trichloroethene	ND	mg/kg	0.0048	1		11/20/17 20:09	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1		11/20/17 20:09	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		11/20/17 20:09	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		11/20/17 20:09	108-67-8	
Vinyl acetate	ND	mg/kg	0.096	1		11/20/17 20:09	108-05-4	
Vinyl chloride	ND	mg/kg	0.0048	1		11/20/17 20:09	75-01-4	
Xylene (Total)	ND	mg/kg	0.0096	1		11/20/17 20:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%	69-136	1		11/20/17 20:09	1868-53-7	
Toluene-d8 (S)	98	%	64-150	1		11/20/17 20:09	2037-26-5	
4-Bromofluorobenzene (S)	87	%	51-142	1		11/20/17 20:09	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	18.4	%	0.10	1		11/15/17 14:44		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 3060A						
Chromium, Hexavalent	ND	mg/kg	9.7	4	12/14/17 11:42	12/14/17 17:46	18540-29-9	D3

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB14 (6-8) Lab ID: 50184394012 Collected: 11/14/17 12:15 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.8	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:13	7440-38-2	
Barium	34.3	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:13	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	11/16/17 06:18	11/20/17 11:13	7440-43-9	
Chromium	11.3	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:13	7440-47-3	
Lead	6.8	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:13	7439-92-1	
Selenium	ND	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:13	7782-49-2	
Silver	ND	mg/kg	0.48	1	11/16/17 06:18	11/20/17 11:13	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/17/17 12:54	11/21/17 09:19	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/16/17 10:00	11/17/17 02:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	30-94	1	11/16/17 10:00	11/17/17 02:07	321-60-8	
p-Terphenyl-d14 (S)	69	%.	27-102	1	11/16/17 10:00	11/17/17 02:07	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.084	1		11/21/17 03:40	67-64-1	
Acrolein	ND	mg/kg	0.084	1		11/21/17 03:40	107-02-8	
Acrylonitrile	ND	mg/kg	0.084	1		11/21/17 03:40	107-13-1	
Benzene	ND	mg/kg	0.0042	1		11/21/17 03:40	71-43-2	
Bromobenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	108-86-1	
Bromochloromethane	ND	mg/kg	0.0042	1		11/21/17 03:40	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0042	1		11/21/17 03:40	75-27-4	
Bromoform	ND	mg/kg	0.0042	1		11/21/17 03:40	75-25-2	
Bromomethane	ND	mg/kg	0.0042	1		11/21/17 03:40	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.021	1		11/21/17 03:40	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB14 (6-8) Lab ID: 50184394012 Collected: 11/14/17 12:15 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	98-06-6	
Carbon disulfide	ND	mg/kg	0.0084	1		11/21/17 03:40	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0042	1		11/21/17 03:40	56-23-5	
Chlorobenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	108-90-7	
Chloroethane	ND	mg/kg	0.0042	1		11/21/17 03:40	75-00-3	
Chloroform	ND	mg/kg	0.0042	1		11/21/17 03:40	67-66-3	
Chloromethane	ND	mg/kg	0.0042	1		11/21/17 03:40	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0042	1		11/21/17 03:40	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0042	1		11/21/17 03:40	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0042	1		11/21/17 03:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	1		11/21/17 03:40	106-93-4	
Dibromomethane	ND	mg/kg	0.0042	1		11/21/17 03:40	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.084	1		11/21/17 03:40	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0042	1		11/21/17 03:40	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0042	1		11/21/17 03:40	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0042	1		11/21/17 03:40	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0042	1		11/21/17 03:40	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/21/17 03:40	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/21/17 03:40	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0042	1		11/21/17 03:40	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0042	1		11/21/17 03:40	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0042	1		11/21/17 03:40	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0042	1		11/21/17 03:40	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/21/17 03:40	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/21/17 03:40	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.084	1		11/21/17 03:40	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	1		11/21/17 03:40	87-68-3	
n-Hexane	ND	mg/kg	0.0042	1		11/21/17 03:40	110-54-3	
2-Hexanone	ND	mg/kg	0.084	1		11/21/17 03:40	591-78-6	
Iodomethane	ND	mg/kg	0.084	1		11/21/17 03:40	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0042	1		11/21/17 03:40	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0042	1		11/21/17 03:40	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	1		11/21/17 03:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.021	1		11/21/17 03:40	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0042	1		11/21/17 03:40	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	103-65-1	
Styrene	ND	mg/kg	0.0042	1		11/21/17 03:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/21/17 03:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/21/17 03:40	79-34-5	
Tetrachloroethene	0.047	mg/kg	0.0042	1		11/21/17 03:40	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB14 (6-8)** Lab ID: **50184394012** Collected: 11/14/17 12:15 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0042	1		11/21/17 03:40	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0042	1		11/21/17 03:40	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0042	1		11/21/17 03:40	79-00-5	
Trichloroethene	ND	mg/kg	0.0042	1		11/21/17 03:40	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0042	1		11/21/17 03:40	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0042	1		11/21/17 03:40	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0042	1		11/21/17 03:40	108-67-8	
Vinyl acetate	ND	mg/kg	0.084	1		11/21/17 03:40	108-05-4	
Vinyl chloride	ND	mg/kg	0.0042	1		11/21/17 03:40	75-01-4	
Xylene (Total)	ND	mg/kg	0.0084	1		11/21/17 03:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	69-136	1		11/21/17 03:40	1868-53-7	
Toluene-d8 (S)	99	%	64-150	1		11/21/17 03:40	2037-26-5	
4-Bromofluorobenzene (S)	92	%	51-142	1		11/21/17 03:40	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	10.1	%	0.10	1		11/15/17 14:44		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB15 (0-2) Lab ID: 50184394013 Collected: 11/14/17 12:50 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.4	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:20	7440-38-2	
Barium	101	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:20	7440-39-3	
Cadmium	ND	mg/kg	0.52	1	11/16/17 06:18	11/20/17 11:20	7440-43-9	
Chromium	14.3	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:20	7440-47-3	
Lead	18.4	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:20	7439-92-1	
Selenium	ND	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:20	7782-49-2	
Silver	ND	mg/kg	0.52	1	11/16/17 06:18	11/20/17 11:20	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.33	mg/kg	0.23	1	11/17/17 12:54	11/21/17 09:21	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	0.079	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	83-32-9	
Acenaphthylene	0.20	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	208-96-8	
Anthracene	0.29	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	120-12-7	
Benzo(a)anthracene	0.81	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	56-55-3	
Benzo(a)pyrene	0.85	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	50-32-8	
Benzo(b)fluoranthene	0.67	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	205-99-2	
Benzo(g,h,i)perylene	0.45	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	191-24-2	
Benzo(k)fluoranthene	0.80	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	207-08-9	
Chrysene	1.0	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	218-01-9	
Dibenz(a,h)anthracene	0.15	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	53-70-3	
Fluoranthene	3.0	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	206-44-0	
Fluorene	0.10	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	86-73-7	
Indeno(1,2,3-cd)pyrene	0.43	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	193-39-5	
1-Methylnaphthalene	0.14	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	90-12-0	N2
2-Methylnaphthalene	0.14	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	91-57-6	
Naphthalene	0.31	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	91-20-3	
Phenanthrene	2.7	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	85-01-8	
Pyrene	2.2	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 02:24	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-94	1	11/16/17 10:00	11/17/17 02:24	321-60-8	
p-Terphenyl-d14 (S)	62	%.	27-102	1	11/16/17 10:00	11/17/17 02:24	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.091	1		11/21/17 04:12	67-64-1	
Acrolein	ND	mg/kg	0.091	1		11/21/17 04:12	107-02-8	
Acrylonitrile	ND	mg/kg	0.091	1		11/21/17 04:12	107-13-1	
Benzene	ND	mg/kg	0.0046	1		11/21/17 04:12	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	108-86-1	
Bromochloromethane	ND	mg/kg	0.0046	1		11/21/17 04:12	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	1		11/21/17 04:12	75-27-4	
Bromoform	ND	mg/kg	0.0046	1		11/21/17 04:12	75-25-2	
Bromomethane	ND	mg/kg	0.0046	1		11/21/17 04:12	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		11/21/17 04:12	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB15 (0-2) Lab ID: 50184394013 Collected: 11/14/17 12:50 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	98-06-6	
Carbon disulfide	ND	mg/kg	0.0091	1		11/21/17 04:12	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0046	1		11/21/17 04:12	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	108-90-7	
Chloroethane	ND	mg/kg	0.0046	1		11/21/17 04:12	75-00-3	
Chloroform	ND	mg/kg	0.0046	1		11/21/17 04:12	67-66-3	
Chloromethane	ND	mg/kg	0.0046	1		11/21/17 04:12	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	1		11/21/17 04:12	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	1		11/21/17 04:12	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0046	1		11/21/17 04:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	1		11/21/17 04:12	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	1		11/21/17 04:12	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.091	1		11/21/17 04:12	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0046	1		11/21/17 04:12	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0046	1		11/21/17 04:12	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	1		11/21/17 04:12	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	1		11/21/17 04:12	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0046	1		11/21/17 04:12	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	1		11/21/17 04:12	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	1		11/21/17 04:12	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	1		11/21/17 04:12	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	1		11/21/17 04:12	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	1		11/21/17 04:12	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	1		11/21/17 04:12	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	1		11/21/17 04:12	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.091	1		11/21/17 04:12	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	1		11/21/17 04:12	87-68-3	
n-Hexane	ND	mg/kg	0.0046	1		11/21/17 04:12	110-54-3	
2-Hexanone	ND	mg/kg	0.091	1		11/21/17 04:12	591-78-6	
Iodomethane	ND	mg/kg	0.091	1		11/21/17 04:12	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	1		11/21/17 04:12	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0046	1		11/21/17 04:12	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		11/21/17 04:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		11/21/17 04:12	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	1		11/21/17 04:12	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	103-65-1	
Styrene	ND	mg/kg	0.0046	1		11/21/17 04:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0046	1		11/21/17 04:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0046	1		11/21/17 04:12	79-34-5	
Tetrachloroethene	0.063	mg/kg	0.0046	1		11/21/17 04:12	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB15 (0-2)** Lab ID: **50184394013** Collected: 11/14/17 12:50 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0046	1		11/21/17 04:12	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0046	1		11/21/17 04:12	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0046	1		11/21/17 04:12	79-00-5	
Trichloroethene	ND	mg/kg	0.0046	1		11/21/17 04:12	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0046	1		11/21/17 04:12	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0046	1		11/21/17 04:12	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	1		11/21/17 04:12	108-67-8	
Vinyl acetate	ND	mg/kg	0.091	1		11/21/17 04:12	108-05-4	
Vinyl chloride	ND	mg/kg	0.0046	1		11/21/17 04:12	75-01-4	
Xylene (Total)	ND	mg/kg	0.0091	1		11/21/17 04:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	69-136	1		11/21/17 04:12	1868-53-7	
Toluene-d8 (S)	111	%	64-150	1		11/21/17 04:12	2037-26-5	
4-Bromofluorobenzene (S)	84	%	51-142	1		11/21/17 04:12	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	16.8	%	0.10	1		11/15/17 14:44		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB15 (8-10) Lab ID: 50184394014 Collected: 11/14/17 13:00 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.7	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:22	7440-38-2	
Barium	55.1	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:22	7440-39-3	
Cadmium	ND	mg/kg	0.57	1	11/16/17 06:18	11/20/17 11:22	7440-43-9	
Chromium	14.1	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:22	7440-47-3	
Lead	6.2	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:22	7439-92-1	
Selenium	ND	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:22	7782-49-2	
Silver	ND	mg/kg	0.57	1	11/16/17 06:18	11/20/17 11:22	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/17/17 12:54	11/21/17 09:27	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	83-32-9	
Acenaphthylene	0.0082	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	208-96-8	
Anthracene	0.0080	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	120-12-7	
Benzo(a)anthracene	0.021	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	56-55-3	
Benzo(a)pyrene	0.022	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	50-32-8	
Benzo(b)fluoranthene	0.016	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	205-99-2	
Benzo(g,h,i)perylene	0.012	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	191-24-2	
Benzo(k)fluoranthene	0.025	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	207-08-9	
Chrysene	0.028	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	53-70-3	
Fluoranthene	0.067	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	206-44-0	
Fluorene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	86-73-7	
Indeno(1,2,3-cd)pyrene	0.013	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	91-57-6	
Naphthalene	ND	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	91-20-3	
Phenanthrene	0.047	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	85-01-8	
Pyrene	0.051	mg/kg	0.0062	1	11/16/17 10:00	11/17/17 02:40	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	30-94	1	11/16/17 10:00	11/17/17 02:40	321-60-8	
p-Terphenyl-d14 (S)	68	%.	27-102	1	11/16/17 10:00	11/17/17 02:40	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	4.9	50		11/20/17 20:41	67-64-1	
Acrolein	ND	mg/kg	4.9	50		11/20/17 20:41	107-02-8	
Acrylonitrile	ND	mg/kg	4.9	50		11/20/17 20:41	107-13-1	
Benzene	ND	mg/kg	0.25	50		11/20/17 20:41	71-43-2	1d
Bromobenzene	ND	mg/kg	0.25	50		11/20/17 20:41	108-86-1	
Bromochloromethane	ND	mg/kg	0.25	50		11/20/17 20:41	74-97-5	
Bromodichloromethane	ND	mg/kg	0.25	50		11/20/17 20:41	75-27-4	
Bromoform	ND	mg/kg	0.25	50		11/20/17 20:41	75-25-2	
Bromomethane	ND	mg/kg	0.25	50		11/20/17 20:41	74-83-9	
2-Butanone (MEK)	ND	mg/kg	1.2	50		11/20/17 20:41	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB15 (8-10) Lab ID: 50184394014 Collected: 11/14/17 13:00 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.25	50		11/20/17 20:41	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.25	50		11/20/17 20:41	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.25	50		11/20/17 20:41	98-06-6	
Carbon disulfide	ND	mg/kg	0.49	50		11/20/17 20:41	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.25	50		11/20/17 20:41	56-23-5	
Chlorobenzene	ND	mg/kg	0.25	50		11/20/17 20:41	108-90-7	
Chloroethane	ND	mg/kg	0.25	50		11/20/17 20:41	75-00-3	
Chloroform	ND	mg/kg	0.25	50		11/20/17 20:41	67-66-3	
Chloromethane	ND	mg/kg	0.25	50		11/20/17 20:41	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.25	50		11/20/17 20:41	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.25	50		11/20/17 20:41	106-43-4	
Dibromochloromethane	ND	mg/kg	0.25	50		11/20/17 20:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.25	50		11/20/17 20:41	106-93-4	
Dibromomethane	ND	mg/kg	0.25	50		11/20/17 20:41	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.25	50		11/20/17 20:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.25	50		11/20/17 20:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.25	50		11/20/17 20:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	4.9	50		11/20/17 20:41	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.25	50		11/20/17 20:41	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.25	50		11/20/17 20:41	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.25	50		11/20/17 20:41	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.25	50		11/20/17 20:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.25	50		11/20/17 20:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.25	50		11/20/17 20:41	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.25	50		11/20/17 20:41	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.25	50		11/20/17 20:41	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.25	50		11/20/17 20:41	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.25	50		11/20/17 20:41	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.25	50		11/20/17 20:41	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.25	50		11/20/17 20:41	10061-02-6	
Ethylbenzene	ND	mg/kg	0.25	50		11/20/17 20:41	100-41-4	
Ethyl methacrylate	ND	mg/kg	4.9	50		11/20/17 20:41	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.25	50		11/20/17 20:41	87-68-3	
n-Hexane	ND	mg/kg	0.25	50		11/20/17 20:41	110-54-3	
2-Hexanone	ND	mg/kg	4.9	50		11/20/17 20:41	591-78-6	
Iodomethane	ND	mg/kg	4.9	50		11/20/17 20:41	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.25	50		11/20/17 20:41	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.25	50		11/20/17 20:41	99-87-6	
Methylene Chloride	ND	mg/kg	0.98	50		11/20/17 20:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.2	50		11/20/17 20:41	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.25	50		11/20/17 20:41	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.25	50		11/20/17 20:41	103-65-1	
Styrene	ND	mg/kg	0.25	50		11/20/17 20:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.25	50		11/20/17 20:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.25	50		11/20/17 20:41	79-34-5	
Tetrachloroethene	25.1	mg/kg	2.5	500		11/21/17 17:30	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB15 (8-10)** Lab ID: **50184394014** Collected: 11/14/17 13:00 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.25	50		11/20/17 20:41	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.25	50		11/20/17 20:41	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.25	50		11/20/17 20:41	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.25	50		11/20/17 20:41	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.25	50		11/20/17 20:41	79-00-5	
Trichloroethene	0.29	mg/kg	0.25	50		11/20/17 20:41	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.25	50		11/20/17 20:41	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.25	50		11/20/17 20:41	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.25	50		11/20/17 20:41	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.25	50		11/20/17 20:41	108-67-8	
Vinyl acetate	ND	mg/kg	4.9	50		11/20/17 20:41	108-05-4	
Vinyl chloride	ND	mg/kg	0.25	50		11/20/17 20:41	75-01-4	
Xylene (Total)	ND	mg/kg	0.49	50		11/20/17 20:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	69-136	50		11/20/17 20:41	1868-53-7	D4
Toluene-d8 (S)	100	%	64-150	50		11/20/17 20:41	2037-26-5	
4-Bromofluorobenzene (S)	95	%	51-142	50		11/20/17 20:41	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	19.2	%	0.10	1		11/15/17 14:44

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB16 (0-2) Lab ID: 50184394015 Collected: 11/14/17 13:35 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.8	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:24	7440-38-2	
Barium	23.1	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:24	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	11/16/17 06:18	11/20/17 11:24	7440-43-9	
Chromium	12.3	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:24	7440-47-3	
Lead	20.4	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:24	7439-92-1	
Selenium	ND	mg/kg	0.96	1	11/16/17 06:18	11/20/17 11:24	7782-49-2	
Silver	ND	mg/kg	0.48	1	11/16/17 06:18	11/20/17 11:24	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/17/17 12:54	11/21/17 09:29	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	83-32-9	
Acenaphthylene	ND	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	208-96-8	
Anthracene	0.041	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	120-12-7	
Benzo(a)anthracene	0.24	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	56-55-3	
Benzo(a)pyrene	0.31	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	50-32-8	
Benzo(b)fluoranthene	0.30	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	205-99-2	
Benzo(g,h,i)perylene	0.24	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	191-24-2	
Benzo(k)fluoranthene	0.31	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	207-08-9	
Chrysene	0.33	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	218-01-9	
Dibenz(a,h)anthracene	0.074	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	53-70-3	
Fluoranthene	0.65	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	206-44-0	
Fluorene	ND	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	86-73-7	
Indeno(1,2,3-cd)pyrene	0.21	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	91-57-6	
Naphthalene	ND	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	91-20-3	ED
Phenanthrene	0.20	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	85-01-8	
Pyrene	0.43	mg/kg	0.027	5	11/16/17 10:00	11/17/17 02:57	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	53	%.	30-94	5	11/16/17 10:00	11/17/17 02:57	321-60-8	
p-Terphenyl-d14 (S)	56	%.	27-102	5	11/16/17 10:00	11/17/17 02:57	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.096	1		11/21/17 15:54	67-64-1	M5
Acrolein	ND	mg/kg	0.096	1		11/21/17 15:54	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.096	1		11/21/17 15:54	107-13-1	M5
Benzene	ND	mg/kg	0.0048	1		11/21/17 15:54	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0048	1		11/21/17 15:54	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0048	1		11/21/17 15:54	75-27-4	M5
Bromoform	ND	mg/kg	0.0048	1		11/21/17 15:54	75-25-2	M5
Bromomethane	ND	mg/kg	0.0048	1		11/21/17 15:54	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.024	1		11/21/17 15:54	78-93-3	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB16 (0-2) Lab ID: 50184394015 Collected: 11/14/17 13:35 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0096	1		11/21/17 15:54	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0048	1		11/21/17 15:54	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	108-90-7	M5
Chloroethane	ND	mg/kg	0.0048	1		11/21/17 15:54	75-00-3	M5
Chloroform	ND	mg/kg	0.0048	1		11/21/17 15:54	67-66-3	M5
Chloromethane	ND	mg/kg	0.0048	1		11/21/17 15:54	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0048	1		11/21/17 15:54	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0048	1		11/21/17 15:54	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0048	1		11/21/17 15:54	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		11/21/17 15:54	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0048	1		11/21/17 15:54	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.096	1		11/21/17 15:54	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		11/21/17 15:54	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0048	1		11/21/17 15:54	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0048	1		11/21/17 15:54	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0048	1		11/21/17 15:54	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/21/17 15:54	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/21/17 15:54	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0048	1		11/21/17 15:54	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0048	1		11/21/17 15:54	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0048	1		11/21/17 15:54	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0048	1		11/21/17 15:54	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/21/17 15:54	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/21/17 15:54	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.096	1		11/21/17 15:54	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		11/21/17 15:54	87-68-3	M5
n-Hexane	ND	mg/kg	0.0048	1		11/21/17 15:54	110-54-3	M5
2-Hexanone	ND	mg/kg	0.096	1		11/21/17 15:54	591-78-6	M5
Iodomethane	ND	mg/kg	0.096	1		11/21/17 15:54	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		11/21/17 15:54	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0048	1		11/21/17 15:54	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.019	1		11/21/17 15:54	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		11/21/17 15:54	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		11/21/17 15:54	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	103-65-1	M5
Styrene	ND	mg/kg	0.0048	1		11/21/17 15:54	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/21/17 15:54	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/21/17 15:54	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0048	1		11/21/17 15:54	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB16 (0-2)** Lab ID: **50184394015** Collected: 11/14/17 13:35 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0048	1		11/21/17 15:54	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		11/21/17 15:54	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		11/21/17 15:54	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0048	1		11/21/17 15:54	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0048	1		11/21/17 15:54	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		11/21/17 15:54	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		11/21/17 15:54	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.096	1		11/21/17 15:54	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0048	1		11/21/17 15:54	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0096	1		11/21/17 15:54	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	105	%	69-136	1		11/21/17 15:54	1868-53-7	M5
Toluene-d8 (S)	106	%	64-150	1		11/21/17 15:54	2037-26-5	M5
4-Bromofluorobenzene (S)	95	%	51-142	1		11/21/17 15:54	460-00-4	M5

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	9.3	%	0.10	1		11/15/17 14:44

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB16 (10-12) Lab ID: 50184394016 Collected: 11/14/17 13:50 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.6	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:26	7440-38-2	
Barium	73.6	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:26	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	11/16/17 06:18	11/20/17 11:26	7440-43-9	
Chromium	13.3	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:26	7440-47-3	
Lead	9.5	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:26	7439-92-1	
Selenium	ND	mg/kg	1.1	1	11/16/17 06:18	11/20/17 11:26	7782-49-2	
Silver	ND	mg/kg	0.53	1	11/16/17 06:18	11/20/17 11:26	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/17/17 12:54	11/21/17 09:31	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	208-96-8	
Anthracene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	207-08-9	
Chrysene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	53-70-3	
Fluoranthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	91-20-3	
Phenanthrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	85-01-8	
Pyrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%.	30-94	1	11/16/17 10:00	11/17/17 03:13	321-60-8	
p-Terphenyl-d14 (S)	60	%.	27-102	1	11/16/17 10:00	11/17/17 03:13	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.096	1		11/18/17 08:43	67-64-1	M5
Acrolein	ND	mg/kg	0.096	1		11/18/17 08:43	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.096	1		11/18/17 08:43	107-13-1	M5
Benzene	ND	mg/kg	0.0048	1		11/18/17 08:43	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0048	1		11/18/17 08:43	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0048	1		11/18/17 08:43	75-27-4	M5
Bromoform	ND	mg/kg	0.0048	1		11/18/17 08:43	75-25-2	M5
Bromomethane	ND	mg/kg	0.0048	1		11/18/17 08:43	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.024	1		11/18/17 08:43	78-93-3	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB16 (10-12) Lab ID: 50184394016 Collected: 11/14/17 13:50 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0096	1		11/18/17 08:43	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0048	1		11/18/17 08:43	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	108-90-7	M5
Chloroethane	ND	mg/kg	0.0048	1		11/18/17 08:43	75-00-3	M5
Chloroform	ND	mg/kg	0.0048	1		11/18/17 08:43	67-66-3	M5
Chloromethane	ND	mg/kg	0.0048	1		11/18/17 08:43	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0048	1		11/18/17 08:43	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0048	1		11/18/17 08:43	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0048	1		11/18/17 08:43	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		11/18/17 08:43	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0048	1		11/18/17 08:43	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.096	1		11/18/17 08:43	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		11/18/17 08:43	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0048	1		11/18/17 08:43	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0048	1		11/18/17 08:43	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0048	1		11/18/17 08:43	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/18/17 08:43	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/18/17 08:43	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0048	1		11/18/17 08:43	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0048	1		11/18/17 08:43	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0048	1		11/18/17 08:43	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0048	1		11/18/17 08:43	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/18/17 08:43	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/18/17 08:43	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.096	1		11/18/17 08:43	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		11/18/17 08:43	87-68-3	M5
n-Hexane	ND	mg/kg	0.0048	1		11/18/17 08:43	110-54-3	M5
2-Hexanone	ND	mg/kg	0.096	1		11/18/17 08:43	591-78-6	M5
Iodomethane	ND	mg/kg	0.096	1		11/18/17 08:43	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		11/18/17 08:43	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0048	1		11/18/17 08:43	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.019	1		11/18/17 08:43	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		11/18/17 08:43	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		11/18/17 08:43	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	103-65-1	M5
Styrene	ND	mg/kg	0.0048	1		11/18/17 08:43	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/18/17 08:43	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/18/17 08:43	79-34-5	M5
Tetrachloroethene	0.13	mg/kg	0.0048	1		11/18/17 08:43	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB16 (10-12)** Lab ID: **50184394016** Collected: 11/14/17 13:50 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0048	1		11/18/17 08:43	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		11/18/17 08:43	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		11/18/17 08:43	79-00-5	M5
Trichloroethene	0.010	mg/kg	0.0048	1		11/18/17 08:43	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0048	1		11/18/17 08:43	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		11/18/17 08:43	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		11/18/17 08:43	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.096	1		11/18/17 08:43	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0048	1		11/18/17 08:43	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0096	1		11/18/17 08:43	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	102	%	69-136	1		11/18/17 08:43	1868-53-7	M5
Toluene-d8 (S)	100	%	64-150	1		11/18/17 08:43	2037-26-5	M5
4-Bromofluorobenzene (S)	89	%	51-142	1		11/18/17 08:43	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	18.1	%	0.10	1		11/15/17 14:44		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB17 (0-2) Lab ID: 50184394017 Collected: 11/14/17 14:35 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.9	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:29	7440-38-2	
Barium	66.5	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:29	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	11/16/17 06:18	11/20/17 10:29	7440-43-9	
Chromium	18.9	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:29	7440-47-3	
Lead	25.2	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:29	7439-92-1	
Selenium	ND	mg/kg	1.1	1	11/16/17 06:18	11/20/17 10:29	7782-49-2	
Silver	ND	mg/kg	0.53	1	11/16/17 06:18	11/20/17 10:29	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.27	mg/kg	0.25	1	11/17/17 12:54	11/21/17 09:33	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	0.014	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	83-32-9	
Acenaphthylene	0.037	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	208-96-8	
Anthracene	0.062	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	120-12-7	
Benzo(a)anthracene	0.21	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	56-55-3	
Benzo(a)pyrene	0.21	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	50-32-8	
Benzo(b)fluoranthene	0.16	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	205-99-2	
Benzo(g,h,i)perylene	0.12	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	191-24-2	
Benzo(k)fluoranthene	0.16	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	207-08-9	
Chrysene	0.20	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	218-01-9	
Dibenz(a,h)anthracene	0.042	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	53-70-3	
Fluoranthene	0.40	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	206-44-0	
Fluorene	0.014	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	86-73-7	
Indeno(1,2,3-cd)pyrene	0.11	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	90-12-0	N2
2-Methylnaphthalene	0.0062	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	91-57-6	
Naphthalene	0.0093	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	91-20-3	
Phenanthrene	0.21	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	85-01-8	
Pyrene	0.35	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 03:30	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62	%.	30-94	1	11/16/17 10:00	11/17/17 03:30	321-60-8	
p-Terphenyl-d14 (S)	67	%.	27-102	1	11/16/17 10:00	11/17/17 03:30	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.097	1		11/18/17 11:43	67-64-1	M5
Acrolein	ND	mg/kg	0.097	1		11/18/17 11:43	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.097	1		11/18/17 11:43	107-13-1	M5
Benzene	ND	mg/kg	0.0048	1		11/18/17 11:43	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0048	1		11/18/17 11:43	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0048	1		11/18/17 11:43	75-27-4	M5
Bromoform	ND	mg/kg	0.0048	1		11/18/17 11:43	75-25-2	M5
Bromomethane	ND	mg/kg	0.0048	1		11/18/17 11:43	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.024	1		11/18/17 11:43	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB17 (0-2) Lab ID: 50184394017 Collected: 11/14/17 14:35 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0097	1		11/18/17 11:43	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0048	1		11/18/17 11:43	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	108-90-7	M5
Chloroethane	ND	mg/kg	0.0048	1		11/18/17 11:43	75-00-3	M5
Chloroform	ND	mg/kg	0.0048	1		11/18/17 11:43	67-66-3	M5
Chloromethane	ND	mg/kg	0.0048	1		11/18/17 11:43	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0048	1		11/18/17 11:43	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0048	1		11/18/17 11:43	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0048	1		11/18/17 11:43	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		11/18/17 11:43	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0048	1		11/18/17 11:43	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.097	1		11/18/17 11:43	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		11/18/17 11:43	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0048	1		11/18/17 11:43	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0048	1		11/18/17 11:43	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0048	1		11/18/17 11:43	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/18/17 11:43	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		11/18/17 11:43	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0048	1		11/18/17 11:43	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0048	1		11/18/17 11:43	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0048	1		11/18/17 11:43	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0048	1		11/18/17 11:43	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/18/17 11:43	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		11/18/17 11:43	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.097	1		11/18/17 11:43	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		11/18/17 11:43	87-68-3	M5
n-Hexane	ND	mg/kg	0.0048	1		11/18/17 11:43	110-54-3	M5
2-Hexanone	ND	mg/kg	0.097	1		11/18/17 11:43	591-78-6	M5
Iodomethane	ND	mg/kg	0.097	1		11/18/17 11:43	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		11/18/17 11:43	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0048	1		11/18/17 11:43	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.019	1		11/18/17 11:43	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		11/18/17 11:43	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		11/18/17 11:43	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	103-65-1	M5
Styrene	ND	mg/kg	0.0048	1		11/18/17 11:43	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/18/17 11:43	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		11/18/17 11:43	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0048	1		11/18/17 11:43	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB17 (0-2) Lab ID: 50184394017 Collected: 11/14/17 14:35 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0048	1		11/18/17 11:43	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		11/18/17 11:43	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		11/18/17 11:43	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0048	1		11/18/17 11:43	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0048	1		11/18/17 11:43	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		11/18/17 11:43	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		11/18/17 11:43	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.097	1		11/18/17 11:43	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0048	1		11/18/17 11:43	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0097	1		11/18/17 11:43	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	104	%	69-136	1		11/18/17 11:43	1868-53-7	M5
Toluene-d8 (S)	102	%	64-150	1		11/18/17 11:43	2037-26-5	M5
4-Bromofluorobenzene (S)	94	%	51-142	1		11/18/17 11:43	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	16.9	%	0.10	1		11/15/17 14:44		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 3060A						
Chromium, Hexavalent	ND	mg/kg	2.4	1	12/14/17 11:42	12/14/17 17:46	18540-29-9	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB17 (16-18) **Lab ID: 50184394018** Collected: 11/14/17 14:55 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.5	mg/kg	0.97	1	11/16/17 06:18	11/20/17 11:29	7440-38-2	
Barium	39.9	mg/kg	0.97	1	11/16/17 06:18	11/20/17 11:29	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	11/16/17 06:18	11/20/17 11:29	7440-43-9	
Chromium	10.4	mg/kg	0.97	1	11/16/17 06:18	11/20/17 11:29	7440-47-3	
Lead	6.1	mg/kg	0.97	1	11/16/17 06:18	11/20/17 11:29	7439-92-1	
Selenium	ND	mg/kg	0.97	1	11/16/17 06:18	11/20/17 11:29	7782-49-2	
Silver	ND	mg/kg	0.49	1	11/16/17 06:18	11/20/17 11:29	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.21	1	11/17/17 12:54	11/21/17 09:36	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	83-32-9	
Acenaphthylene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	208-96-8	
Anthracene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	207-08-9	
Chrysene	0.0076	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	53-70-3	
Fluoranthene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	206-44-0	
Fluorene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	91-57-6	
Naphthalene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	91-20-3	
Phenanthrene	0.013	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	85-01-8	
Pyrene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 03:46	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	30-94	1	11/16/17 10:00	11/17/17 03:46	321-60-8	
p-Terphenyl-d14 (S)	71	%.	27-102	1	11/16/17 10:00	11/17/17 03:46	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.078	1		11/18/17 12:15	67-64-1	M5
Acrolein	ND	mg/kg	0.078	1		11/18/17 12:15	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.078	1		11/18/17 12:15	107-13-1	M5
Benzene	ND	mg/kg	0.0039	1		11/18/17 12:15	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0039	1		11/18/17 12:15	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0039	1		11/18/17 12:15	75-27-4	M5
Bromoform	ND	mg/kg	0.0039	1		11/18/17 12:15	75-25-2	M5
Bromomethane	ND	mg/kg	0.0039	1		11/18/17 12:15	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.019	1		11/18/17 12:15	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB17 (16-18) Lab ID: 50184394018 Collected: 11/14/17 14:55 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0078	1		11/18/17 12:15	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0039	1		11/18/17 12:15	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	108-90-7	M5
Chloroethane	ND	mg/kg	0.0039	1		11/18/17 12:15	75-00-3	M5
Chloroform	ND	mg/kg	0.0039	1		11/18/17 12:15	67-66-3	M5
Chloromethane	ND	mg/kg	0.0039	1		11/18/17 12:15	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0039	1		11/18/17 12:15	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0039	1		11/18/17 12:15	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0039	1		11/18/17 12:15	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0039	1		11/18/17 12:15	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0039	1		11/18/17 12:15	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.078	1		11/18/17 12:15	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0039	1		11/18/17 12:15	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0039	1		11/18/17 12:15	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0039	1		11/18/17 12:15	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0039	1		11/18/17 12:15	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0039	1		11/18/17 12:15	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0039	1		11/18/17 12:15	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0039	1		11/18/17 12:15	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0039	1		11/18/17 12:15	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0039	1		11/18/17 12:15	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0039	1		11/18/17 12:15	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0039	1		11/18/17 12:15	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0039	1		11/18/17 12:15	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.078	1		11/18/17 12:15	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0039	1		11/18/17 12:15	87-68-3	M5
n-Hexane	ND	mg/kg	0.0039	1		11/18/17 12:15	110-54-3	M5
2-Hexanone	ND	mg/kg	0.078	1		11/18/17 12:15	591-78-6	M5
Iodomethane	ND	mg/kg	0.078	1		11/18/17 12:15	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0039	1		11/18/17 12:15	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0039	1		11/18/17 12:15	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.016	1		11/18/17 12:15	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.019	1		11/18/17 12:15	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0039	1		11/18/17 12:15	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	103-65-1	M5
Styrene	ND	mg/kg	0.0039	1		11/18/17 12:15	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0039	1		11/18/17 12:15	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0039	1		11/18/17 12:15	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0039	1		11/18/17 12:15	127-18-4	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB17 (16-18)** Lab ID: **50184394018** Collected: 11/14/17 14:55 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0039	1		11/18/17 12:15	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0039	1		11/18/17 12:15	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0039	1		11/18/17 12:15	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0039	1		11/18/17 12:15	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0039	1		11/18/17 12:15	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0039	1		11/18/17 12:15	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0039	1		11/18/17 12:15	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.078	1		11/18/17 12:15	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0039	1		11/18/17 12:15	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0078	1		11/18/17 12:15	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	110	%	69-136	1		11/18/17 12:15	1868-53-7	M5
Toluene-d8 (S)	118	%	64-150	1		11/18/17 12:15	2037-26-5	M5
4-Bromofluorobenzene (S)	74	%	51-142	1		11/18/17 12:15	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	7.7	%	0.10	1		11/15/17 14:44		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB18 (0-2) Lab ID: 50184394019 Collected: 11/14/17 15:15 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.7	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:31	7440-38-2	
Barium	104	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:31	7440-39-3	
Cadmium	ND	mg/kg	0.58	1	11/16/17 06:18	11/20/17 11:31	7440-43-9	
Chromium	14.4	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:31	7440-47-3	
Lead	54.9	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:31	7439-92-1	
Selenium	ND	mg/kg	1.2	1	11/16/17 06:18	11/20/17 11:31	7782-49-2	
Silver	ND	mg/kg	0.58	1	11/16/17 06:18	11/20/17 11:31	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/17/17 12:54	11/21/17 09:38	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	208-96-8	
Anthracene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	207-08-9	
Chrysene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	53-70-3	
Fluoranthene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	91-20-3	
Phenanthrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	85-01-8	
Pyrene	ND	mg/kg	0.0060	1	11/16/17 10:00	11/17/17 04:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62	%.	30-94	1	11/16/17 10:00	11/17/17 04:03	321-60-8	
p-Terphenyl-d14 (S)	69	%.	27-102	1	11/16/17 10:00	11/17/17 04:03	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.099	1		11/18/17 12:48	67-64-1	M5
Acrolein	ND	mg/kg	0.099	1		11/18/17 12:48	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.099	1		11/18/17 12:48	107-13-1	M5
Benzene	ND	mg/kg	0.0050	1		11/18/17 12:48	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0050	1		11/18/17 12:48	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0050	1		11/18/17 12:48	75-27-4	M5
Bromoform	ND	mg/kg	0.0050	1		11/18/17 12:48	75-25-2	M5
Bromomethane	ND	mg/kg	0.0050	1		11/18/17 12:48	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/18/17 12:48	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB18 (0-2) Lab ID: 50184394019 Collected: 11/14/17 15:15 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0099	1		11/18/17 12:48	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0050	1		11/18/17 12:48	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	108-90-7	M5
Chloroethane	ND	mg/kg	0.0050	1		11/18/17 12:48	75-00-3	M5
Chloroform	ND	mg/kg	0.0050	1		11/18/17 12:48	67-66-3	M5
Chloromethane	ND	mg/kg	0.0050	1		11/18/17 12:48	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0050	1		11/18/17 12:48	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0050	1		11/18/17 12:48	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0050	1		11/18/17 12:48	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		11/18/17 12:48	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0050	1		11/18/17 12:48	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.099	1		11/18/17 12:48	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		11/18/17 12:48	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0050	1		11/18/17 12:48	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0050	1		11/18/17 12:48	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0050	1		11/18/17 12:48	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/18/17 12:48	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/18/17 12:48	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0050	1		11/18/17 12:48	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0050	1		11/18/17 12:48	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0050	1		11/18/17 12:48	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0050	1		11/18/17 12:48	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/18/17 12:48	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/18/17 12:48	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.099	1		11/18/17 12:48	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		11/18/17 12:48	87-68-3	M5
n-Hexane	ND	mg/kg	0.0050	1		11/18/17 12:48	110-54-3	M5
2-Hexanone	ND	mg/kg	0.099	1		11/18/17 12:48	591-78-6	M5
Iodomethane	ND	mg/kg	0.099	1		11/18/17 12:48	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		11/18/17 12:48	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0050	1		11/18/17 12:48	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.020	1		11/18/17 12:48	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/18/17 12:48	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		11/18/17 12:48	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	103-65-1	M5
Styrene	ND	mg/kg	0.0050	1		11/18/17 12:48	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/18/17 12:48	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/18/17 12:48	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0050	1		11/18/17 12:48	127-18-4	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB18 (0-2)** Lab ID: **50184394019** Collected: 11/14/17 15:15 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0050	1		11/18/17 12:48	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		11/18/17 12:48	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		11/18/17 12:48	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0050	1		11/18/17 12:48	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0050	1		11/18/17 12:48	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		11/18/17 12:48	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		11/18/17 12:48	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.099	1		11/18/17 12:48	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0050	1		11/18/17 12:48	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0099	1		11/18/17 12:48	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	106	%	69-136	1		11/18/17 12:48	1868-53-7	M5
Toluene-d8 (S)	99	%	64-150	1		11/18/17 12:48	2037-26-5	M5
4-Bromofluorobenzene (S)	93	%	51-142	1		11/18/17 12:48	460-00-4	M5

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	17.0	%	0.10	1		11/15/17 14:44

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB18 (16-18) **Lab ID: 50184394020** Collected: 11/14/17 15:35 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.3	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:33	7440-38-2	
Barium	22.1	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:33	7440-39-3	
Cadmium	ND	mg/kg	0.52	1	11/16/17 06:18	11/20/17 11:33	7440-43-9	
Chromium	8.5	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:33	7440-47-3	
Lead	6.2	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:33	7439-92-1	
Selenium	ND	mg/kg	1.0	1	11/16/17 06:18	11/20/17 11:33	7782-49-2	
Silver	ND	mg/kg	0.52	1	11/16/17 06:18	11/20/17 11:33	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/17/17 12:54	11/21/17 09:40	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	83-32-9	
Acenaphthylene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	208-96-8	
Anthracene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	207-08-9	
Chrysene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	53-70-3	
Fluoranthene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	206-44-0	
Fluorene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	91-57-6	
Naphthalene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	91-20-3	
Phenanthrene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	85-01-8	
Pyrene	ND	mg/kg	0.0054	1	11/16/17 10:00	11/17/17 04:19	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	65	%.	30-94	1	11/16/17 10:00	11/17/17 04:19	321-60-8	
p-Terphenyl-d14 (S)	72	%.	27-102	1	11/16/17 10:00	11/17/17 04:19	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.077	1		11/18/17 13:20	67-64-1	M5
Acrolein	ND	mg/kg	0.077	1		11/18/17 13:20	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.077	1		11/18/17 13:20	107-13-1	M5
Benzene	ND	mg/kg	0.0039	1		11/18/17 13:20	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0039	1		11/18/17 13:20	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0039	1		11/18/17 13:20	75-27-4	M5
Bromoform	ND	mg/kg	0.0039	1		11/18/17 13:20	75-25-2	M5
Bromomethane	ND	mg/kg	0.0039	1		11/18/17 13:20	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.019	1		11/18/17 13:20	78-93-3	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB18 (16-18) Lab ID: 50184394020 Collected: 11/14/17 15:35 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0077	1		11/18/17 13:20	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0039	1		11/18/17 13:20	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	108-90-7	M5
Chloroethane	ND	mg/kg	0.0039	1		11/18/17 13:20	75-00-3	M5
Chloroform	ND	mg/kg	0.0039	1		11/18/17 13:20	67-66-3	M5
Chloromethane	ND	mg/kg	0.0039	1		11/18/17 13:20	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0039	1		11/18/17 13:20	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0039	1		11/18/17 13:20	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0039	1		11/18/17 13:20	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0039	1		11/18/17 13:20	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0039	1		11/18/17 13:20	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.077	1		11/18/17 13:20	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0039	1		11/18/17 13:20	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0039	1		11/18/17 13:20	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0039	1		11/18/17 13:20	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0039	1		11/18/17 13:20	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0039	1		11/18/17 13:20	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0039	1		11/18/17 13:20	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0039	1		11/18/17 13:20	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0039	1		11/18/17 13:20	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0039	1		11/18/17 13:20	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0039	1		11/18/17 13:20	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0039	1		11/18/17 13:20	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0039	1		11/18/17 13:20	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.077	1		11/18/17 13:20	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0039	1		11/18/17 13:20	87-68-3	M5
n-Hexane	ND	mg/kg	0.0039	1		11/18/17 13:20	110-54-3	M5
2-Hexanone	ND	mg/kg	0.077	1		11/18/17 13:20	591-78-6	M5
Iodomethane	ND	mg/kg	0.077	1		11/18/17 13:20	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0039	1		11/18/17 13:20	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0039	1		11/18/17 13:20	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.015	1		11/18/17 13:20	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.019	1		11/18/17 13:20	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0039	1		11/18/17 13:20	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	103-65-1	M5
Styrene	ND	mg/kg	0.0039	1		11/18/17 13:20	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0039	1		11/18/17 13:20	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0039	1		11/18/17 13:20	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0039	1		11/18/17 13:20	127-18-4	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB18 (16-18)** Lab ID: **50184394020** Collected: 11/14/17 15:35 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0039	1		11/18/17 13:20	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0039	1		11/18/17 13:20	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0039	1		11/18/17 13:20	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0039	1		11/18/17 13:20	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0039	1		11/18/17 13:20	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0039	1		11/18/17 13:20	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0039	1		11/18/17 13:20	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.077	1		11/18/17 13:20	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0039	1		11/18/17 13:20	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0077	1		11/18/17 13:20	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	110	%	69-136	1		11/18/17 13:20	1868-53-7	M5
Toluene-d8 (S)	125	%	64-150	1		11/18/17 13:20	2037-26-5	M5
4-Bromofluorobenzene (S)	81	%	51-142	1		11/18/17 13:20	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	7.2	%	0.10	1		11/15/17 14:45		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB19 (0-2) Lab ID: 50184394021 Collected: 11/14/17 15:55 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	13.6	mg/kg	0.97	1	11/16/17 06:17	11/19/17 15:03	7440-38-2	
Barium	45.5	mg/kg	0.97	1	11/16/17 06:17	11/19/17 15:03	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	11/16/17 06:17	11/19/17 15:03	7440-43-9	
Chromium	13.3	mg/kg	0.97	1	11/16/17 06:17	11/19/17 15:03	7440-47-3	
Lead	7.3	mg/kg	0.97	1	11/16/17 06:17	11/19/17 15:03	7439-92-1	
Selenium	2.8	mg/kg	0.97	1	11/16/17 06:17	11/19/17 15:03	7782-49-2	
Silver	ND	mg/kg	0.48	1	11/16/17 06:17	11/19/17 15:03	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/17/17 12:54	11/21/17 09:42	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	30-94	1	11/17/17 10:10	11/17/17 18:26	321-60-8	
p-Terphenyl-d14 (S)	65	%.	27-102	1	11/17/17 10:10	11/17/17 18:26	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.081	1		11/18/17 13:52	67-64-1	M5
Acrolein	ND	mg/kg	0.081	1		11/18/17 13:52	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.081	1		11/18/17 13:52	107-13-1	M5
Benzene	ND	mg/kg	0.0040	1		11/18/17 13:52	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0040	1		11/18/17 13:52	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0040	1		11/18/17 13:52	75-27-4	M5
Bromoform	ND	mg/kg	0.0040	1		11/18/17 13:52	75-25-2	M5
Bromomethane	ND	mg/kg	0.0040	1		11/18/17 13:52	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.020	1		11/18/17 13:52	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB19 (0-2) Lab ID: 50184394021 Collected: 11/14/17 15:55 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0081	1		11/18/17 13:52	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0040	1		11/18/17 13:52	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	108-90-7	M5
Chloroethane	ND	mg/kg	0.0040	1		11/18/17 13:52	75-00-3	M5
Chloroform	ND	mg/kg	0.0040	1		11/18/17 13:52	67-66-3	M5
Chloromethane	ND	mg/kg	0.0040	1		11/18/17 13:52	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0040	1		11/18/17 13:52	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0040	1		11/18/17 13:52	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0040	1		11/18/17 13:52	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0040	1		11/18/17 13:52	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0040	1		11/18/17 13:52	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.081	1		11/18/17 13:52	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0040	1		11/18/17 13:52	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0040	1		11/18/17 13:52	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0040	1		11/18/17 13:52	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0040	1		11/18/17 13:52	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0040	1		11/18/17 13:52	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0040	1		11/18/17 13:52	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0040	1		11/18/17 13:52	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0040	1		11/18/17 13:52	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0040	1		11/18/17 13:52	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0040	1		11/18/17 13:52	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0040	1		11/18/17 13:52	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0040	1		11/18/17 13:52	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.081	1		11/18/17 13:52	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0040	1		11/18/17 13:52	87-68-3	M5
n-Hexane	ND	mg/kg	0.0040	1		11/18/17 13:52	110-54-3	M5
2-Hexanone	ND	mg/kg	0.081	1		11/18/17 13:52	591-78-6	M5
Iodomethane	ND	mg/kg	0.081	1		11/18/17 13:52	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0040	1		11/18/17 13:52	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0040	1		11/18/17 13:52	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.016	1		11/18/17 13:52	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.020	1		11/18/17 13:52	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0040	1		11/18/17 13:52	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	103-65-1	M5
Styrene	ND	mg/kg	0.0040	1		11/18/17 13:52	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0040	1		11/18/17 13:52	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0040	1		11/18/17 13:52	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0040	1		11/18/17 13:52	127-18-4	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB19 (0-2) Lab ID: 50184394021 Collected: 11/14/17 15:55 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0040	1		11/18/17 13:52	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0040	1		11/18/17 13:52	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0040	1		11/18/17 13:52	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0040	1		11/18/17 13:52	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0040	1		11/18/17 13:52	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0040	1		11/18/17 13:52	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0040	1		11/18/17 13:52	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.081	1		11/18/17 13:52	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0040	1		11/18/17 13:52	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0081	1		11/18/17 13:52	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	102	%	69-136	1		11/18/17 13:52	1868-53-7	M5
Toluene-d8 (S)	98	%	64-150	1		11/18/17 13:52	2037-26-5	M5
4-Bromofluorobenzene (S)	90	%	51-142	1		11/18/17 13:52	460-00-4	M5

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	10.8	%	0.10	1		11/15/17 14:40

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB19 (14-16) Lab ID: 50184394022 Collected: 11/14/17 16:10 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.3	mg/kg	1.0	1	11/16/17 06:17	11/19/17 15:06	7440-38-2	
Barium	28.3	mg/kg	1.0	1	11/16/17 06:17	11/19/17 15:06	7440-39-3	
Cadmium	ND	mg/kg	0.52	1	11/16/17 06:17	11/19/17 15:06	7440-43-9	
Chromium	10.1	mg/kg	1.0	1	11/16/17 06:17	11/19/17 15:06	7440-47-3	
Lead	5.7	mg/kg	1.0	1	11/16/17 06:17	11/19/17 15:06	7439-92-1	
Selenium	1.8	mg/kg	1.0	1	11/16/17 06:17	11/19/17 15:06	7782-49-2	
Silver	ND	mg/kg	0.52	1	11/16/17 06:17	11/19/17 15:06	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.21	1	11/17/17 12:54	11/21/17 09:44	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	91-20-3	
Phenanthrene	0.0057	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 18:43	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-94	1	11/17/17 10:10	11/17/17 18:43	321-60-8	
p-Terphenyl-d14 (S)	65	%.	27-102	1	11/17/17 10:10	11/17/17 18:43	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.075	1		11/18/17 14:25	67-64-1	M5
Acrolein	ND	mg/kg	0.075	1		11/18/17 14:25	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.075	1		11/18/17 14:25	107-13-1	M5
Benzene	ND	mg/kg	0.0037	1		11/18/17 14:25	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0037	1		11/18/17 14:25	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0037	1		11/18/17 14:25	75-27-4	M5
Bromoform	ND	mg/kg	0.0037	1		11/18/17 14:25	75-25-2	M5
Bromomethane	ND	mg/kg	0.0037	1		11/18/17 14:25	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.019	1		11/18/17 14:25	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB19 (14-16) Lab ID: 50184394022 Collected: 11/14/17 16:10 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0075	1		11/18/17 14:25	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0037	1		11/18/17 14:25	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	108-90-7	M5
Chloroethane	ND	mg/kg	0.0037	1		11/18/17 14:25	75-00-3	M5
Chloroform	ND	mg/kg	0.0037	1		11/18/17 14:25	67-66-3	M5
Chloromethane	ND	mg/kg	0.0037	1		11/18/17 14:25	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0037	1		11/18/17 14:25	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0037	1		11/18/17 14:25	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0037	1		11/18/17 14:25	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0037	1		11/18/17 14:25	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0037	1		11/18/17 14:25	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.075	1		11/18/17 14:25	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0037	1		11/18/17 14:25	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0037	1		11/18/17 14:25	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0037	1		11/18/17 14:25	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0037	1		11/18/17 14:25	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0037	1		11/18/17 14:25	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0037	1		11/18/17 14:25	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0037	1		11/18/17 14:25	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0037	1		11/18/17 14:25	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0037	1		11/18/17 14:25	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0037	1		11/18/17 14:25	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0037	1		11/18/17 14:25	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0037	1		11/18/17 14:25	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.075	1		11/18/17 14:25	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0037	1		11/18/17 14:25	87-68-3	M5
n-Hexane	ND	mg/kg	0.0037	1		11/18/17 14:25	110-54-3	M5
2-Hexanone	ND	mg/kg	0.075	1		11/18/17 14:25	591-78-6	M5
Iodomethane	ND	mg/kg	0.075	1		11/18/17 14:25	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0037	1		11/18/17 14:25	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0037	1		11/18/17 14:25	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.015	1		11/18/17 14:25	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.019	1		11/18/17 14:25	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0037	1		11/18/17 14:25	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	103-65-1	M5
Styrene	ND	mg/kg	0.0037	1		11/18/17 14:25	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0037	1		11/18/17 14:25	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0037	1		11/18/17 14:25	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0037	1		11/18/17 14:25	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB19 (14-16)** Lab ID: **50184394022** Collected: 11/14/17 16:10 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0037	1		11/18/17 14:25	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0037	1		11/18/17 14:25	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0037	1		11/18/17 14:25	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0037	1		11/18/17 14:25	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0037	1		11/18/17 14:25	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0037	1		11/18/17 14:25	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0037	1		11/18/17 14:25	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.075	1		11/18/17 14:25	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0037	1		11/18/17 14:25	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0075	1		11/18/17 14:25	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	110	%	69-136	1		11/18/17 14:25	1868-53-7	M5
Toluene-d8 (S)	124	%	64-150	1		11/18/17 14:25	2037-26-5	M5
4-Bromofluorobenzene (S)	78	%	51-142	1		11/18/17 14:25	460-00-4	M5

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	8.7	%	0.10	1		11/15/17 14:40

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB20 (0-2) Lab ID: 50184394023 Collected: 11/14/17 16:25 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.4	mg/kg	1.1	1	11/16/17 06:17	11/19/17 15:08	7440-38-2	
Barium	65.5	mg/kg	1.1	1	11/16/17 06:17	11/19/17 15:08	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	11/16/17 06:17	11/19/17 15:08	7440-43-9	
Chromium	11.7	mg/kg	1.1	1	11/16/17 06:17	11/19/17 15:08	7440-47-3	
Lead	15.5	mg/kg	1.1	1	11/16/17 06:17	11/19/17 15:08	7439-92-1	
Selenium	1.7	mg/kg	1.1	1	11/16/17 06:17	11/19/17 15:08	7782-49-2	
Silver	ND	mg/kg	0.53	1	11/16/17 06:17	11/19/17 15:08	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/17/17 12:54	11/21/17 09:46	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	83-32-9	
Acenaphthylene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	208-96-8	
Anthracene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	207-08-9	
Chrysene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	53-70-3	
Fluoranthene	0.0098	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	206-44-0	
Fluorene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	91-57-6	
Naphthalene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	91-20-3	
Phenanthrene	ND	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	85-01-8	
Pyrene	0.0074	mg/kg	0.0058	1	11/17/17 10:10	11/17/17 18:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	30-94	1	11/17/17 10:10	11/17/17 18:59	321-60-8	
p-Terphenyl-d14 (S)	63	%.	27-102	1	11/17/17 10:10	11/17/17 18:59	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.082	1		11/18/17 14:57	67-64-1	M5
Acrolein	ND	mg/kg	0.082	1		11/18/17 14:57	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.082	1		11/18/17 14:57	107-13-1	M5
Benzene	ND	mg/kg	0.0041	1		11/18/17 14:57	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0041	1		11/18/17 14:57	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0041	1		11/18/17 14:57	75-27-4	M5
Bromoform	ND	mg/kg	0.0041	1		11/18/17 14:57	75-25-2	M5
Bromomethane	ND	mg/kg	0.0041	1		11/18/17 14:57	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.020	1		11/18/17 14:57	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB20 (0-2) Lab ID: 50184394023 Collected: 11/14/17 16:25 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0082	1		11/18/17 14:57	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0041	1		11/18/17 14:57	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	108-90-7	M5
Chloroethane	ND	mg/kg	0.0041	1		11/18/17 14:57	75-00-3	M5
Chloroform	ND	mg/kg	0.0041	1		11/18/17 14:57	67-66-3	M5
Chloromethane	ND	mg/kg	0.0041	1		11/18/17 14:57	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0041	1		11/18/17 14:57	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0041	1		11/18/17 14:57	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0041	1		11/18/17 14:57	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0041	1		11/18/17 14:57	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0041	1		11/18/17 14:57	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.082	1		11/18/17 14:57	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0041	1		11/18/17 14:57	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0041	1		11/18/17 14:57	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0041	1		11/18/17 14:57	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0041	1		11/18/17 14:57	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0041	1		11/18/17 14:57	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0041	1		11/18/17 14:57	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0041	1		11/18/17 14:57	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0041	1		11/18/17 14:57	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0041	1		11/18/17 14:57	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0041	1		11/18/17 14:57	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0041	1		11/18/17 14:57	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0041	1		11/18/17 14:57	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.082	1		11/18/17 14:57	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0041	1		11/18/17 14:57	87-68-3	M5
n-Hexane	ND	mg/kg	0.0041	1		11/18/17 14:57	110-54-3	M5
2-Hexanone	ND	mg/kg	0.082	1		11/18/17 14:57	591-78-6	M5
Iodomethane	ND	mg/kg	0.082	1		11/18/17 14:57	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0041	1		11/18/17 14:57	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0041	1		11/18/17 14:57	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.016	1		11/18/17 14:57	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.020	1		11/18/17 14:57	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0041	1		11/18/17 14:57	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	103-65-1	M5
Styrene	ND	mg/kg	0.0041	1		11/18/17 14:57	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0041	1		11/18/17 14:57	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0041	1		11/18/17 14:57	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0041	1		11/18/17 14:57	127-18-4	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB20 (0-2) Lab ID: 50184394023 Collected: 11/14/17 16:25 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0041	1		11/18/17 14:57	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0041	1		11/18/17 14:57	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0041	1		11/18/17 14:57	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0041	1		11/18/17 14:57	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0041	1		11/18/17 14:57	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0041	1		11/18/17 14:57	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0041	1		11/18/17 14:57	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.082	1		11/18/17 14:57	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0041	1		11/18/17 14:57	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0082	1		11/18/17 14:57	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	102	%	69-136	1		11/18/17 14:57	1868-53-7	M5
Toluene-d8 (S)	101	%	64-150	1		11/18/17 14:57	2037-26-5	M5
4-Bromofluorobenzene (S)	87	%	51-142	1		11/18/17 14:57	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	13.3	%	0.10	1		11/15/17 14:40		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB20 (24-26) Lab ID: 50184394024 Collected: 11/14/17 16:50 Received: 11/15/17 11:40 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.4	mg/kg	0.99	1	11/16/17 06:17	11/19/17 15:10	7440-38-2	
Barium	47.1	mg/kg	0.99	1	11/16/17 06:17	11/19/17 15:10	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	11/16/17 06:17	11/19/17 15:10	7440-43-9	
Chromium	10.7	mg/kg	0.99	1	11/16/17 06:17	11/19/17 15:10	7440-47-3	
Lead	6.4	mg/kg	0.99	1	11/16/17 06:17	11/19/17 15:10	7439-92-1	
Selenium	2.1	mg/kg	0.99	1	11/16/17 06:17	11/19/17 15:10	7782-49-2	
Silver	ND	mg/kg	0.49	1	11/16/17 06:17	11/19/17 15:10	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/17/17 12:54	11/21/17 09:55	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	91-20-3	
Phenanthrene	0.0059	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 19:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52	%.	30-94	1	11/17/17 10:10	11/17/17 19:15	321-60-8	
p-Terphenyl-d14 (S)	54	%.	27-102	1	11/17/17 10:10	11/17/17 19:15	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.070	1		11/20/17 13:41	67-64-1	
Acrolein	ND	mg/kg	0.070	1		11/20/17 13:41	107-02-8	
Acrylonitrile	ND	mg/kg	0.070	1		11/20/17 13:41	107-13-1	
Benzene	ND	mg/kg	0.0035	1		11/20/17 13:41	71-43-2	
Bromobenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	108-86-1	
Bromochloromethane	ND	mg/kg	0.0035	1		11/20/17 13:41	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0035	1		11/20/17 13:41	75-27-4	
Bromoform	ND	mg/kg	0.0035	1		11/20/17 13:41	75-25-2	
Bromomethane	ND	mg/kg	0.0035	1		11/20/17 13:41	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.018	1		11/20/17 13:41	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: SB20 (24-26) Lab ID: 50184394024 Collected: 11/14/17 16:50 Received: 11/15/17 11:40 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						
n-Butylbenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	98-06-6	
Carbon disulfide	ND	mg/kg	0.0070	1		11/20/17 13:41	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0035	1		11/20/17 13:41	56-23-5	
Chlorobenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	108-90-7	
Chloroethane	ND	mg/kg	0.0035	1		11/20/17 13:41	75-00-3	
Chloroform	ND	mg/kg	0.0035	1		11/20/17 13:41	67-66-3	
Chloromethane	ND	mg/kg	0.0035	1		11/20/17 13:41	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0035	1		11/20/17 13:41	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0035	1		11/20/17 13:41	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0035	1		11/20/17 13:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0035	1		11/20/17 13:41	106-93-4	
Dibromomethane	ND	mg/kg	0.0035	1		11/20/17 13:41	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.070	1		11/20/17 13:41	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0035	1		11/20/17 13:41	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0035	1		11/20/17 13:41	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0035	1		11/20/17 13:41	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0035	1		11/20/17 13:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0035	1		11/20/17 13:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0035	1		11/20/17 13:41	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0035	1		11/20/17 13:41	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0035	1		11/20/17 13:41	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0035	1		11/20/17 13:41	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0035	1		11/20/17 13:41	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0035	1		11/20/17 13:41	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0035	1		11/20/17 13:41	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.070	1		11/20/17 13:41	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0035	1		11/20/17 13:41	87-68-3	
n-Hexane	ND	mg/kg	0.0035	1		11/20/17 13:41	110-54-3	
2-Hexanone	ND	mg/kg	0.070	1		11/20/17 13:41	591-78-6	
Iodomethane	ND	mg/kg	0.070	1		11/20/17 13:41	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0035	1		11/20/17 13:41	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0035	1		11/20/17 13:41	99-87-6	
Methylene Chloride	ND	mg/kg	0.014	1		11/20/17 13:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.018	1		11/20/17 13:41	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0035	1		11/20/17 13:41	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	103-65-1	
Styrene	ND	mg/kg	0.0035	1		11/20/17 13:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0035	1		11/20/17 13:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0035	1		11/20/17 13:41	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0035	1		11/20/17 13:41	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: **SB20 (24-26)** Lab ID: **50184394024** Collected: 11/14/17 16:50 Received: 11/15/17 11:40 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						
Toluene	ND	mg/kg	0.0035	1		11/20/17 13:41	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0035	1		11/20/17 13:41	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0035	1		11/20/17 13:41	79-00-5	
Trichloroethene	ND	mg/kg	0.0035	1		11/20/17 13:41	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0035	1		11/20/17 13:41	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0035	1		11/20/17 13:41	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0035	1		11/20/17 13:41	108-67-8	
Vinyl acetate	ND	mg/kg	0.070	1		11/20/17 13:41	108-05-4	
Vinyl chloride	ND	mg/kg	0.0035	1		11/20/17 13:41	75-01-4	
Xylene (Total)	ND	mg/kg	0.0070	1		11/20/17 13:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	69-136	1		11/20/17 13:41	1868-53-7	
Toluene-d8 (S)	127	%	64-150	1		11/20/17 13:41	2037-26-5	
4-Bromofluorobenzene (S)	75	%	51-142	1		11/20/17 13:41	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	10.1	%	0.10	1		11/15/17 14:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: TB-2 Lab ID: 50184394025 Collected: 11/14/17 08:00 Received: 11/15/17 11:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	mg/kg	0.10	1		11/20/17 14:13	67-64-1	
Acrolein	ND	mg/kg	0.10	1		11/20/17 14:13	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		11/20/17 14:13	107-13-1	
Benzene	ND	mg/kg	0.0050	1		11/20/17 14:13	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		11/20/17 14:13	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		11/20/17 14:13	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		11/20/17 14:13	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		11/20/17 14:13	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/20/17 14:13	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		11/20/17 14:13	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		11/20/17 14:13	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		11/20/17 14:13	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		11/20/17 14:13	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		11/20/17 14:13	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		11/20/17 14:13	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		11/20/17 14:13	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		11/20/17 14:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		11/20/17 14:13	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		11/20/17 14:13	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/20/17 14:13	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		11/20/17 14:13	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		11/20/17 14:13	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		11/20/17 14:13	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		11/20/17 14:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/20/17 14:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/20/17 14:13	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		11/20/17 14:13	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		11/20/17 14:13	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		11/20/17 14:13	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		11/20/17 14:13	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/20/17 14:13	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/20/17 14:13	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		11/20/17 14:13	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		11/20/17 14:13	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		11/20/17 14:13	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		11/20/17 14:13	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		11/20/17 14:13	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Sample: TB-2 Lab ID: 50184394025 Collected: 11/14/17 08:00 Received: 11/15/17 11:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		11/20/17 14:13	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		11/20/17 14:13	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/20/17 14:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/20/17 14:13	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		11/20/17 14:13	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	103-65-1	
Styrene	ND	mg/kg	0.0050	1		11/20/17 14:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/20/17 14:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/20/17 14:13	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		11/20/17 14:13	127-18-4	
Toluene	ND	mg/kg	0.0050	1		11/20/17 14:13	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		11/20/17 14:13	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		11/20/17 14:13	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		11/20/17 14:13	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		11/20/17 14:13	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		11/20/17 14:13	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		11/20/17 14:13	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		11/20/17 14:13	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		11/20/17 14:13	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		11/20/17 14:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	69-136	1		11/20/17 14:13	1868-53-7	
Toluene-d8 (S)	101	%.	64-150	1		11/20/17 14:13	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	51-142	1		11/20/17 14:13	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch:	415656	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	50184394001, 50184394002, 50184394003, 50184394004, 50184394005, 50184394006, 50184394007, 50184394008		

METHOD BLANK:	1913893	Matrix:	Solid
Associated Lab Samples:	50184394001, 50184394002, 50184394003, 50184394004, 50184394005, 50184394006, 50184394007, 50184394008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.19	11/17/17 18:44	

LABORATORY CONTROL SAMPLE: 1913894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.48	0.48	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913895 1913896

Parameter	Units	50184394003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.52	.57	0.54	0.60	103	103	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch:	415657	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	50184394009, 50184394010, 50184394011, 50184394012, 50184394013, 50184394014, 50184394015, 50184394016, 50184394017, 50184394018, 50184394019, 50184394020, 50184394021, 50184394022, 50184394023, 50184394024		

METHOD BLANK: 1913898

Matrix: Solid

Associated Lab Samples: 50184394009, 50184394010, 50184394011, 50184394012, 50184394013, 50184394014, 50184394015, 50184394016, 50184394017, 50184394018, 50184394019, 50184394020, 50184394021, 50184394022, 50184394023, 50184394024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	11/21/17 09:04	

LABORATORY CONTROL SAMPLE: 1913899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.48	0.48	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913900 1913901

Parameter	Units	50184394009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.59	.59	0.64	0.76	91	111	75-125	17	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch:	415373	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	50184394001, 50184394002, 50184394003, 50184394004, 50184394005, 50184394006, 50184394007, 50184394008, 50184394009, 50184394010, 50184394011, 50184394012, 50184394013, 50184394014, 50184394015, 50184394016, 50184394017, 50184394018, 50184394019, 50184394020		

METHOD BLANK: 1912517 Matrix: Solid

Associated Lab Samples: 50184394001, 50184394002, 50184394003, 50184394004, 50184394005, 50184394006, 50184394007, 50184394008, 50184394009, 50184394010, 50184394011, 50184394012, 50184394013, 50184394014, 50184394015, 50184394016, 50184394017, 50184394018, 50184394019, 50184394020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	11/20/17 10:25	
Barium	mg/kg	ND	1.0	11/20/17 10:25	
Cadmium	mg/kg	ND	0.50	11/20/17 10:25	
Chromium	mg/kg	ND	1.0	11/20/17 10:25	
Lead	mg/kg	ND	1.0	11/20/17 10:25	
Selenium	mg/kg	ND	1.0	11/20/17 10:25	
Silver	mg/kg	ND	0.50	11/20/17 10:25	

LABORATORY CONTROL SAMPLE: 1912518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	53.0	106	80-120	
Barium	mg/kg	50	52.4	105	80-120	
Cadmium	mg/kg	50	51.6	103	80-120	
Chromium	mg/kg	50	52.8	106	80-120	
Lead	mg/kg	50	50.1	100	80-120	
Selenium	mg/kg	50	51.9	104	80-120	
Silver	mg/kg	25	27.5	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1912519 1912520

Parameter	Units	50184394003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	8.4	52.4	51.4	58.0	57.0	95	94	75-125	2	20	
Barium	mg/kg	43.2	52.4	51.4	102	96.0	113	103	75-125	6	20	
Cadmium	mg/kg	ND	52.4	51.4	50.6	48.5	96	94	75-125	4	20	
Chromium	mg/kg	10.3	52.4	51.4	71.0	56.5	116	90	75-125	23	20	2d
Lead	mg/kg	20.7	52.4	51.4	52.0	49.4	60	56	75-125	5	20	M3
Selenium	mg/kg	ND	52.4	51.4	49.2	47.2	94	92	75-125	4	20	
Silver	mg/kg	ND	26.2	25.8	28.5	27.2	109	106	75-125	5	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site
Pace Project No.: 50184394

QC Batch: 415375 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50184394021, 50184394022, 50184394023, 50184394024

METHOD BLANK: 1912522 Matrix: Solid
Associated Lab Samples: 50184394021, 50184394022, 50184394023, 50184394024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	11/19/17 14:08	
Barium	mg/kg	ND	1.0	11/19/17 14:08	
Cadmium	mg/kg	ND	0.50	11/19/17 14:08	
Chromium	mg/kg	ND	1.0	11/19/17 14:08	
Lead	mg/kg	ND	1.0	11/19/17 14:08	
Selenium	mg/kg	ND	1.0	11/19/17 14:08	
Silver	mg/kg	ND	0.50	11/19/17 14:08	

LABORATORY CONTROL SAMPLE: 1912523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	53.3	107	80-120	
Barium	mg/kg	50	52.4	105	80-120	
Cadmium	mg/kg	50	51.3	103	80-120	
Chromium	mg/kg	50	52.2	104	80-120	
Lead	mg/kg	50	51.0	102	80-120	
Selenium	mg/kg	50	52.7	105	80-120	
Silver	mg/kg	25	26.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1912524 1912525

Parameter	Units	50184354004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.8	48.9	51.5	50.4	53.7	95	97	75-125	6	20	
Barium	mg/kg	43.5	48.9	51.5	98.5	88.7	113	88	75-125	11	20	
Cadmium	mg/kg	ND	48.9	51.5	45.7	49.7	93	96	75-125	8	20	
Chromium	mg/kg	8.5	48.9	51.5	54.9	56.5	95	93	75-125	3	20	
Lead	mg/kg	4.9	48.9	51.5	46.3	48.8	85	85	75-125	5	20	
Selenium	mg/kg	1.5	48.9	51.5	47.1	50.3	93	95	75-125	7	20	
Silver	mg/kg	ND	24.4	25.7	23.1	25.0	95	97	75-125	8	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch: 415950

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 50184394001, 50184394002, 50184394003

METHOD BLANK: 1915699

Matrix: Solid

Associated Lab Samples: 50184394001, 50184394002, 50184394003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/17/17 16:01	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/17/17 16:01	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/17/17 16:01	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/17/17 16:01	
1,1-Dichloroethane	mg/kg	ND	0.0050	11/17/17 16:01	
1,1-Dichloroethene	mg/kg	ND	0.0050	11/17/17 16:01	
1,1-Dichloropropene	mg/kg	ND	0.0050	11/17/17 16:01	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/17/17 16:01	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/17/17 16:01	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/17/17 16:01	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/17/17 16:01	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/17/17 16:01	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/17/17 16:01	
1,2-Dichloroethane	mg/kg	ND	0.0050	11/17/17 16:01	
1,2-Dichloropropane	mg/kg	ND	0.0050	11/17/17 16:01	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/17/17 16:01	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/17/17 16:01	
1,3-Dichloropropane	mg/kg	ND	0.0050	11/17/17 16:01	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/17/17 16:01	
2,2-Dichloropropane	mg/kg	ND	0.0050	11/17/17 16:01	
2-Butanone (MEK)	mg/kg	ND	0.025	11/17/17 16:01	
2-Chlorotoluene	mg/kg	ND	0.0050	11/17/17 16:01	
2-Hexanone	mg/kg	ND	0.10	11/17/17 16:01	
4-Chlorotoluene	mg/kg	ND	0.0050	11/17/17 16:01	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/17/17 16:01	
Acetone	mg/kg	ND	0.10	11/17/17 16:01	
Acrolein	mg/kg	ND	0.10	11/17/17 16:01	
Acrylonitrile	mg/kg	ND	0.10	11/17/17 16:01	
Benzene	mg/kg	ND	0.0050	11/17/17 16:01	
Bromobenzene	mg/kg	ND	0.0050	11/17/17 16:01	
Bromochloromethane	mg/kg	ND	0.0050	11/17/17 16:01	
Bromodichloromethane	mg/kg	ND	0.0050	11/17/17 16:01	
Bromoform	mg/kg	ND	0.0050	11/17/17 16:01	
Bromomethane	mg/kg	ND	0.0050	11/17/17 16:01	
Carbon disulfide	mg/kg	ND	0.010	11/17/17 16:01	
Carbon tetrachloride	mg/kg	ND	0.0050	11/17/17 16:01	
Chlorobenzene	mg/kg	ND	0.0050	11/17/17 16:01	
Chloroethane	mg/kg	ND	0.0050	11/17/17 16:01	
Chloroform	mg/kg	ND	0.0050	11/17/17 16:01	
Chloromethane	mg/kg	ND	0.0050	11/17/17 16:01	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/17/17 16:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

METHOD BLANK: 1915699

Matrix: Solid

Associated Lab Samples: 50184394001, 50184394002, 50184394003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/17/17 16:01	
Dibromochloromethane	mg/kg	ND	0.0050	11/17/17 16:01	
Dibromomethane	mg/kg	ND	0.0050	11/17/17 16:01	
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/17/17 16:01	
Ethyl methacrylate	mg/kg	ND	0.10	11/17/17 16:01	
Ethylbenzene	mg/kg	ND	0.0050	11/17/17 16:01	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/17/17 16:01	
Iodomethane	mg/kg	ND	0.10	11/17/17 16:01	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/17/17 16:01	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/17/17 16:01	
Methylene Chloride	mg/kg	ND	0.020	11/17/17 16:01	
n-Butylbenzene	mg/kg	ND	0.0050	11/17/17 16:01	
n-Hexane	mg/kg	ND	0.0050	11/17/17 16:01	
n-Propylbenzene	mg/kg	ND	0.0050	11/17/17 16:01	
p-Isopropyltoluene	mg/kg	ND	0.0050	11/17/17 16:01	
sec-Butylbenzene	mg/kg	ND	0.0050	11/17/17 16:01	
Styrene	mg/kg	ND	0.0050	11/17/17 16:01	
tert-Butylbenzene	mg/kg	ND	0.0050	11/17/17 16:01	
Tetrachloroethene	mg/kg	ND	0.0050	11/17/17 16:01	
Toluene	mg/kg	ND	0.0050	11/17/17 16:01	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/17/17 16:01	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/17/17 16:01	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/17/17 16:01	
Trichloroethene	mg/kg	ND	0.0050	11/17/17 16:01	
Trichlorofluoromethane	mg/kg	ND	0.0050	11/17/17 16:01	
Vinyl acetate	mg/kg	ND	0.10	11/17/17 16:01	
Vinyl chloride	mg/kg	ND	0.0050	11/17/17 16:01	
Xylene (Total)	mg/kg	ND	0.010	11/17/17 16:01	
4-Bromofluorobenzene (S)	%	92	51-142	11/17/17 16:01	
Dibromofluoromethane (S)	%	105	69-136	11/17/17 16:01	
Toluene-d8 (S)	%	95	64-150	11/17/17 16:01	

LABORATORY CONTROL SAMPLE: 1915700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.049	98	76-126	
1,1,1-Trichloroethane	mg/kg	.05	0.041	82	72-126	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	99	68-125	
1,1,2-Trichloroethane	mg/kg	.05	0.051	102	72-124	
1,1-Dichloroethane	mg/kg	.05	0.042	84	78-117	
1,1-Dichloroethene	mg/kg	.05	0.040	80	70-132	
1,1-Dichloropropene	mg/kg	.05	0.042	83	79-121	
1,2,3-Trichlorobenzene	mg/kg	.05	0.046	92	65-117	
1,2,3-Trichloropropane	mg/kg	.05	0.049	98	78-128	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1915700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	.05	0.044	89	58-121	
1,2,4-Trimethylbenzene	mg/kg	.05	0.044	87	70-118	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.049	99	76-127	
1,2-Dichlorobenzene	mg/kg	.05	0.047	94	72-114	
1,2-Dichloroethane	mg/kg	.05	0.040	79	70-119	
1,2-Dichloropropane	mg/kg	.05	0.049	98	76-122	
1,3,5-Trimethylbenzene	mg/kg	.05	0.045	91	71-122	
1,3-Dichlorobenzene	mg/kg	.05	0.047	93	70-115	
1,3-Dichloropropane	mg/kg	.05	0.052	104	76-130	
1,4-Dichlorobenzene	mg/kg	.05	0.047	93	68-113	
2,2-Dichloropropane	mg/kg	.05	0.042	84	66-125	
2-Butanone (MEK)	mg/kg	.25	0.24	95	56-161	
2-Chlorotoluene	mg/kg	.05	0.048	95	69-122	
2-Hexanone	mg/kg	.25	0.25	100	67-141	
4-Chlorotoluene	mg/kg	.05	0.048	96	70-118	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.22	90	72-125	
Acetone	mg/kg	.25	0.22	86	24-194	
Acrolein	mg/kg	1	1.3	126	23-200	
Acrylonitrile	mg/kg	.2	0.16	81	70-122	
Benzene	mg/kg	.05	0.043	85	75-119	
Bromobenzene	mg/kg	.05	0.045	90	73-119	
Bromochloromethane	mg/kg	.05	0.045	91	73-117	
Bromodichloromethane	mg/kg	.05	0.043	86	73-120	
Bromoform	mg/kg	.05	0.049	98	65-121	
Bromomethane	mg/kg	.05	0.040	79	28-161	
Carbon disulfide	mg/kg	.05	0.039	77	64-115	
Carbon tetrachloride	mg/kg	.05	0.041	83	74-130	
Chlorobenzene	mg/kg	.05	0.048	96	75-114	
Chloroethane	mg/kg	.05	0.040	81	46-129	
Chloroform	mg/kg	.05	0.041	83	71-114	
Chloromethane	mg/kg	.05	0.033	67	39-121	
cis-1,2-Dichloroethene	mg/kg	.05	0.042	83	79-121	
cis-1,3-Dichloropropene	mg/kg	.05	0.048	95	73-132	
Dibromochloromethane	mg/kg	.05	0.050	100	73-123	
Dibromomethane	mg/kg	.05	0.046	92	79-119	
Dichlorodifluoromethane	mg/kg	.05	0.025	49	44-155	
Ethyl methacrylate	mg/kg	.2	0.19	96	74-136	
Ethylbenzene	mg/kg	.05	0.047	95	73-121	
Hexachloro-1,3-butadiene	mg/kg	.05	0.047	93	65-131	
Iodomethane	mg/kg	.1	.086J	86	44-168	
Isopropylbenzene (Cumene)	mg/kg	.05	0.049	97	72-122	
Methyl-tert-butyl ether	mg/kg	.05	0.040	80	74-121	
Methylene Chloride	mg/kg	.05	0.058	115	61-140	
n-Butylbenzene	mg/kg	.05	0.044	89	64-125	
n-Hexane	mg/kg	.05	0.037	74	69-116	
n-Propylbenzene	mg/kg	.05	0.046	92	70-127	
p-Isopropyltoluene	mg/kg	.05	0.046	91	71-123	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1915700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	mg/kg	.05	0.046	93	72-129	
Styrene	mg/kg	.05	0.048	96	72-127	
tert-Butylbenzene	mg/kg	.05	0.046	93	57-108	
Tetrachloroethene	mg/kg	.05	0.050	99	68-120	
Toluene	mg/kg	.05	0.047	94	71-114	
trans-1,2-Dichloroethene	mg/kg	.05	0.041	82	76-125	
trans-1,3-Dichloropropene	mg/kg	.05	0.048	95	69-133	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.19	97	58-132	
Trichloroethene	mg/kg	.05	0.048	95	77-115	
Trichlorofluoromethane	mg/kg	.05	0.043	86	61-142	
Vinyl acetate	mg/kg	.2	0.19	95	64-139	
Vinyl chloride	mg/kg	.05	0.039	79	66-139	
Xylene (Total)	mg/kg	.15	0.14	93	71-119	
4-Bromofluorobenzene (S)	%			96	51-142	
Dibromofluoromethane (S)	%			91	69-136	
Toluene-d8 (S)	%			100	64-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1915701 1915702

Parameter	Units	50184394003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	mg/kg	ND	.049	.055	0.050	0.055	102	101	27-152	9	20	
1,1,1-Trichloroethane	mg/kg	ND	.049	.055	0.039	0.041	80	75	31-146	4	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.049	.055	0.053	0.071	108	131	22-171	30	20	R1
1,1,2-Trichloroethane	mg/kg	ND	.049	.055	0.048	0.055	99	101	33-156	13	20	
1,1-Dichloroethane	mg/kg	ND	.049	.055	0.040	0.044	82	80	54-142	8	20	
1,1-Dichloroethene	mg/kg	ND	.049	.055	0.041	0.042	83	78	53-154	4	20	
1,1-Dichloropropene	mg/kg	ND	.049	.055	0.034	0.036	69	66	40-146	5	20	
1,2,3-Trichlorobenzene	mg/kg	ND	.049	.055	0.018	0.018	38	33	10-124	1	20	
1,2,3-Trichloropropane	mg/kg	ND	.049	.055	0.056	0.073	114	133	39-177	26	20	R1
1,2,4-Trichlorobenzene	mg/kg	ND	.049	.055	0.019	0.019	39	35	10-126	0	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.049	.055	0.047	0.052	97	95	10-162	9	20	
1,2-Dibromoethane (EDB)	mg/kg	ND	.049	.055	0.039	0.048	81	88	28-155	20	20	
1,2-Dichlorobenzene	mg/kg	ND	.049	.055	0.033	0.038	68	69	10-142	13	20	
1,2-Dichloroethane	mg/kg	ND	.049	.055	0.036	0.041	74	75	45-133	12	20	
1,2-Dichloropropane	mg/kg	ND	.049	.055	0.040	0.045	82	83	49-140	12	20	
1,3,5-Trimethylbenzene	mg/kg	ND	.049	.055	0.051	0.057	105	105	10-151	11	20	
1,3-Dichlorobenzene	mg/kg	ND	.049	.055	0.035	0.037	72	69	10-138	5	20	
1,3-Dichloropropane	mg/kg	ND	.049	.055	0.047	0.052	97	96	37-158	10	20	
1,4-Dichlorobenzene	mg/kg	ND	.049	.055	0.033	0.036	68	65	10-137	7	20	
2,2-Dichloropropane	mg/kg	ND	.049	.055	0.040	0.042	81	78	43-146	7	20	
2-Butanone (MEK)	mg/kg	ND	.24	.27	0.29	0.32	119	116	25-197	8	20	
2-Chlorotoluene	mg/kg	ND	.049	.055	0.049	0.056	100	103	10-171	14	20	
2-Hexanone	mg/kg	ND	.24	.27	0.28	0.30	114	110	21-184	7	20	
4-Chlorotoluene	mg/kg	ND	.049	.055	0.042	0.045	85	83	10-152	8	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1915701 1915702											
Parameter	Units	50184394003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.24	.27	0.29	0.31	117	113	31-169	7	20
Acetone	mg/kg	ND	.24	.27	0.43	0.44	175	161	22-200	2	20
Acrolein	mg/kg	ND	.98	1.1	1.4	1.5	139	138	10-200	10	20
Acrylonitrile	mg/kg	ND	.2	.22	0.17	0.19	89	85	20-165	7	20
Benzene	mg/kg	ND	.049	.055	0.039	0.043	80	79	43-141	10	20
Bromobenzene	mg/kg	ND	.049	.055	0.027	0.029	55	53	10-143	8	20
Bromochloromethane	mg/kg	ND	.049	.055	0.045	0.048	93	88	52-135	5	20
Bromodichloromethane	mg/kg	ND	.049	.055	0.033	0.039	68	71	27-145	15	20
Bromoform	mg/kg	ND	.049	.055	0.047	0.062	95	113	19-154	28	20 R1
Bromomethane	mg/kg	ND	.049	.055	0.041	0.045	84	83	14-170	10	20
Carbon disulfide	mg/kg	ND	.049	.055	0.037	0.041	76	75	28-137	10	20
Carbon tetrachloride	mg/kg	ND	.049	.055	0.037	0.039	75	72	41-150	7	20
Chlorobenzene	mg/kg	ND	.049	.055	0.038	0.040	78	73	20-141	4	20
Chloroethane	mg/kg	ND	.049	.055	0.044	0.048	90	89	34-147	9	20
Chloroform	mg/kg	ND	.049	.055	0.039	0.044	80	80	49-134	11	20
Chloromethane	mg/kg	ND	.049	.055	0.038	0.039	78	71	27-136	1	20
cis-1,2-Dichloroethene	mg/kg	ND	.049	.055	0.038	0.042	78	78	50-144	10	20
cis-1,3-Dichloropropene	mg/kg	ND	.049	.055	0.047	0.052	96	95	22-161	9	20
Dibromochloromethane	mg/kg	ND	.049	.055	0.041	0.047	85	87	25-146	14	20
Dibromomethane	mg/kg	ND	.049	.055	0.037	0.043	76	79	39-142	14	20
Dichlorodifluoromethane	mg/kg	ND	.049	.055	0.025	0.025	50	45	20-186	0	20
Ethyl methacrylate	mg/kg	ND	.2	.22	0.19	0.22	96	102	10-170	16	20
Ethylbenzene	mg/kg	ND	.049	.055	0.041	0.043	84	79	21-149	4	20
Hexachloro-1,3-butadiene	mg/kg	ND	.049	.055	0.039	0.034	79	62	10-152	14	20
Iodomethane	mg/kg	ND	.098	.11	.082J	.091J	84	84	10-189		20
Isopropylbenzene (Cumene)	mg/kg	ND	.049	.055	0.042	0.040	85	73	15-152	5	20
Methyl-tert-butyl ether	mg/kg	ND	.049	.055	0.047	0.051	96	93	60-141	8	20
Methylene Chloride	mg/kg	ND	.049	.055	0.045	0.053	93	97	41-145	15	20
n-Butylbenzene	mg/kg	ND	.049	.055	0.040	0.034	81	62	10-154	16	20
n-Hexane	mg/kg	ND	.049	.055	0.024	0.021	49	38	23-146	15	20
n-Propylbenzene	mg/kg	ND	.049	.055	0.052	0.052	105	95	10-183	0	20
p-Isopropyltoluene	mg/kg	ND	.049	.055	0.049	0.049	101	90	10-183	0	20
sec-Butylbenzene	mg/kg	ND	.049	.055	0.054	0.054	111	99	10-184	1	20
Styrene	mg/kg	ND	.049	.055	0.034	0.035	69	64	10-154	3	20
tert-Butylbenzene	mg/kg	ND	.049	.055	0.063	0.068	129	124	10-173	7	20
Tetrachloroethene	mg/kg	ND	.049	.055	0.045	0.043	92	79	21-155	5	20
Toluene	mg/kg	ND	.049	.055	0.047	0.048	96	88	30-146	2	20
trans-1,2-Dichloroethene	mg/kg	ND	.049	.055	0.041	0.044	83	81	50-146	8	20
trans-1,3-Dichloropropene	mg/kg	ND	.049	.055	0.039	0.047	80	86	15-157	18	20
trans-1,4-Dichloro-2-butene	mg/kg	ND	.2	.22	0.10	0.13	51	58	10-155	23	20 R1
Trichloroethene	mg/kg	ND	.049	.055	0.036	0.039	74	71	25-162	7	20
Trichlorofluoromethane	mg/kg	ND	.049	.055	0.041	0.043	84	78	42-164	4	20
Vinyl acetate	mg/kg	ND	.2	.22	.081J	.097J	42	44	10-173		20
Vinyl chloride	mg/kg	ND	.049	.055	0.045	0.045	92	82	51-160	1	20
Xylene (Total)	mg/kg	ND	.14	.16	0.12	0.12	82	76	15-151	2	20

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1915701 1915702												
Parameter	Units	50184394003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
4-Bromofluorobenzene (S)	%.						81	79	51-142			
Dibromofluoromethane (S)	%.						96	99	69-136			
Toluene-d8 (S)	%.						120	119	64-150			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch:	415953	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	50184394016, 50184394017, 50184394018, 50184394019, 50184394020, 50184394021, 50184394022, 50184394023		

METHOD BLANK:	1915737	Matrix:	Solid
Associated Lab Samples:	50184394016, 50184394017, 50184394018, 50184394019, 50184394020, 50184394021, 50184394022, 50184394023		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,1-Dichloroethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,1-Dichloroethene	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,1-Dichloropropene	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,2-Dichloroethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,2-Dichloropropane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,3-Dichloropropane	mg/kg	ND	0.0050	11/18/17 04:24	M5
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
2,2-Dichloropropane	mg/kg	ND	0.0050	11/18/17 04:24	M5
2-Butanone (MEK)	mg/kg	ND	0.025	11/18/17 04:24	M5
2-Chlorotoluene	mg/kg	ND	0.0050	11/18/17 04:24	M5
2-Hexanone	mg/kg	ND	0.10	11/18/17 04:24	M5
4-Chlorotoluene	mg/kg	ND	0.0050	11/18/17 04:24	M5
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/18/17 04:24	M5
Acetone	mg/kg	ND	0.10	11/18/17 04:24	M5
Acrolein	mg/kg	ND	0.10	11/18/17 04:24	M5
Acrylonitrile	mg/kg	ND	0.10	11/18/17 04:24	M5
Benzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Bromobenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Bromochloromethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
Bromodichloromethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
Bromoform	mg/kg	ND	0.0050	11/18/17 04:24	M5
Bromomethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
Carbon disulfide	mg/kg	ND	0.010	11/18/17 04:24	M5
Carbon tetrachloride	mg/kg	ND	0.0050	11/18/17 04:24	M5
Chlorobenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Chloroethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
Chloroform	mg/kg	ND	0.0050	11/18/17 04:24	M5
Chloromethane	mg/kg	ND	0.0050	11/18/17 04:24	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

METHOD BLANK: 1915737

Matrix: Solid

Associated Lab Samples: 50184394016, 50184394017, 50184394018, 50184394019, 50184394020, 50184394021, 50184394022, 50184394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/18/17 04:24	M5
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Dibromochloromethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
Dibromomethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
Ethyl methacrylate	mg/kg	ND	0.10	11/18/17 04:24	M5
Ethylbenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Iodomethane	mg/kg	ND	0.10	11/18/17 04:24	M5
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/18/17 04:24	M5
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/18/17 04:24	M5
Methylene Chloride	mg/kg	ND	0.020	11/18/17 04:24	M5
n-Butylbenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
n-Hexane	mg/kg	ND	0.0050	11/18/17 04:24	M5
n-Propylbenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
p-Isopropyltoluene	mg/kg	ND	0.0050	11/18/17 04:24	M5
sec-Butylbenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Styrene	mg/kg	ND	0.0050	11/18/17 04:24	M5
tert-Butylbenzene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Tetrachloroethene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Toluene	mg/kg	ND	0.0050	11/18/17 04:24	M5
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/18/17 04:24	M5
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/18/17 04:24	M5
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/18/17 04:24	M5
Trichloroethene	mg/kg	ND	0.0050	11/18/17 04:24	M5
Trichlorofluoromethane	mg/kg	ND	0.0050	11/18/17 04:24	M5
Vinyl acetate	mg/kg	ND	0.10	11/18/17 04:24	M5
Vinyl chloride	mg/kg	ND	0.0050	11/18/17 04:24	M5
Xylene (Total)	mg/kg	ND	0.010	11/18/17 04:24	M5
4-Bromofluorobenzene (S)	%	98	51-142	11/18/17 04:24	M5
Dibromofluoromethane (S)	%	104	69-136	11/18/17 04:24	M5
Toluene-d8 (S)	%	96	64-150	11/18/17 04:24	M5

LABORATORY CONTROL SAMPLE: 1915738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.047	94	76-126	M5
1,1,1-Trichloroethane	mg/kg	.05	0.042	83	72-126	M5
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	99	68-125	M5
1,1,2-Trichloroethane	mg/kg	.05	0.048	97	72-124	M5
1,1-Dichloroethane	mg/kg	.05	0.041	82	78-117	M5
1,1-Dichloroethene	mg/kg	.05	0.040	80	70-132	M5
1,1-Dichloropropene	mg/kg	.05	0.042	84	79-121	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1915738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	.05	0.043	86	65-117	M5
1,2,3-Trichloropropane	mg/kg	.05	0.052	104	78-128	M5
1,2,4-Trichlorobenzene	mg/kg	.05	0.041	82	58-121	M5
1,2,4-Trimethylbenzene	mg/kg	.05	0.042	84	70-118	M5
1,2-Dibromoethane (EDB)	mg/kg	.05	0.048	96	76-127	M5
1,2-Dichlorobenzene	mg/kg	.05	0.046	91	72-114	M5
1,2-Dichloroethane	mg/kg	.05	0.041	82	70-119	M5
1,2-Dichloropropane	mg/kg	.05	0.047	94	76-122	M5
1,3,5-Trimethylbenzene	mg/kg	.05	0.043	86	71-122	M5
1,3-Dichlorobenzene	mg/kg	.05	0.044	89	70-115	M5
1,3-Dichloropropane	mg/kg	.05	0.051	102	76-130	M5
1,4-Dichlorobenzene	mg/kg	.05	0.043	86	68-113	M5
2,2-Dichloropropane	mg/kg	.05	0.037	74	66-125	M5
2-Butanone (MEK)	mg/kg	.25	0.22	89	56-161	M5
2-Chlorotoluene	mg/kg	.05	0.046	91	69-122	M5
2-Hexanone	mg/kg	.25	0.23	92	67-141	M5
4-Chlorotoluene	mg/kg	.05	0.044	88	70-118	M5
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	90	72-125	M5
Acetone	mg/kg	.25	0.19	76	24-194	M5
Acrolein	mg/kg	1	1.4	137	23-200	M5
Acrylonitrile	mg/kg	.2	0.17	83	70-122	M5
Benzene	mg/kg	.05	0.043	85	75-119	M5
Bromobenzene	mg/kg	.05	0.044	88	73-119	M5
Bromochloromethane	mg/kg	.05	0.044	89	73-117	M5
Bromodichloromethane	mg/kg	.05	0.042	85	73-120	M5
Bromoform	mg/kg	.05	0.050	100	65-121	M5
Bromomethane	mg/kg	.05	0.040	79	28-161	M5
Carbon disulfide	mg/kg	.05	0.037	75	64-115	M5
Carbon tetrachloride	mg/kg	.05	0.042	84	74-130	M5
Chlorobenzene	mg/kg	.05	0.045	91	75-114	M5
Chloroethane	mg/kg	.05	0.039	78	46-129	M5
Chloroform	mg/kg	.05	0.042	84	71-114	M5
Chloromethane	mg/kg	.05	0.032	65	39-121	M5
cis-1,2-Dichloroethene	mg/kg	.05	0.041	83	79-121	M5
cis-1,3-Dichloropropene	mg/kg	.05	0.046	93	73-132	M5
Dibromochloromethane	mg/kg	.05	0.049	97	73-123	M5
Dibromomethane	mg/kg	.05	0.046	92	79-119	M5
Dichlorodifluoromethane	mg/kg	.05	0.023	46	44-155	M5
Ethyl methacrylate	mg/kg	.2	0.20	98	74-136	M5
Ethylbenzene	mg/kg	.05	0.045	89	73-121	M5
Hexachloro-1,3-butadiene	mg/kg	.05	0.045	89	65-131	M5
Iodomethane	mg/kg	.1	.083J	83	44-168	M5
Isopropylbenzene (Cumene)	mg/kg	.05	0.045	90	72-122	M5
Methyl-tert-butyl ether	mg/kg	.05	0.042	83	74-121	M5
Methylene Chloride	mg/kg	.05	0.056	113	61-140	M5
n-Butylbenzene	mg/kg	.05	0.041	82	64-125	M5
n-Hexane	mg/kg	.05	0.035	69	69-116	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1915738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	mg/kg	.05	0.044	88	70-127	M5
p-Isopropyltoluene	mg/kg	.05	0.043	87	71-123	M5
sec-Butylbenzene	mg/kg	.05	0.044	89	72-129	M5
Styrene	mg/kg	.05	0.044	88	72-127	M5
tert-Butylbenzene	mg/kg	.05	0.045	90	57-108	M5
Tetrachloroethene	mg/kg	.05	0.044	88	68-120	M5
Toluene	mg/kg	.05	0.045	89	71-114	M5
trans-1,2-Dichloroethene	mg/kg	.05	0.041	82	76-125	M5
trans-1,3-Dichloropropene	mg/kg	.05	0.045	91	69-133	M5
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.18	88	58-132	M5
Trichloroethene	mg/kg	.05	0.046	92	77-115	M5
Trichlorofluoromethane	mg/kg	.05	0.040	79	61-142	M5
Vinyl acetate	mg/kg	.2	0.18	92	64-139	M5
Vinyl chloride	mg/kg	.05	0.038	77	66-139	M5
Xylene (Total)	mg/kg	.15	0.13	87	71-119	M5
4-Bromofluorobenzene (S)	%.			95	51-142	M5
Dibromofluoromethane (S)	%.			95	69-136	M5
Toluene-d8 (S)	%.			100	64-150	M5

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch: 416277 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50184394008, 50184394009, 50184394010, 50184394011, 50184394014, 50184394024, 50184394025

METHOD BLANK: 1917089 Matrix: Solid
Associated Lab Samples: 50184394008, 50184394009, 50184394010, 50184394011, 50184394014, 50184394024, 50184394025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/20/17 12:04	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/20/17 12:04	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/20/17 12:04	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/20/17 12:04	
1,1-Dichloroethane	mg/kg	ND	0.0050	11/20/17 12:04	
1,1-Dichloroethene	mg/kg	ND	0.0050	11/20/17 12:04	
1,1-Dichloropropene	mg/kg	ND	0.0050	11/20/17 12:04	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/20/17 12:04	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/20/17 12:04	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/20/17 12:04	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/20/17 12:04	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/20/17 12:04	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/20/17 12:04	
1,2-Dichloroethane	mg/kg	ND	0.0050	11/20/17 12:04	
1,2-Dichloropropane	mg/kg	ND	0.0050	11/20/17 12:04	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/20/17 12:04	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/20/17 12:04	
1,3-Dichloropropane	mg/kg	ND	0.0050	11/20/17 12:04	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/20/17 12:04	
2,2-Dichloropropane	mg/kg	ND	0.0050	11/20/17 12:04	
2-Butanone (MEK)	mg/kg	ND	0.025	11/20/17 12:04	
2-Chlorotoluene	mg/kg	ND	0.0050	11/20/17 12:04	
2-Hexanone	mg/kg	ND	0.10	11/20/17 12:04	
4-Chlorotoluene	mg/kg	ND	0.0050	11/20/17 12:04	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/20/17 12:04	
Acetone	mg/kg	ND	0.10	11/20/17 12:04	
Acrolein	mg/kg	ND	0.10	11/20/17 12:04	
Acrylonitrile	mg/kg	ND	0.10	11/20/17 12:04	
Benzene	mg/kg	ND	0.0050	11/20/17 12:04	
Bromobenzene	mg/kg	ND	0.0050	11/20/17 12:04	
Bromochloromethane	mg/kg	ND	0.0050	11/20/17 12:04	
Bromodichloromethane	mg/kg	ND	0.0050	11/20/17 12:04	
Bromoform	mg/kg	ND	0.0050	11/20/17 12:04	
Bromomethane	mg/kg	ND	0.0050	11/20/17 12:04	
Carbon disulfide	mg/kg	ND	0.010	11/20/17 12:04	
Carbon tetrachloride	mg/kg	ND	0.0050	11/20/17 12:04	
Chlorobenzene	mg/kg	ND	0.0050	11/20/17 12:04	
Chloroethane	mg/kg	ND	0.0050	11/20/17 12:04	
Chloroform	mg/kg	ND	0.0050	11/20/17 12:04	
Chloromethane	mg/kg	ND	0.0050	11/20/17 12:04	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/20/17 12:04	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

METHOD BLANK: 1917089

Matrix: Solid

Associated Lab Samples: 50184394008, 50184394009, 50184394010, 50184394011, 50184394014, 50184394024, 50184394025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/20/17 12:04	
Dibromochloromethane	mg/kg	ND	0.0050	11/20/17 12:04	
Dibromomethane	mg/kg	ND	0.0050	11/20/17 12:04	
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/20/17 12:04	
Ethyl methacrylate	mg/kg	ND	0.10	11/20/17 12:04	
Ethylbenzene	mg/kg	ND	0.0050	11/20/17 12:04	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/20/17 12:04	
Iodomethane	mg/kg	ND	0.10	11/20/17 12:04	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/20/17 12:04	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/20/17 12:04	
Methylene Chloride	mg/kg	ND	0.020	11/20/17 12:04	
n-Butylbenzene	mg/kg	ND	0.0050	11/20/17 12:04	
n-Hexane	mg/kg	ND	0.0050	11/20/17 12:04	
n-Propylbenzene	mg/kg	ND	0.0050	11/20/17 12:04	
p-Isopropyltoluene	mg/kg	ND	0.0050	11/20/17 12:04	
sec-Butylbenzene	mg/kg	ND	0.0050	11/20/17 12:04	
Styrene	mg/kg	ND	0.0050	11/20/17 12:04	
tert-Butylbenzene	mg/kg	ND	0.0050	11/20/17 12:04	
Tetrachloroethene	mg/kg	ND	0.0050	11/20/17 12:04	
Toluene	mg/kg	ND	0.0050	11/20/17 12:04	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/20/17 12:04	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/20/17 12:04	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/20/17 12:04	
Trichloroethene	mg/kg	ND	0.0050	11/20/17 12:04	
Trichlorofluoromethane	mg/kg	ND	0.0050	11/20/17 12:04	
Vinyl acetate	mg/kg	ND	0.10	11/20/17 12:04	
Vinyl chloride	mg/kg	ND	0.0050	11/20/17 12:04	
Xylene (Total)	mg/kg	ND	0.010	11/20/17 12:04	
4-Bromofluorobenzene (S)	%	97	51-142	11/20/17 12:04	
Dibromofluoromethane (S)	%	105	69-136	11/20/17 12:04	
Toluene-d8 (S)	%	96	64-150	11/20/17 12:04	

LABORATORY CONTROL SAMPLE: 1917090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.048	96	76-126	
1,1,1-Trichloroethane	mg/kg	.05	0.043	85	72-126	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	99	68-125	
1,1,2-Trichloroethane	mg/kg	.05	0.049	98	72-124	
1,1-Dichloroethane	mg/kg	.05	0.043	87	78-117	
1,1-Dichloroethene	mg/kg	.05	0.041	83	70-132	
1,1-Dichloropropene	mg/kg	.05	0.042	84	79-121	
1,2,3-Trichlorobenzene	mg/kg	.05	0.047	94	65-117	
1,2,3-Trichloropropane	mg/kg	.05	0.051	102	78-128	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1917090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	.05	0.045	91	58-121	
1,2,4-Trimethylbenzene	mg/kg	.05	0.043	86	70-118	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.049	98	76-127	
1,2-Dichlorobenzene	mg/kg	.05	0.046	92	72-114	
1,2-Dichloroethane	mg/kg	.05	0.041	83	70-119	
1,2-Dichloropropane	mg/kg	.05	0.048	96	76-122	
1,3,5-Trimethylbenzene	mg/kg	.05	0.045	90	71-122	
1,3-Dichlorobenzene	mg/kg	.05	0.047	94	70-115	
1,3-Dichloropropane	mg/kg	.05	0.049	99	76-130	
1,4-Dichlorobenzene	mg/kg	.05	0.048	96	68-113	
2,2-Dichloropropane	mg/kg	.05	0.044	88	66-125	
2-Butanone (MEK)	mg/kg	.25	0.27	107	56-161	
2-Chlorotoluene	mg/kg	.05	0.046	92	69-122	
2-Hexanone	mg/kg	.25	0.26	103	67-141	
4-Chlorotoluene	mg/kg	.05	0.048	96	70-118	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	90	72-125	
Acetone	mg/kg	.25	0.31	125	24-194	
Acrolein	mg/kg	1	1.4	135	23-200	
Acrylonitrile	mg/kg	.2	0.17	86	70-122	
Benzene	mg/kg	.05	0.047	93	75-119	
Bromobenzene	mg/kg	.05	0.043	86	73-119	
Bromochloromethane	mg/kg	.05	0.047	95	73-117	
Bromodichloromethane	mg/kg	.05	0.045	90	73-120	
Bromoform	mg/kg	.05	0.050	100	65-121	
Bromomethane	mg/kg	.05	0.041	82	28-161	
Carbon disulfide	mg/kg	.05	0.038	77	64-115	
Carbon tetrachloride	mg/kg	.05	0.042	84	74-130	
Chlorobenzene	mg/kg	.05	0.047	94	75-114	
Chloroethane	mg/kg	.05	0.042	84	46-129	
Chloroform	mg/kg	.05	0.043	87	71-114	
Chloromethane	mg/kg	.05	0.032	63	39-121	
cis-1,2-Dichloroethene	mg/kg	.05	0.043	87	79-121	
cis-1,3-Dichloropropene	mg/kg	.05	0.048	96	73-132	
Dibromochloromethane	mg/kg	.05	0.048	96	73-123	
Dibromomethane	mg/kg	.05	0.046	92	79-119	
Dichlorodifluoromethane	mg/kg	.05	0.022	44	44-155	
Ethyl methacrylate	mg/kg	.2	0.19	97	74-136	
Ethylbenzene	mg/kg	.05	0.046	92	73-121	
Hexachloro-1,3-butadiene	mg/kg	.05	0.044	88	65-131	
Iodomethane	mg/kg	.1	.086J	86	44-168	
Isopropylbenzene (Cumene)	mg/kg	.05	0.044	89	72-122	
Methyl-tert-butyl ether	mg/kg	.05	0.043	87	74-121	
Methylene Chloride	mg/kg	.05	0.042	84	61-140	
n-Butylbenzene	mg/kg	.05	0.042	85	64-125	
n-Hexane	mg/kg	.05	0.037	73	69-116	
n-Propylbenzene	mg/kg	.05	0.045	89	70-127	
p-Isopropyltoluene	mg/kg	.05	0.044	87	71-123	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1917090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	mg/kg	.05	0.044	88	72-129	
Styrene	mg/kg	.05	0.047	93	72-127	
tert-Butylbenzene	mg/kg	.05	0.045	89	57-108	
Tetrachloroethene	mg/kg	.05	0.047	93	68-120	
Toluene	mg/kg	.05	0.045	90	71-114	
trans-1,2-Dichloroethene	mg/kg	.05	0.042	85	76-125	
trans-1,3-Dichloropropene	mg/kg	.05	0.048	96	69-133	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.20	99	58-132	
Trichloroethene	mg/kg	.05	0.047	94	77-115	
Trichlorofluoromethane	mg/kg	.05	0.040	80	61-142	
Vinyl acetate	mg/kg	.2	0.21	104	64-139	
Vinyl chloride	mg/kg	.05	0.039	79	66-139	
Xylene (Total)	mg/kg	.15	0.14	91	71-119	
4-Bromofluorobenzene (S)	%			97	51-142	
Dibromofluoromethane (S)	%			98	69-136	
Toluene-d8 (S)	%			101	64-150	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch: 416298 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50184394004, 50184394005, 50184394006, 50184394007, 50184394012, 50184394013

METHOD BLANK: 1917206 Matrix: Solid
Associated Lab Samples: 50184394004, 50184394005, 50184394006, 50184394007, 50184394012, 50184394013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/21/17 00:27	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/21/17 00:27	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/21/17 00:27	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/21/17 00:27	
1,1-Dichloroethane	mg/kg	ND	0.0050	11/21/17 00:27	
1,1-Dichloroethene	mg/kg	ND	0.0050	11/21/17 00:27	
1,1-Dichloropropene	mg/kg	ND	0.0050	11/21/17 00:27	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/21/17 00:27	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/21/17 00:27	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/21/17 00:27	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/21/17 00:27	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/21/17 00:27	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 00:27	
1,2-Dichloroethane	mg/kg	ND	0.0050	11/21/17 00:27	
1,2-Dichloropropane	mg/kg	ND	0.0050	11/21/17 00:27	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/21/17 00:27	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 00:27	
1,3-Dichloropropane	mg/kg	ND	0.0050	11/21/17 00:27	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 00:27	
2,2-Dichloropropane	mg/kg	ND	0.0050	11/21/17 00:27	
2-Butanone (MEK)	mg/kg	ND	0.025	11/21/17 00:27	
2-Chlorotoluene	mg/kg	ND	0.0050	11/21/17 00:27	
2-Hexanone	mg/kg	ND	0.10	11/21/17 00:27	
4-Chlorotoluene	mg/kg	ND	0.0050	11/21/17 00:27	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/21/17 00:27	
Acetone	mg/kg	ND	0.10	11/21/17 00:27	
Acrolein	mg/kg	ND	0.10	11/21/17 00:27	
Acrylonitrile	mg/kg	ND	0.10	11/21/17 00:27	
Benzene	mg/kg	ND	0.0050	11/21/17 00:27	
Bromobenzene	mg/kg	ND	0.0050	11/21/17 00:27	
Bromochloromethane	mg/kg	ND	0.0050	11/21/17 00:27	
Bromodichloromethane	mg/kg	ND	0.0050	11/21/17 00:27	
Bromoform	mg/kg	ND	0.0050	11/21/17 00:27	
Bromomethane	mg/kg	ND	0.0050	11/21/17 00:27	
Carbon disulfide	mg/kg	ND	0.010	11/21/17 00:27	
Carbon tetrachloride	mg/kg	ND	0.0050	11/21/17 00:27	
Chlorobenzene	mg/kg	ND	0.0050	11/21/17 00:27	
Chloroethane	mg/kg	ND	0.0050	11/21/17 00:27	
Chloroform	mg/kg	ND	0.0050	11/21/17 00:27	
Chloromethane	mg/kg	ND	0.0050	11/21/17 00:27	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/21/17 00:27	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

METHOD BLANK: 1917206

Matrix: Solid

Associated Lab Samples: 50184394004, 50184394005, 50184394006, 50184394007, 50184394012, 50184394013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/21/17 00:27	
Dibromochloromethane	mg/kg	ND	0.0050	11/21/17 00:27	
Dibromomethane	mg/kg	ND	0.0050	11/21/17 00:27	
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/21/17 00:27	
Ethyl methacrylate	mg/kg	ND	0.10	11/21/17 00:27	
Ethylbenzene	mg/kg	ND	0.0050	11/21/17 00:27	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/21/17 00:27	
Iodomethane	mg/kg	ND	0.10	11/21/17 00:27	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/21/17 00:27	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/21/17 00:27	
Methylene Chloride	mg/kg	ND	0.020	11/21/17 00:27	
n-Butylbenzene	mg/kg	ND	0.0050	11/21/17 00:27	
n-Hexane	mg/kg	ND	0.0050	11/21/17 00:27	
n-Propylbenzene	mg/kg	ND	0.0050	11/21/17 00:27	
p-Isopropyltoluene	mg/kg	ND	0.0050	11/21/17 00:27	
sec-Butylbenzene	mg/kg	ND	0.0050	11/21/17 00:27	
Styrene	mg/kg	ND	0.0050	11/21/17 00:27	
tert-Butylbenzene	mg/kg	ND	0.0050	11/21/17 00:27	
Tetrachloroethene	mg/kg	ND	0.0050	11/21/17 00:27	
Toluene	mg/kg	ND	0.0050	11/21/17 00:27	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/21/17 00:27	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/21/17 00:27	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/21/17 00:27	
Trichloroethene	mg/kg	ND	0.0050	11/21/17 00:27	
Trichlorofluoromethane	mg/kg	ND	0.0050	11/21/17 00:27	
Vinyl acetate	mg/kg	ND	0.10	11/21/17 00:27	
Vinyl chloride	mg/kg	ND	0.0050	11/21/17 00:27	
Xylene (Total)	mg/kg	ND	0.010	11/21/17 00:27	
4-Bromofluorobenzene (S)	%	99	51-142	11/21/17 00:27	
Dibromofluoromethane (S)	%	101	69-136	11/21/17 00:27	
Toluene-d8 (S)	%	100	64-150	11/21/17 00:27	

LABORATORY CONTROL SAMPLE: 1917207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.046	93	76-126	
1,1,1-Trichloroethane	mg/kg	.05	0.046	91	72-126	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	97	68-125	
1,1,2-Trichloroethane	mg/kg	.05	0.048	95	72-124	
1,1-Dichloroethane	mg/kg	.05	0.046	93	78-117	
1,1-Dichloroethene	mg/kg	.05	0.049	97	70-132	
1,1-Dichloropropene	mg/kg	.05	0.048	95	79-121	
1,2,3-Trichlorobenzene	mg/kg	.05	0.046	93	65-117	
1,2,3-Trichloropropane	mg/kg	.05	0.049	97	78-128	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1917207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	.05	0.049	97	58-121	
1,2,4-Trimethylbenzene	mg/kg	.05	0.045	89	70-118	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.047	95	76-127	
1,2-Dichlorobenzene	mg/kg	.05	0.048	95	72-114	
1,2-Dichloroethane	mg/kg	.05	0.041	82	70-119	
1,2-Dichloropropane	mg/kg	.05	0.049	99	76-122	
1,3,5-Trimethylbenzene	mg/kg	.05	0.046	93	71-122	
1,3-Dichlorobenzene	mg/kg	.05	0.049	99	70-115	
1,3-Dichloropropane	mg/kg	.05	0.048	95	76-130	
1,4-Dichlorobenzene	mg/kg	.05	0.049	97	68-113	
2,2-Dichloropropane	mg/kg	.05	0.046	93	66-125	
2-Butanone (MEK)	mg/kg	.25	0.33	131	56-161	
2-Chlorotoluene	mg/kg	.05	0.048	96	69-122	
2-Hexanone	mg/kg	.25	0.28	112	67-141	
4-Chlorotoluene	mg/kg	.05	0.050	100	70-118	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.22	89	72-125	
Acetone	mg/kg	.25	0.43	170	24-194	
Acrolein	mg/kg	1	1.3	129	23-200	
Acrylonitrile	mg/kg	.2	0.17	86	70-122	
Benzene	mg/kg	.05	0.049	99	75-119	
Bromobenzene	mg/kg	.05	0.047	94	73-119	
Bromochloromethane	mg/kg	.05	0.048	95	73-117	
Bromodichloromethane	mg/kg	.05	0.043	86	73-120	
Bromoform	mg/kg	.05	0.048	97	65-121	
Bromomethane	mg/kg	.05	0.053	105	28-161	
Carbon disulfide	mg/kg	.05	0.050	101	64-115	
Carbon tetrachloride	mg/kg	.05	0.045	90	74-130	
Chlorobenzene	mg/kg	.05	0.048	96	75-114	
Chloroethane	mg/kg	.05	0.052	104	46-129	
Chloroform	mg/kg	.05	0.044	88	71-114	
Chloromethane	mg/kg	.05	0.051	102	39-121	
cis-1,2-Dichloroethene	mg/kg	.05	0.045	91	79-121	
cis-1,3-Dichloropropene	mg/kg	.05	0.049	97	73-132	
Dibromochloromethane	mg/kg	.05	0.048	95	73-123	
Dibromomethane	mg/kg	.05	0.047	95	79-119	
Dichlorodifluoromethane	mg/kg	.05	0.054	108	44-155	
Ethyl methacrylate	mg/kg	.2	0.19	95	74-136	
Ethylbenzene	mg/kg	.05	0.047	93	73-121	
Hexachloro-1,3-butadiene	mg/kg	.05	0.047	93	65-131	
Iodomethane	mg/kg	.1	0.10	103	44-168	
Isopropylbenzene (Cumene)	mg/kg	.05	0.046	92	72-122	
Methyl-tert-butyl ether	mg/kg	.05	0.046	91	74-121	
Methylene Chloride	mg/kg	.05	0.050	100	61-140	
n-Butylbenzene	mg/kg	.05	0.046	92	64-125	
n-Hexane	mg/kg	.05	0.049	97	69-116	
n-Propylbenzene	mg/kg	.05	0.048	96	70-127	
p-Isopropyltoluene	mg/kg	.05	0.046	92	71-123	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1917207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	mg/kg	.05	0.047	95	72-129	
Styrene	mg/kg	.05	0.046	92	72-127	
tert-Butylbenzene	mg/kg	.05	0.045	91	57-108	
Tetrachloroethene	mg/kg	.05	0.049	99	68-120	
Toluene	mg/kg	.05	0.046	92	71-114	
trans-1,2-Dichloroethene	mg/kg	.05	0.048	96	76-125	
trans-1,3-Dichloropropene	mg/kg	.05	0.048	95	69-133	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.19	94	58-132	
Trichloroethene	mg/kg	.05	0.051	101	77-115	
Trichlorofluoromethane	mg/kg	.05	0.053	106	61-142	
Vinyl acetate	mg/kg	.2	0.21	104	64-139	
Vinyl chloride	mg/kg	.05	0.058	116	66-139	
Xylene (Total)	mg/kg	.15	0.14	93	71-119	
4-Bromofluorobenzene (S)	%			95	51-142	
Dibromofluoromethane (S)	%			94	69-136	
Toluene-d8 (S)	%			100	64-150	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch: 416550

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 50184394015

METHOD BLANK: 1918584

Matrix: Solid

Associated Lab Samples: 50184394015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,1-Dichloroethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,1-Dichloroethene	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,1-Dichloropropene	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,2-Dichloroethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,2-Dichloropropane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,3-Dichloropropane	mg/kg	ND	0.0050	11/21/17 14:49	M5
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
2,2-Dichloropropane	mg/kg	ND	0.0050	11/21/17 14:49	M5
2-Butanone (MEK)	mg/kg	ND	0.025	11/21/17 14:49	M5
2-Chlorotoluene	mg/kg	ND	0.0050	11/21/17 14:49	M5
2-Hexanone	mg/kg	ND	0.10	11/21/17 14:49	M5
4-Chlorotoluene	mg/kg	ND	0.0050	11/21/17 14:49	M5
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/21/17 14:49	M5
Acetone	mg/kg	ND	0.10	11/21/17 14:49	M5
Acrolein	mg/kg	ND	0.10	11/21/17 14:49	M5
Acrylonitrile	mg/kg	ND	0.10	11/21/17 14:49	M5
Benzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Bromobenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Bromochloromethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
Bromodichloromethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
Bromoform	mg/kg	ND	0.0050	11/21/17 14:49	M5
Bromomethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
Carbon disulfide	mg/kg	ND	0.010	11/21/17 14:49	M5
Carbon tetrachloride	mg/kg	ND	0.0050	11/21/17 14:49	M5
Chlorobenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Chloroethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
Chloroform	mg/kg	ND	0.0050	11/21/17 14:49	M5
Chloromethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/21/17 14:49	M5

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

METHOD BLANK: 1918584

Matrix: Solid

Associated Lab Samples: 50184394015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Dibromochloromethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
Dibromomethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
Ethyl methacrylate	mg/kg	ND	0.10	11/21/17 14:49	M5
Ethylbenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Iodomethane	mg/kg	ND	0.10	11/21/17 14:49	M5
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/21/17 14:49	M5
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/21/17 14:49	M5
Methylene Chloride	mg/kg	0.024	0.020	11/21/17 14:49	M5
n-Butylbenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
n-Hexane	mg/kg	ND	0.0050	11/21/17 14:49	M5
n-Propylbenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
p-Isopropyltoluene	mg/kg	ND	0.0050	11/21/17 14:49	M5
sec-Butylbenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Styrene	mg/kg	ND	0.0050	11/21/17 14:49	M5
tert-Butylbenzene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Tetrachloroethene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Toluene	mg/kg	ND	0.0050	11/21/17 14:49	M5
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/21/17 14:49	M5
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/21/17 14:49	M5
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/21/17 14:49	M5
Trichloroethene	mg/kg	ND	0.0050	11/21/17 14:49	M5
Trichlorofluoromethane	mg/kg	ND	0.0050	11/21/17 14:49	M5
Vinyl acetate	mg/kg	ND	0.10	11/21/17 14:49	M5
Vinyl chloride	mg/kg	ND	0.0050	11/21/17 14:49	M5
Xylene (Total)	mg/kg	ND	0.010	11/21/17 14:49	M5
4-Bromofluorobenzene (S)	%	97	51-142	11/21/17 14:49	M5
Dibromofluoromethane (S)	%	105	69-136	11/21/17 14:49	M5
Toluene-d8 (S)	%	97	64-150	11/21/17 14:49	M5

LABORATORY CONTROL SAMPLE: 1918585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.046	93	76-126	M5
1,1,1-Trichloroethane	mg/kg	.05	0.042	85	72-126	M5
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.047	94	68-125	M5
1,1,2-Trichloroethane	mg/kg	.05	0.049	97	72-124	M5
1,1-Dichloroethane	mg/kg	.05	0.043	86	78-117	M5
1,1-Dichloroethene	mg/kg	.05	0.047	93	70-132	M5
1,1-Dichloropropene	mg/kg	.05	0.047	93	79-121	M5
1,2,3-Trichlorobenzene	mg/kg	.05	0.044	88	65-117	M5
1,2,3-Trichloropropane	mg/kg	.05	0.049	98	78-128	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1918585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	.05	0.046	91	58-121	M5
1,2,4-Trimethylbenzene	mg/kg	.05	0.043	87	70-118	M5
1,2-Dibromoethane (EDB)	mg/kg	.05	0.049	98	76-127	M5
1,2-Dichlorobenzene	mg/kg	.05	0.047	94	72-114	M5
1,2-Dichloroethane	mg/kg	.05	0.041	83	70-119	M5
1,2-Dichloropropane	mg/kg	.05	0.047	95	76-122	M5
1,3,5-Trimethylbenzene	mg/kg	.05	0.044	88	71-122	M5
1,3-Dichlorobenzene	mg/kg	.05	0.047	95	70-115	M5
1,3-Dichloropropane	mg/kg	.05	0.051	101	76-130	M5
1,4-Dichlorobenzene	mg/kg	.05	0.049	97	68-113	M5
2,2-Dichloropropane	mg/kg	.05	0.043	87	66-125	M5
2-Butanone (MEK)	mg/kg	.25	0.30	119	56-161	M5
2-Chlorotoluene	mg/kg	.05	0.046	92	69-122	M5
2-Hexanone	mg/kg	.25	0.29	114	67-141	M5
4-Chlorotoluene	mg/kg	.05	0.047	94	70-118	M5
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.22	88	72-125	M5
Acetone	mg/kg	.25	0.39	156	24-194	M5
Acrolein	mg/kg	1	1.3	132	23-200	M5
Acrylonitrile	mg/kg	.2	0.17	85	70-122	M5
Benzene	mg/kg	.05	0.047	94	75-119	M5
Bromobenzene	mg/kg	.05	0.045	91	73-119	M5
Bromochloromethane	mg/kg	.05	0.046	93	73-117	M5
Bromodichloromethane	mg/kg	.05	0.041	82	73-120	M5
Bromoform	mg/kg	.05	0.047	94	65-121	M5
Bromomethane	mg/kg	.05	0.050	101	28-161	M5
Carbon disulfide	mg/kg	.05	0.048	96	64-115	M5
Carbon tetrachloride	mg/kg	.05	0.045	90	74-130	M5
Chlorobenzene	mg/kg	.05	0.047	95	75-114	M5
Chloroethane	mg/kg	.05	0.051	101	46-129	M5
Chloroform	mg/kg	.05	0.043	85	71-114	M5
Chloromethane	mg/kg	.05	0.048	96	39-121	M5
cis-1,2-Dichloroethene	mg/kg	.05	0.044	89	79-121	M5
cis-1,3-Dichloropropene	mg/kg	.05	0.049	98	73-132	M5
Dibromochloromethane	mg/kg	.05	0.048	96	73-123	M5
Dibromomethane	mg/kg	.05	0.046	92	79-119	M5
Dichlorodifluoromethane	mg/kg	.05	0.049	99	44-155	M5
Ethyl methacrylate	mg/kg	.2	0.20	98	74-136	M5
Ethylbenzene	mg/kg	.05	0.045	91	73-121	M5
Hexachloro-1,3-butadiene	mg/kg	.05	0.043	87	65-131	M5
Iodomethane	mg/kg	.1	0.10	103	44-168	M5
Isopropylbenzene (Cumene)	mg/kg	.05	0.046	92	72-122	M5
Methyl-tert-butyl ether	mg/kg	.05	0.044	88	74-121	M5
Methylene Chloride	mg/kg	.05	0.065	131	61-140	M5
n-Butylbenzene	mg/kg	.05	0.044	88	64-125	M5
n-Hexane	mg/kg	.05	0.044	88	69-116	M5
n-Propylbenzene	mg/kg	.05	0.046	93	70-127	M5
p-Isopropyltoluene	mg/kg	.05	0.045	89	71-123	M5

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1918585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	mg/kg	.05	0.046	92	72-129	M5
Styrene	mg/kg	.05	0.047	93	72-127	M5
tert-Butylbenzene	mg/kg	.05	0.044	89	57-108	M5
Tetrachloroethene	mg/kg	.05	0.051	102	68-120	M5
Toluene	mg/kg	.05	0.046	91	71-114	M5
trans-1,2-Dichloroethene	mg/kg	.05	0.046	93	76-125	M5
trans-1,3-Dichloropropene	mg/kg	.05	0.047	94	69-133	M5
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.19	96	58-132	M5
Trichloroethene	mg/kg	.05	0.048	95	77-115	M5
Trichlorofluoromethane	mg/kg	.05	0.050	100	61-142	M5
Vinyl acetate	mg/kg	.2	0.20	98	64-139	M5
Vinyl chloride	mg/kg	.05	0.056	112	66-139	M5
Xylene (Total)	mg/kg	.15	0.14	91	71-119	M5
4-Bromofluorobenzene (S)	%			96	51-142	M5
Dibromofluoromethane (S)	%			93	69-136	M5
Toluene-d8 (S)	%			104	64-150	M5

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch:	415539	Analysis Method:	EPA 8270 by SIM
QC Batch Method:	EPA 3546	Analysis Description:	8270 MSSV PAH by SIM
Associated Lab Samples:	50184394001, 50184394002, 50184394003, 50184394004, 50184394005, 50184394006, 50184394007, 50184394008, 50184394009, 50184394010, 50184394011, 50184394012, 50184394013, 50184394014, 50184394015, 50184394016, 50184394017, 50184394018, 50184394019, 50184394020		

METHOD BLANK: 1913326

Matrix: Solid

Associated Lab Samples: 50184394001, 50184394002, 50184394003, 50184394004, 50184394005, 50184394006, 50184394007, 50184394008, 50184394009, 50184394010, 50184394011, 50184394012, 50184394013, 50184394014, 50184394015, 50184394016, 50184394017, 50184394018, 50184394019, 50184394020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	11/16/17 21:26	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	11/16/17 21:26	
Acenaphthene	mg/kg	ND	0.0050	11/16/17 21:26	
Acenaphthylene	mg/kg	ND	0.0050	11/16/17 21:26	
Anthracene	mg/kg	ND	0.0050	11/16/17 21:26	
Benzo(a)anthracene	mg/kg	ND	0.0050	11/16/17 21:26	
Benzo(a)pyrene	mg/kg	ND	0.0050	11/16/17 21:26	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	11/16/17 21:26	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	11/16/17 21:26	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	11/16/17 21:26	
Chrysene	mg/kg	ND	0.0050	11/16/17 21:26	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	11/16/17 21:26	
Fluoranthene	mg/kg	ND	0.0050	11/16/17 21:26	
Fluorene	mg/kg	ND	0.0050	11/16/17 21:26	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	11/16/17 21:26	
Naphthalene	mg/kg	ND	0.0050	11/16/17 21:26	
Phenanthrene	mg/kg	ND	0.0050	11/16/17 21:26	
Pyrene	mg/kg	ND	0.0050	11/16/17 21:26	
2-Fluorobiphenyl (S)	%	60	30-94	11/16/17 21:26	
p-Terphenyl-d14 (S)	%	80	27-102	11/16/17 21:26	

LABORATORY CONTROL SAMPLE: 1913327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.22	65	38-105	N2
2-Methylnaphthalene	mg/kg	.33	0.22	65	38-104	
Acenaphthene	mg/kg	.33	0.22	67	39-108	
Acenaphthylene	mg/kg	.33	0.25	74	39-108	
Anthracene	mg/kg	.33	0.22	65	41-119	
Benzo(a)anthracene	mg/kg	.33	0.27	80	42-125	
Benzo(a)pyrene	mg/kg	.33	0.26	78	33-143	
Benzo(b)fluoranthene	mg/kg	.33	0.22	66	31-143	
Benzo(g,h,i)perylene	mg/kg	.33	0.23	70	34-138	
Benzo(k)fluoranthene	mg/kg	.33	0.26	79	32-140	
Chrysene	mg/kg	.33	0.25	76	44-121	
Dibenz(a,h)anthracene	mg/kg	.33	0.23	70	32-144	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1913327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	mg/kg	.33	0.27	81	42-122	
Fluorene	mg/kg	.33	0.24	71	40-114	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.23	69	33-142	
Naphthalene	mg/kg	.33	0.21	63	37-101	
Phenanthrene	mg/kg	.33	0.23	69	40-116	
Pyrene	mg/kg	.33	0.24	71	43-121	
2-Fluorobiphenyl (S)	%.			62	30-94	
p-Terphenyl-d14 (S)	%.			73	27-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913328 1913329

Parameter	Units	50184394003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1-Methylnaphthalene	mg/kg	ND	.36	.36	0.23	0.22	63	61	14-124	4	20 N2
2-Methylnaphthalene	mg/kg	ND	.36	.36	0.23	0.22	64	61	13-123	4	20
Acenaphthene	mg/kg	ND	.36	.36	0.23	0.22	65	62	20-120	5	20
Acenaphthylene	mg/kg	ND	.36	.36	0.26	0.25	71	69	22-116	3	20
Anthracene	mg/kg	ND	.36	.36	0.22	0.20	59	56	19-128	7	20
Benzo(a)anthracene	mg/kg	0.012	.36	.36	0.27	0.22	70	57	16-134	19	20
Benzo(a)pyrene	mg/kg	0.016	.36	.36	0.24	0.19	62	48	10-148	24	20 R1
Benzo(b)fluoranthene	mg/kg	0.013	.36	.36	0.21	0.16	55	42	10-148	25	20 R1
Benzo(g,h,i)perylene	mg/kg	0.017	.36	.36	0.20	0.16	51	38	10-141	26	20 R1
Benzo(k)fluoranthene	mg/kg	0.013	.36	.36	0.23	0.18	59	47	10-146	23	20 R1
Chrysene	mg/kg	0.017	.36	.36	0.25	0.21	64	53	15-133	18	20
Dibenz(a,h)anthracene	mg/kg	ND	.36	.36	0.21	0.17	56	45	10-142	23	20 R1
Fluoranthene	mg/kg	0.022	.36	.36	0.27	0.24	68	59	13-135	13	20
Fluorene	mg/kg	ND	.36	.36	0.25	0.24	69	65	21-125	7	20
Indeno(1,2,3-cd)pyrene	mg/kg	0.011	.36	.36	0.21	0.16	55	41	10-143	28	20 R1
Naphthalene	mg/kg	ND	.36	.36	0.23	0.22	62	62	12-123	1	20
Phenanthrene	mg/kg	0.012	.36	.36	0.24	0.22	63	59	13-133	7	20
Pyrene	mg/kg	0.020	.36	.36	0.23	0.20	59	51	11-137	14	20
2-Fluorobiphenyl (S)	%.						60	59	30-94		
p-Terphenyl-d14 (S)	%.						62	59	27-102		

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch: 415791 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50184394021, 50184394022, 50184394023, 50184394024

METHOD BLANK: 1914791 Matrix: Solid
Associated Lab Samples: 50184394021, 50184394022, 50184394023, 50184394024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0049	11/17/17 17:53	N2
2-Methylnaphthalene	mg/kg	ND	0.0049	11/17/17 17:53	
Acenaphthene	mg/kg	ND	0.0049	11/17/17 17:53	
Acenaphthylene	mg/kg	ND	0.0049	11/17/17 17:53	
Anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(a)anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(a)pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(b)fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(g,h,i)perylene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(k)fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Chrysene	mg/kg	ND	0.0049	11/17/17 17:53	
Dibenz(a,h)anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Fluorene	mg/kg	ND	0.0049	11/17/17 17:53	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
Naphthalene	mg/kg	ND	0.0049	11/17/17 17:53	
Phenanthrene	mg/kg	ND	0.0049	11/17/17 17:53	
Pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
2-Fluorobiphenyl (S)	%	73	30-94	11/17/17 17:53	
p-Terphenyl-d14 (S)	%	89	27-102	11/17/17 17:53	

LABORATORY CONTROL SAMPLE: 1914792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.23	69	38-105	N2
2-Methylnaphthalene	mg/kg	.33	0.23	69	38-104	
Acenaphthene	mg/kg	.33	0.22	68	39-108	
Acenaphthylene	mg/kg	.33	0.25	76	39-108	
Anthracene	mg/kg	.33	0.22	68	41-119	
Benzo(a)anthracene	mg/kg	.33	0.26	80	42-125	
Benzo(a)pyrene	mg/kg	.33	0.25	77	33-143	
Benzo(b)fluoranthene	mg/kg	.33	0.20	60	31-143	
Benzo(g,h,i)perylene	mg/kg	.33	0.23	70	34-138	
Benzo(k)fluoranthene	mg/kg	.33	0.28	84	32-140	
Chrysene	mg/kg	.33	0.25	75	44-121	
Dibenz(a,h)anthracene	mg/kg	.33	0.23	70	32-144	
Fluoranthene	mg/kg	.33	0.27	81	42-122	
Fluorene	mg/kg	.33	0.24	74	40-114	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.23	70	33-142	
Naphthalene	mg/kg	.33	0.22	67	37-101	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

LABORATORY CONTROL SAMPLE: 1914792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.23	70	40-116	
Pyrene	mg/kg	.33	0.23	70	43-121	
2-Fluorobiphenyl (S)	%.			63	30-94	
p-Terphenyl-d14 (S)	%.			73	27-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914793 1914794

Parameter	Units	50184499001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
			Spike Conc.	Spike Conc.								
1-Methylnaphthalene	mg/kg	ND	.36	.36	0.036	0.048	10	13	14-124	27	20	M1,N2, R1
2-Methylnaphthalene	mg/kg	ND	.36	.36	0.036	0.048	10	13	13-123	27	20	M1,R1
Acenaphthene	mg/kg	ND	.36	.36	0.034	0.047	9	13	20-120	32	20	M1,R1
Acenaphthylene	mg/kg	ND	.36	.36	0.039	0.053	11	15	22-116	30	20	M1,R1
Anthracene	mg/kg	ND	.36	.36	0.036	0.059	5	12	19-128	49	20	M1,R1
Benzo(a)anthracene	mg/kg	0.047	.36	.36	0.063	0.094	4	13	16-134	40	20	M1,R1
Benzo(a)pyrene	mg/kg	0.042	.36	.36	0.057	0.082	4	11	10-148	36	20	M1,R1
Benzo(b)fluoranthene	mg/kg	0.035	.36	.36	0.046	0.082	3	13	10-148	56	20	M1,R1
Benzo(g,h,i)perylene	mg/kg	0.037	.36	.36	0.048	0.069	3	9	10-141	35	20	M1,R1
Benzo(k)fluoranthene	mg/kg	0.041	.36	.36	0.062	0.075	6	10	10-146	20	20	M1
Chrysene	mg/kg	0.056	.36	.36	0.070	0.10	4	12	15-133	36	20	M1,R1
Dibenz(a,h)anthracene	mg/kg	ND	.36	.36	0.033	0.046	7	10	10-142	33	20	M1,R1
Fluoranthene	mg/kg	0.12	.36	.36	0.12	0.18	0	16	13-135	40	20	M1,R1
Fluorene	mg/kg	ND	.36	.36	0.035	0.049	10	13	21-125	33	20	M1,R1
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.36	.36	0.041	0.059	5	10	10-143	35	20	M1,R1
Naphthalene	mg/kg	ND	.36	.36	0.036	0.046	10	13	12-123	26	20	ED, M1,R1
Phenanthrene	mg/kg	0.087	.36	.36	0.095	0.14	2	16	13-133	41	20	M1,R1
Pyrene	mg/kg	0.091	.36	.36	0.091	0.14	0	12	11-137	39	20	M1,R1
2-Fluorobiphenyl (S)	%.						8	11	30-94			S4
p-Terphenyl-d14 (S)	%.						9	12	27-102			S4

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch:	415385	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540G	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	50184394001, 50184394002, 50184394003, 50184394004, 50184394005, 50184394006, 50184394007, 50184394008, 50184394009, 50184394010, 50184394011, 50184394012, 50184394013, 50184394014, 50184394015, 50184394016, 50184394017, 50184394018, 50184394019, 50184394020		

SAMPLE DUPLICATE: 1912589

Parameter	Units	50184394001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.7	16.4	8	5	R1

SAMPLE DUPLICATE: 1912590

Parameter	Units	50184394003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.8	8.2	7	5	R1

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch:	415386	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540G	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 50184394021, 50184394022, 50184394023, 50184394024			

SAMPLE DUPLICATE: 1912593

Parameter	Units	50184394021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	9.8	10	5	R1

SAMPLE DUPLICATE: 1912594

Parameter	Units	50184405009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.8	25.4	2	5	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

QC Batch: 419986

Analysis Method: EPA 7196A

QC Batch Method: EPA 3060A

Analysis Description: 7196 Chromium, Hexavalent

Associated Lab Samples: 50184394011, 50184394017

METHOD BLANK: 1935573

Matrix: Solid

Associated Lab Samples: 50184394011, 50184394017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	2.0	12/14/17 17:22	

LABORATORY CONTROL SAMPLE: 1935574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	1010	966	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1935575 1935576

Parameter	Units	50184326003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	1260	1530	1030	1160	81	76	75-125	12	20	H3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1935577 1935578

Parameter	Units	50184326003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	50	49	20.1	16.3	40	33	75-125	21	20	H3,M3,R1

SAMPLE DUPLICATE: 1935579

Parameter	Units	50184497006 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	

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

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QUALIFIERS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 415953

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

Batch: 416550

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

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 0.034 mg/kg, based on the MDL. TMW 11-21-17
2d	RPD is outside control limits due to sample non-homogeneity. FRW 11-20-17
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4	Sample was diluted due to the presence of high levels of target analytes.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
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.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALIFIERS

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184394001	SB09 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394002	SB09 (12-14)	EPA 3050	415373	EPA 6010	416176
50184394003	SB10 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394004	SB10 (14-16)	EPA 3050	415373	EPA 6010	416176
50184394005	SB11 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394006	SB11 (14-16)	EPA 3050	415373	EPA 6010	416176
50184394007	SB12 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394008	SB12 (10-12)	EPA 3050	415373	EPA 6010	416176
50184394009	SB13 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394010	SB13 (26-28)	EPA 3050	415373	EPA 6010	416176
50184394011	SB14 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394012	SB14 (6-8)	EPA 3050	415373	EPA 6010	416176
50184394013	SB15 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394014	SB15 (8-10)	EPA 3050	415373	EPA 6010	416176
50184394015	SB16 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394016	SB16 (10-12)	EPA 3050	415373	EPA 6010	416176
50184394017	SB17 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394018	SB17 (16-18)	EPA 3050	415373	EPA 6010	416176
50184394019	SB18 (0-2)	EPA 3050	415373	EPA 6010	416176
50184394020	SB18 (16-18)	EPA 3050	415373	EPA 6010	416176
50184394021	SB19 (0-2)	EPA 3050	415375	EPA 6010	416094
50184394022	SB19 (14-16)	EPA 3050	415375	EPA 6010	416094
50184394023	SB20 (0-2)	EPA 3050	415375	EPA 6010	416094
50184394024	SB20 (24-26)	EPA 3050	415375	EPA 6010	416094
50184394001	SB09 (0-2)	EPA 7471	415656	EPA 7471	415995
50184394002	SB09 (12-14)	EPA 7471	415656	EPA 7471	415995
50184394003	SB10 (0-2)	EPA 7471	415656	EPA 7471	415995
50184394004	SB10 (14-16)	EPA 7471	415656	EPA 7471	415995
50184394005	SB11 (0-2)	EPA 7471	415656	EPA 7471	415995
50184394006	SB11 (14-16)	EPA 7471	415656	EPA 7471	415995
50184394007	SB12 (0-2)	EPA 7471	415656	EPA 7471	415995
50184394008	SB12 (10-12)	EPA 7471	415656	EPA 7471	415995
50184394009	SB13 (0-2)	EPA 7471	415657	EPA 7471	416374
50184394010	SB13 (26-28)	EPA 7471	415657	EPA 7471	416374
50184394011	SB14 (0-2)	EPA 7471	415657	EPA 7471	416374
50184394012	SB14 (6-8)	EPA 7471	415657	EPA 7471	416374
50184394013	SB15 (0-2)	EPA 7471	415657	EPA 7471	416374
50184394014	SB15 (8-10)	EPA 7471	415657	EPA 7471	416374
50184394015	SB16 (0-2)	EPA 7471	415657	EPA 7471	416374
50184394016	SB16 (10-12)	EPA 7471	415657	EPA 7471	416374
50184394017	SB17 (0-2)	EPA 7471	415657	EPA 7471	416374
50184394018	SB17 (16-18)	EPA 7471	415657	EPA 7471	416374
50184394019	SB18 (0-2)	EPA 7471	415657	EPA 7471	416374
50184394020	SB18 (16-18)	EPA 7471	415657	EPA 7471	416374
50184394021	SB19 (0-2)	EPA 7471	415657	EPA 7471	416374
50184394022	SB19 (14-16)	EPA 7471	415657	EPA 7471	416374
50184394023	SB20 (0-2)	EPA 7471	415657	EPA 7471	416374

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184394024	SB20 (24-26)	EPA 7471	415657	EPA 7471	416374
50184394001	SB09 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394002	SB09 (12-14)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394003	SB10 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394004	SB10 (14-16)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394005	SB11 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394006	SB11 (14-16)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394007	SB12 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394008	SB12 (10-12)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394009	SB13 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394010	SB13 (26-28)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394011	SB14 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394012	SB14 (6-8)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394013	SB15 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394014	SB15 (8-10)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394015	SB16 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394016	SB16 (10-12)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394017	SB17 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394018	SB17 (16-18)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394019	SB18 (0-2)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394020	SB18 (16-18)	EPA 3546	415539	EPA 8270 by SIM	415714
50184394021	SB19 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184394022	SB19 (14-16)	EPA 3546	415791	EPA 8270 by SIM	415946
50184394023	SB20 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184394024	SB20 (24-26)	EPA 3546	415791	EPA 8270 by SIM	415946
50184394001	SB09 (0-2)	EPA 8260	415950		
50184394002	SB09 (12-14)	EPA 8260	415950		
50184394003	SB10 (0-2)	EPA 8260	415950		
50184394004	SB10 (14-16)	EPA 8260	416298		
50184394005	SB11 (0-2)	EPA 8260	416298		
50184394006	SB11 (14-16)	EPA 8260	416298		
50184394007	SB12 (0-2)	EPA 8260	416298		
50184394008	SB12 (10-12)	EPA 8260	416277		
50184394009	SB13 (0-2)	EPA 8260	416277		
50184394010	SB13 (26-28)	EPA 8260	416277		
50184394011	SB14 (0-2)	EPA 8260	416277		
50184394012	SB14 (6-8)	EPA 8260	416298		
50184394013	SB15 (0-2)	EPA 8260	416298		
50184394014	SB15 (8-10)	EPA 8260	416277		
50184394015	SB16 (0-2)	EPA 8260	416550		
50184394016	SB16 (10-12)	EPA 8260	415953		
50184394017	SB17 (0-2)	EPA 8260	415953		
50184394018	SB17 (16-18)	EPA 8260	415953		
50184394019	SB18 (0-2)	EPA 8260	415953		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184394020	SB18 (16-18)	EPA 8260	415953		
50184394021	SB19 (0-2)	EPA 8260	415953		
50184394022	SB19 (14-16)	EPA 8260	415953		
50184394023	SB20 (0-2)	EPA 8260	415953		
50184394024	SB20 (24-26)	EPA 8260	416277		
50184394025	TB-2	EPA 8260	416277		
50184394001	SB09 (0-2)	SM 2540G	415385		
50184394002	SB09 (12-14)	SM 2540G	415385		
50184394003	SB10 (0-2)	SM 2540G	415385		
50184394004	SB10 (14-16)	SM 2540G	415385		
50184394005	SB11 (0-2)	SM 2540G	415385		
50184394006	SB11 (14-16)	SM 2540G	415385		
50184394007	SB12 (0-2)	SM 2540G	415385		
50184394008	SB12 (10-12)	SM 2540G	415385		
50184394009	SB13 (0-2)	SM 2540G	415385		
50184394010	SB13 (26-28)	SM 2540G	415385		
50184394011	SB14 (0-2)	SM 2540G	415385		
50184394012	SB14 (6-8)	SM 2540G	415385		
50184394013	SB15 (0-2)	SM 2540G	415385		
50184394014	SB15 (8-10)	SM 2540G	415385		
50184394015	SB16 (0-2)	SM 2540G	415385		
50184394016	SB16 (10-12)	SM 2540G	415385		
50184394017	SB17 (0-2)	SM 2540G	415385		
50184394018	SB17 (16-18)	SM 2540G	415385		
50184394019	SB18 (0-2)	SM 2540G	415385		
50184394020	SB18 (16-18)	SM 2540G	415385		
50184394021	SB19 (0-2)	SM 2540G	415386		
50184394022	SB19 (14-16)	SM 2540G	415386		
50184394023	SB20 (0-2)	SM 2540G	415386		
50184394024	SB20 (24-26)	SM 2540G	415386		
50184394011	SB14 (0-2)	EPA 3060A	419986	EPA 7196A	420091
50184394017	SB17 (0-2)	EPA 3060A	419986	EPA 7196A	420091

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:				Section B Required Project Information:				Section C Invoice Information:			
Company: SNE				Report To: Christopher Shaw				Attention:			
Address: 5835 W. 74th Street				Copy To:				Company Name:			
Indianapolis, IN 46278								Address:			
Email To: shaw@sne-usa.com				Purchase Order No.:				Pace Quote Reference:			
Phone: 317-876-0200				Project Name: Convention Center - Hotel Site				Pace Project Manager:			
Fax: 317-876-0300				Project Number: 073195.00.04B.006				Pace Profile #:			
Requested Due Date/TAT: Standard											
Section D Required Client Information				Valid Matrix Codes				Requested Analysis Filtered (Y/N)			
Matrix CODE				DW				NPDES			
WATER				WT				GROUND WATER			
WASTE WATER				WW				RCRA			
PRODUCT				P				UST			
SOLID				SL				OTHER			
LIQUID				L				RCG			
WASTE				W							
AIR				A							
TISSUE				T							
SAMPLE ID				SB09 (0-2)				Pace Project No. / Lab I.D.			
(A-Z, 0-9, /, -)				SB09 (12-14)				-001			
Sample IDs MUST BE UNIQUE				SB10 (0-2)				-002			
				SB10 (14-16)				-003			
				SB11 (0-2)				-004			
				SB11 (14-16)				-005			
				SB12 (0-2)				-006			
				SB12 (10-12)				-007			
				SB13 (0-2)				-008			
				SB13 (26-28)				-009			
				SB14 (0-2)				-010			
				SB14 (6-8)				-011			
								-012			
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				ACCEPTED BY / AFFILIATION			
Level IV QA/QC				SNE				SNE Corp			
MS/MSD collected from SB10 (0-2)				11/14/17 1900				11/14/17 1900			
S-Day TAT				11/15/17 1106				11/15/17 1106			
				11-15				11/15/17 1140			
				11-15				11/15/17 1140			
SAMPLER NAME AND SIGNATURE				PRINT Name of SAMPLER: Mark Sparks				DATE Signed (MM/DD/YYYY): 11/14/2017			
				SIGNATURE of SAMPLER:							

CHAIN-OF-CUSTODY / Analytical Request Document

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[illegible]



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	SME	Report To:	Christopher Shaw	Attention:	
Address:	6835 W. 74th Street Indianapolis, IN 46278	Copy To:		Company Name:	
Email To:	shaw@sme-usa.com	Purchase Order No.:		Address:	
Phone:	317-876-0200	Project Name:	Convention Center - Hotel Site	Pace Guide Reference:	
Requested Date of Analysis:	Standard	Project Number:	073195 00.048.008	Pace Project Manager:	
				Pace Profile #:	

ITEM #	Valid Matrix Codes CODE WATER WASTE WATER PRODUCT SOLID OIL SLURRY AIR OTHER TISSE	COLLECTED		SAMPLE TYPE (G-RAB C-COMP)	MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		COMPOSITE START	COMPOSITE END/GRAB										
1	TB-2			G	TB	11/14/17	LAB	11/14/17	1900	SME Solid Sample	11/14/17	1900	
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Level IV QA/QC	ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS					
								Temp in °C	Received on	Custody	Sealed Cooler		
MSMSD collected from SB10 (0-2)		SME Solid Sample	11/15/17	1900	SME Solid Sample	11/15/17	1900						
5-Day SAS		SME Solid Sample	11/15/17	1900	SME Solid Sample	11/15/17	1900						
		SME Solid Sample	11/15/17	1900	SME Solid Sample	11/15/17	1900						
		SME Solid Sample	11/15/17	1900	SME Solid Sample	11/15/17	1900						

Requested Analysis Filtered (Y/N)		Requested Analysis	
Y	N	Analysis Test	Residual Chlorine (Y/N)
		Other	
		Methanol	
		Na ₂ S ₂ O ₃	
		NaOH	
		HCl	
		HNO ₃	
		H ₂ SO ₄	
		Unpreserved	
		VOCs via 8260	
		PAHs via 8270/8270SIM	
		RCRA Metals	

REGULATORY AGENCY		NPDES		GROUND WATER		DRINKING WATER	
UST	RCRA	UST	RCRA	UST	RCRA	UST	RCRA
Site Location	STATE:	Site Location	STATE:	Site Location	STATE:	Site Location	STATE:
IN		IN		IN		IN	

Pace Project No./ Lab I.D.	
50184394	-025

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER	Mark Sparks
SIGNATURE of SAMPLER	
DATE SIGNED (MM/DD/YYYY)	11/14/2017



Sample Condition Upon Receipt

Project # 50189394

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 ☒ Yes ☐ No ☐ N/A Samples iced, cooling process has begun

Cooler Temperature 3.8/3.8
(Initial/Corrected) Temp should be above freezing to 6°C

Ice Visible in Sample Containers: ☐ Yes ☐ No ☒ N/A

If Over 6°C, Was PM Notified? ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: <u>11/15/17 1210 HP</u>		Comments	
Are samples from West Virginia? ☐ Yes ☒ No	1.		
Document any containers out of temp.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico) ☐ Yes ☒ No	2.		
Chain of Custody Present: ☒ Yes ☐ No	3.		
Chain of Custody Filled Out: ☒ Yes ☐ No	4.		
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	5. <u>TC-3</u>	Date/Time 5035A T/C placed in Freezer: <u>11/15/17 1245</u> Short Holds Taken to Lab: _____	
Rush Turn Around Time Requested: ☐ Yes ☒ No	6.		
Containers Intact: ☒ Yes ☐ No	7.		
Sample Labels match COC: ☒ Yes ☐ No -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.	8.		
Were dissolved metals samples field filtered? ☐ Yes ☐ No ☒ N/A	9.		
All containers needing acid/base pres. have been checked? ☐ Yes ☐ No ☒ N/A 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.	10. (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc		
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	11. Present	Absent	
Residual Chlorine Check (Total/Amenable/Free Cyanide)	12. Present	Absent	
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	13.		
Headspace Wisconsin Sulfide ☐ Yes ☐ No ☒ N/A	14.		
Trip Blank Present: ☒ Yes ☐ No	Custody Seals ☒ Yes ☐ No	15.	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Sample Container Count

CLIENT: SME

COC PAGE 1 of 3
COC ID#

Project # 50184344

Matrix SIMW/NAL
(Soil/Water/Non-
Aqueous Liquid)

SBS
K
B

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGUFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	pH <2	pH >9	pH >12
1						1										3	✓		
2						1										3	✓		
3						3										9	✓		
4						1										3	✓		
5						1										1	✓		
6						1										1	✓		
7						1										1	✓		
8						1										1	✓		
9						1										1	✓		
10						1										1	✓		
11						1										1	✓		
12						1										1	✓		

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	1liter 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		
WGAU	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				

Page 181 of 112

Sample Container Count

CLIENT: SMF

COC PAGE 2 of 3

COC ID# 50184394

Project #

Sample Line Item

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

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	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		
WGAU	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				

Plastic / Misc.

BP3U	250mL unpreserved plastic
BP3Z	250mL NaOH, Zn Ac plastic
AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

December 18, 2017

Mr. Chris Shaw
SME
5835 W 74th Street
Indianapolis, IN 46278

RE: Project: Convention Center - Hotel Site
Pace Project No.: 50184497

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report: Cr+6 added to sample SB23(0-2) per client request. dss

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 003971

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-17-11

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50184497001	SB07 (0-2)	Solid	11/15/17 08:30	11/15/17 17:30
50184497002	SB21 (0-2)	Solid	11/15/17 08:40	11/15/17 17:30
50184497003	SB21 (12-14)	Solid	11/15/17 08:55	11/15/17 17:30
50184497004	SB22 (0-2)	Solid	11/15/17 09:15	11/15/17 17:30
50184497005	SB22 (28-30)	Solid	11/15/17 09:35	11/15/17 17:30
50184497006	SB23 (0-2)	Solid	11/15/17 09:55	11/15/17 17:30
50184497007	SB23 (16-18)	Solid	11/15/17 10:10	11/15/17 17:30
50184497008	SB24 (0-2)	Solid	11/15/17 10:30	11/15/17 17:30
50184497009	SB24 (12-14)	Solid	11/15/17 10:45	11/15/17 17:30
50184497010	DUP-SL3	Solid	11/15/17 08:00	11/15/17 17:30
50184497011	TB-3	Solid	11/15/17 08:00	11/15/17 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184497001	SB07 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184497002	SB21 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184497003	SB21 (12-14)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184497004	SB22 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184497005	SB22 (28-30)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184497006	SB23 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184497007	SB23 (16-18)	EPA 7196A	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
50184497008	SB24 (0-2)	SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184497009	SB24 (12-14)	EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
50184497010	DUP-SL3	EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 8260	ALA	72	PASI-I
50184497011	TB-3	SM 2540G	SKK	1	PASI-I
		EPA 8260	ALA	72	PASI-I

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184497001	SB07 (0-2)					
EPA 6010	Arsenic	13.8	mg/kg	1.0	11/20/17 11:45	
EPA 6010	Barium	70.5	mg/kg	1.0	11/20/17 11:45	
EPA 6010	Cadmium	0.60	mg/kg	0.52	11/20/17 11:45	
EPA 6010	Chromium	11.2	mg/kg	1.0	11/20/17 11:45	
EPA 6010	Lead	16.8	mg/kg	1.0	11/20/17 11:45	
EPA 6010	Selenium	2.1	mg/kg	1.0	11/20/17 11:45	
EPA 8270 by SIM	Benzo(a)anthracene	0.017	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Benzo(a)pyrene	0.018	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.016	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.019	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.022	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Chrysene	0.026	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Fluoranthene	0.031	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.013	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	1-Methylnaphthalene	0.014	mg/kg	0.0054	11/17/17 20:05	N2
EPA 8270 by SIM	2-Methylnaphthalene	0.034	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Naphthalene	0.018	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Phenanthrene	0.017	mg/kg	0.0054	11/17/17 20:05	
EPA 8270 by SIM	Pyrene	0.027	mg/kg	0.0054	11/17/17 20:05	
SM 2540G	Percent Moisture	8.1	%	0.10	11/16/17 16:58	
50184497002	SB21 (0-2)					
EPA 6010	Arsenic	11.2	mg/kg	0.98	11/20/17 11:48	
EPA 6010	Barium	54.8	mg/kg	0.98	11/20/17 11:48	
EPA 6010	Chromium	14.3	mg/kg	0.98	11/20/17 11:48	
EPA 6010	Lead	25.2	mg/kg	0.98	11/20/17 11:48	
EPA 6010	Selenium	2.2	mg/kg	0.98	11/20/17 11:48	
EPA 7471	Mercury	0.38	mg/kg	0.21	11/21/17 17:12	
EPA 8270 by SIM	Anthracene	0.0061	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Benzo(a)anthracene	0.024	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Benzo(a)pyrene	0.020	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.015	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.012	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.020	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Chrysene	0.030	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Fluoranthene	0.039	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.011	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Phenanthrene	0.028	mg/kg	0.0056	11/17/17 20:21	
EPA 8270 by SIM	Pyrene	0.041	mg/kg	0.0056	11/17/17 20:21	
SM 2540G	Percent Moisture	10.2	%	0.10	11/16/17 16:58	
50184497003	SB21 (12-14)					
EPA 6010	Arsenic	5.7	mg/kg	1.0	11/20/17 11:50	
EPA 6010	Barium	25.2	mg/kg	1.0	11/20/17 11:50	
EPA 6010	Chromium	11.7	mg/kg	1.0	11/20/17 11:50	
EPA 6010	Lead	5.8	mg/kg	1.0	11/20/17 11:50	
EPA 6010	Selenium	1.7	mg/kg	1.0	11/20/17 11:50	
EPA 8270 by SIM	Chrysene	0.0065	mg/kg	0.0054	11/17/17 20:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184497003	SB21 (12-14)					
EPA 8270 by SIM	Phenanthrene	0.0060	mg/kg	0.0054	11/17/17 20:38	
SM 2540G	Percent Moisture	7.5	%	0.10	11/16/17 16:58	
50184497004	SB22 (0-2)					
EPA 6010	Arsenic	8.6	mg/kg	1.1	11/20/17 11:53	
EPA 6010	Barium	85.1	mg/kg	1.1	11/20/17 11:53	
EPA 6010	Chromium	16.0	mg/kg	1.1	11/20/17 11:53	
EPA 6010	Lead	23.8	mg/kg	1.1	11/20/17 11:53	
EPA 6010	Selenium	1.8	mg/kg	1.1	11/20/17 11:53	
EPA 8270 by SIM	Fluoranthene	0.0059	mg/kg	0.0059	11/17/17 20:54	
SM 2540G	Percent Moisture	15.3	%	0.10	11/16/17 16:58	
50184497005	SB22 (28-30)					
EPA 6010	Arsenic	6.4	mg/kg	1.0	11/20/17 11:55	
EPA 6010	Barium	43.0	mg/kg	1.0	11/20/17 11:55	
EPA 6010	Chromium	13.2	mg/kg	1.0	11/20/17 11:55	
EPA 6010	Lead	5.6	mg/kg	1.0	11/20/17 11:55	
EPA 6010	Selenium	1.9	mg/kg	1.0	11/20/17 11:55	
SM 2540G	Percent Moisture	10.2	%	0.10	11/16/17 16:58	
50184497006	SB23 (0-2)					
EPA 6010	Arsenic	11.9	mg/kg	1.1	11/20/17 11:57	
EPA 6010	Barium	64.6	mg/kg	1.1	11/20/17 11:57	
EPA 6010	Chromium	18.3	mg/kg	1.1	11/20/17 11:57	
EPA 6010	Lead	11.3	mg/kg	1.1	11/20/17 11:57	
EPA 6010	Selenium	2.5	mg/kg	1.1	11/20/17 11:57	
SM 2540G	Percent Moisture	13.2	%	0.10	11/16/17 16:58	
50184497007	SB23 (16-18)					
EPA 6010	Arsenic	5.6	mg/kg	1.0	11/20/17 12:00	
EPA 6010	Barium	34.7	mg/kg	1.0	11/20/17 12:00	
EPA 6010	Chromium	13.0	mg/kg	1.0	11/20/17 12:00	
EPA 6010	Lead	5.2	mg/kg	1.0	11/20/17 12:00	
EPA 6010	Selenium	1.5	mg/kg	1.0	11/20/17 12:00	
SM 2540G	Percent Moisture	9.8	%	0.10	11/16/17 16:59	
50184497008	SB24 (0-2)					
EPA 6010	Arsenic	10.6	mg/kg	1.1	11/20/17 12:07	
EPA 6010	Barium	54.3	mg/kg	1.1	11/20/17 12:07	
EPA 6010	Chromium	13.0	mg/kg	1.1	11/20/17 12:07	
EPA 6010	Lead	13.2	mg/kg	1.1	11/20/17 12:07	
EPA 6010	Selenium	1.8	mg/kg	1.1	11/20/17 12:07	
EPA 8270 by SIM	Benzo(a)anthracene	0.0064	mg/kg	0.0056	11/17/17 22:00	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.0067	mg/kg	0.0056	11/17/17 22:00	
EPA 8270 by SIM	Chrysene	0.0082	mg/kg	0.0056	11/17/17 22:00	
EPA 8270 by SIM	Fluoranthene	0.014	mg/kg	0.0056	11/17/17 22:00	
EPA 8270 by SIM	Phenanthrene	0.0069	mg/kg	0.0056	11/17/17 22:00	
EPA 8270 by SIM	Pyrene	0.012	mg/kg	0.0056	11/17/17 22:00	
SM 2540G	Percent Moisture	12.0	%	0.10	11/16/17 16:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184497009	SB24 (12-14)					
EPA 6010	Arsenic	5.3	mg/kg	1.0	11/20/17 12:09	
EPA 6010	Barium	22.5	mg/kg	1.0	11/20/17 12:09	
EPA 6010	Chromium	10.1	mg/kg	1.0	11/20/17 12:09	
EPA 6010	Lead	4.8	mg/kg	1.0	11/20/17 12:09	
EPA 6010	Selenium	1.5	mg/kg	1.0	11/20/17 12:09	
SM 2540G	Percent Moisture	8.7	%	0.10	11/16/17 16:59	
50184497010	DUP-SL3					
EPA 6010	Arsenic	7.0	mg/kg	1.0	11/20/17 12:11	
EPA 6010	Barium	41.8	mg/kg	1.0	11/20/17 12:11	
EPA 6010	Chromium	11.1	mg/kg	1.0	11/20/17 12:11	
EPA 6010	Lead	5.4	mg/kg	1.0	11/20/17 12:11	
EPA 6010	Selenium	1.8	mg/kg	1.0	11/20/17 12:11	
SM 2540G	Percent Moisture	9.7	%	0.10	11/16/17 16:59	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB07 (0-2) Lab ID: 50184497001 Collected: 11/15/17 08:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	13.8	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:45	7440-38-2	
Barium	70.5	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:45	7440-39-3	
Cadmium	0.60	mg/kg	0.52	1	11/16/17 13:01	11/20/17 11:45	7440-43-9	
Chromium	11.2	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:45	7440-47-3	
Lead	16.8	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:45	7439-92-1	
Selenium	2.1	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:45	7782-49-2	
Silver	ND	mg/kg	0.52	1	11/16/17 13:01	11/20/17 11:45	7440-22-4	

7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	ND	mg/kg	0.21	1	11/21/17 10:13	11/21/17 17:10	7439-97-6	

8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	83-32-9	
Acenaphthylene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	208-96-8	
Anthracene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	120-12-7	
Benzo(a)anthracene	0.017	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	56-55-3	
Benzo(a)pyrene	0.018	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	50-32-8	
Benzo(b)fluoranthene	0.016	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	205-99-2	
Benzo(g,h,i)perylene	0.019	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	191-24-2	
Benzo(k)fluoranthene	0.022	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	207-08-9	
Chrysene	0.026	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	53-70-3	
Fluoranthene	0.031	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	206-44-0	
Fluorene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	86-73-7	
Indeno(1,2,3-cd)pyrene	0.013	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	193-39-5	
1-Methylnaphthalene	0.014	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	90-12-0	N2
2-Methylnaphthalene	0.034	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	91-57-6	
Naphthalene	0.018	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	91-20-3	
Phenanthrene	0.017	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	85-01-8	
Pyrene	0.027	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	63	%.	30-94	1	11/17/17 10:10	11/17/17 20:05	321-60-8	
p-Terphenyl-d14 (S)	72	%.	27-102	1	11/17/17 10:10	11/17/17 20:05	1718-51-0	

8260 MSV 5035A VOA

Analytical Method: EPA 8260

Acetone	ND	mg/kg	0.099	1		11/20/17 14:07	67-64-1	M5
Acrolein	ND	mg/kg	0.099	1		11/20/17 14:07	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.099	1		11/20/17 14:07	107-13-1	M5
Benzene	ND	mg/kg	0.0049	1		11/20/17 14:07	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0049	1		11/20/17 14:07	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0049	1		11/20/17 14:07	75-27-4	M5
Bromoform	ND	mg/kg	0.0049	1		11/20/17 14:07	75-25-2	M5
Bromomethane	ND	mg/kg	0.0049	1		11/20/17 14:07	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/20/17 14:07	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB07 (0-2) Lab ID: 50184497001 Collected: 11/15/17 08:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0099	1		11/20/17 14:07	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0049	1		11/20/17 14:07	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	108-90-7	M5
Chloroethane	ND	mg/kg	0.0049	1		11/20/17 14:07	75-00-3	M5
Chloroform	ND	mg/kg	0.0049	1		11/20/17 14:07	67-66-3	M5
Chloromethane	ND	mg/kg	0.0049	1		11/20/17 14:07	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0049	1		11/20/17 14:07	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0049	1		11/20/17 14:07	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0049	1		11/20/17 14:07	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		11/20/17 14:07	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0049	1		11/20/17 14:07	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.099	1		11/20/17 14:07	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		11/20/17 14:07	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0049	1		11/20/17 14:07	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0049	1		11/20/17 14:07	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0049	1		11/20/17 14:07	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/20/17 14:07	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/20/17 14:07	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0049	1		11/20/17 14:07	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0049	1		11/20/17 14:07	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0049	1		11/20/17 14:07	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0049	1		11/20/17 14:07	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/20/17 14:07	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/20/17 14:07	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.099	1		11/20/17 14:07	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		11/20/17 14:07	87-68-3	M5
n-Hexane	ND	mg/kg	0.0049	1		11/20/17 14:07	110-54-3	M5
2-Hexanone	ND	mg/kg	0.099	1		11/20/17 14:07	591-78-6	M5
Iodomethane	ND	mg/kg	0.099	1		11/20/17 14:07	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		11/20/17 14:07	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0049	1		11/20/17 14:07	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.020	1		11/20/17 14:07	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/20/17 14:07	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		11/20/17 14:07	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	103-65-1	M5
Styrene	ND	mg/kg	0.0049	1		11/20/17 14:07	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/20/17 14:07	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/20/17 14:07	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0049	1		11/20/17 14:07	127-18-4	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB07 (0-2) Lab ID: 50184497001 Collected: 11/15/17 08:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0049	1		11/20/17 14:07	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		11/20/17 14:07	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		11/20/17 14:07	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0049	1		11/20/17 14:07	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0049	1		11/20/17 14:07	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		11/20/17 14:07	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		11/20/17 14:07	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.099	1		11/20/17 14:07	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0049	1		11/20/17 14:07	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0099	1		11/20/17 14:07	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	116	%	69-136	1		11/20/17 14:07	1868-53-7	M5
Toluene-d8 (S)	126	%	64-150	1		11/20/17 14:07	2037-26-5	M5
4-Bromofluorobenzene (S)	68	%	51-142	1		11/20/17 14:07	460-00-4	M5

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	8.1	%	0.10	1		11/16/17 16:58		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB21 (0-2) Lab ID: 50184497002 Collected: 11/15/17 08:40 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	11.2	mg/kg	0.98	1	11/16/17 13:01	11/20/17 11:48	7440-38-2	
Barium	54.8	mg/kg	0.98	1	11/16/17 13:01	11/20/17 11:48	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	11/16/17 13:01	11/20/17 11:48	7440-43-9	
Chromium	14.3	mg/kg	0.98	1	11/16/17 13:01	11/20/17 11:48	7440-47-3	
Lead	25.2	mg/kg	0.98	1	11/16/17 13:01	11/20/17 11:48	7439-92-1	
Selenium	2.2	mg/kg	0.98	1	11/16/17 13:01	11/20/17 11:48	7782-49-2	
Silver	ND	mg/kg	0.49	1	11/16/17 13:01	11/20/17 11:48	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.38	mg/kg	0.21	1	11/21/17 10:13	11/21/17 17:12	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	83-32-9	
Acenaphthylene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	208-96-8	
Anthracene	0.0061	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	120-12-7	
Benzo(a)anthracene	0.024	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	56-55-3	
Benzo(a)pyrene	0.020	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	50-32-8	
Benzo(b)fluoranthene	0.015	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	205-99-2	
Benzo(g,h,i)perylene	0.012	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	191-24-2	
Benzo(k)fluoranthene	0.020	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	207-08-9	
Chrysene	0.030	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	53-70-3	
Fluoranthene	0.039	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	206-44-0	
Fluorene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.011	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	91-57-6	
Naphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	91-20-3	
Phenanthrene	0.028	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	85-01-8	
Pyrene	0.041	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 20:21	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	56	%.	30-94	1	11/17/17 10:10	11/17/17 20:21	321-60-8	
p-Terphenyl-d14 (S)	58	%.	27-102	1	11/17/17 10:10	11/17/17 20:21	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.093	1		11/20/17 14:45	67-64-1	M5
Acrolein	ND	mg/kg	0.093	1		11/20/17 14:45	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.093	1		11/20/17 14:45	107-13-1	M5
Benzene	ND	mg/kg	0.0047	1		11/20/17 14:45	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0047	1		11/20/17 14:45	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0047	1		11/20/17 14:45	75-27-4	M5
Bromoform	ND	mg/kg	0.0047	1		11/20/17 14:45	75-25-2	M5
Bromomethane	ND	mg/kg	0.0047	1		11/20/17 14:45	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.023	1		11/20/17 14:45	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB21 (0-2) Lab ID: 50184497002 Collected: 11/15/17 08:40 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0093	1		11/20/17 14:45	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0047	1		11/20/17 14:45	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	108-90-7	M5
Chloroethane	ND	mg/kg	0.0047	1		11/20/17 14:45	75-00-3	M5
Chloroform	ND	mg/kg	0.0047	1		11/20/17 14:45	67-66-3	M5
Chloromethane	ND	mg/kg	0.0047	1		11/20/17 14:45	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0047	1		11/20/17 14:45	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0047	1		11/20/17 14:45	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0047	1		11/20/17 14:45	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		11/20/17 14:45	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0047	1		11/20/17 14:45	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.093	1		11/20/17 14:45	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		11/20/17 14:45	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0047	1		11/20/17 14:45	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0047	1		11/20/17 14:45	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0047	1		11/20/17 14:45	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		11/20/17 14:45	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		11/20/17 14:45	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0047	1		11/20/17 14:45	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0047	1		11/20/17 14:45	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0047	1		11/20/17 14:45	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0047	1		11/20/17 14:45	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		11/20/17 14:45	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		11/20/17 14:45	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.093	1		11/20/17 14:45	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		11/20/17 14:45	87-68-3	M5
n-Hexane	ND	mg/kg	0.0047	1		11/20/17 14:45	110-54-3	M5
2-Hexanone	ND	mg/kg	0.093	1		11/20/17 14:45	591-78-6	M5
Iodomethane	ND	mg/kg	0.093	1		11/20/17 14:45	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		11/20/17 14:45	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0047	1		11/20/17 14:45	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.019	1		11/20/17 14:45	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		11/20/17 14:45	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		11/20/17 14:45	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	103-65-1	M5
Styrene	ND	mg/kg	0.0047	1		11/20/17 14:45	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		11/20/17 14:45	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		11/20/17 14:45	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0047	1		11/20/17 14:45	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB21 (0-2) Lab ID: 50184497002 Collected: 11/15/17 08:40 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0047	1		11/20/17 14:45	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		11/20/17 14:45	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		11/20/17 14:45	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0047	1		11/20/17 14:45	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0047	1		11/20/17 14:45	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		11/20/17 14:45	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		11/20/17 14:45	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.093	1		11/20/17 14:45	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0047	1		11/20/17 14:45	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0093	1		11/20/17 14:45	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	105	%	69-136	1		11/20/17 14:45	1868-53-7	M5
Toluene-d8 (S)	104	%	64-150	1		11/20/17 14:45	2037-26-5	M5
4-Bromofluorobenzene (S)	83	%	51-142	1		11/20/17 14:45	460-00-4	M5

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	10.2	%	0.10	1		11/16/17 16:58

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB21 (12-14) Lab ID: 50184497003 Collected: 11/15/17 08:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.7	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:50	7440-38-2	
Barium	25.2	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:50	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	11/16/17 13:01	11/20/17 11:50	7440-43-9	
Chromium	11.7	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:50	7440-47-3	
Lead	5.8	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:50	7439-92-1	
Selenium	1.7	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:50	7782-49-2	
Silver	ND	mg/kg	0.50	1	11/16/17 13:01	11/20/17 11:50	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.21	1	11/21/17 10:13	11/21/17 17:14	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	83-32-9	
Acenaphthylene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	208-96-8	
Anthracene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	207-08-9	
Chrysene	0.0065	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	53-70-3	
Fluoranthene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	206-44-0	
Fluorene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	91-57-6	
Naphthalene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	91-20-3	
Phenanthrene	0.0060	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	85-01-8	
Pyrene	ND	mg/kg	0.0054	1	11/17/17 10:10	11/17/17 20:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	64	%.	30-94	1	11/17/17 10:10	11/17/17 20:38	321-60-8	
p-Terphenyl-d14 (S)	72	%.	27-102	1	11/17/17 10:10	11/17/17 20:38	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.079	1		11/20/17 15:22	67-64-1	M5
Acrolein	ND	mg/kg	0.079	1		11/20/17 15:22	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.079	1		11/20/17 15:22	107-13-1	M5
Benzene	ND	mg/kg	0.0039	1		11/20/17 15:22	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0039	1		11/20/17 15:22	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0039	1		11/20/17 15:22	75-27-4	M5
Bromoform	ND	mg/kg	0.0039	1		11/20/17 15:22	75-25-2	M5
Bromomethane	ND	mg/kg	0.0039	1		11/20/17 15:22	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.020	1		11/20/17 15:22	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB21 (12-14) Lab ID: 50184497003 Collected: 11/15/17 08:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0079	1		11/20/17 15:22	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0039	1		11/20/17 15:22	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	108-90-7	M5
Chloroethane	ND	mg/kg	0.0039	1		11/20/17 15:22	75-00-3	M5
Chloroform	ND	mg/kg	0.0039	1		11/20/17 15:22	67-66-3	M5
Chloromethane	ND	mg/kg	0.0039	1		11/20/17 15:22	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0039	1		11/20/17 15:22	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0039	1		11/20/17 15:22	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0039	1		11/20/17 15:22	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0039	1		11/20/17 15:22	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0039	1		11/20/17 15:22	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.079	1		11/20/17 15:22	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0039	1		11/20/17 15:22	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0039	1		11/20/17 15:22	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0039	1		11/20/17 15:22	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0039	1		11/20/17 15:22	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0039	1		11/20/17 15:22	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0039	1		11/20/17 15:22	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0039	1		11/20/17 15:22	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0039	1		11/20/17 15:22	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0039	1		11/20/17 15:22	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0039	1		11/20/17 15:22	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0039	1		11/20/17 15:22	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0039	1		11/20/17 15:22	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.079	1		11/20/17 15:22	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0039	1		11/20/17 15:22	87-68-3	M5
n-Hexane	ND	mg/kg	0.0039	1		11/20/17 15:22	110-54-3	M5
2-Hexanone	ND	mg/kg	0.079	1		11/20/17 15:22	591-78-6	M5
Iodomethane	ND	mg/kg	0.079	1		11/20/17 15:22	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0039	1		11/20/17 15:22	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0039	1		11/20/17 15:22	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.016	1		11/20/17 15:22	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.020	1		11/20/17 15:22	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0039	1		11/20/17 15:22	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	103-65-1	M5
Styrene	ND	mg/kg	0.0039	1		11/20/17 15:22	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0039	1		11/20/17 15:22	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0039	1		11/20/17 15:22	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0039	1		11/20/17 15:22	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: **SB21 (12-14)** Lab ID: **50184497003** Collected: 11/15/17 08:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0039	1		11/20/17 15:22	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0039	1		11/20/17 15:22	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0039	1		11/20/17 15:22	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0039	1		11/20/17 15:22	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0039	1		11/20/17 15:22	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0039	1		11/20/17 15:22	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0039	1		11/20/17 15:22	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.079	1		11/20/17 15:22	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0039	1		11/20/17 15:22	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0079	1		11/20/17 15:22	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	120	%	69-136	1		11/20/17 15:22	1868-53-7	M5
Toluene-d8 (S)	129	%	64-150	1		11/20/17 15:22	2037-26-5	M5
4-Bromofluorobenzene (S)	68	%	51-142	1		11/20/17 15:22	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	7.5	%	0.10	1		11/16/17 16:58		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB22 (0-2) Lab ID: 50184497004 Collected: 11/15/17 09:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.6	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:53	7440-38-2	
Barium	85.1	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:53	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	11/16/17 13:01	11/20/17 11:53	7440-43-9	
Chromium	16.0	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:53	7440-47-3	
Lead	23.8	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:53	7439-92-1	
Selenium	1.8	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:53	7782-49-2	
Silver	ND	mg/kg	0.56	1	11/16/17 13:01	11/20/17 11:53	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/21/17 10:13	11/21/17 17:16	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	83-32-9	
Acenaphthylene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	208-96-8	
Anthracene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	207-08-9	
Chrysene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	53-70-3	
Fluoranthene	0.0059	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	206-44-0	
Fluorene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	91-57-6	
Naphthalene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	91-20-3	
Phenanthrene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	85-01-8	
Pyrene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/17/17 20:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	30-94	1	11/17/17 10:10	11/17/17 20:54	321-60-8	
p-Terphenyl-d14 (S)	63	%.	27-102	1	11/17/17 10:10	11/17/17 20:54	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.083	1		11/20/17 16:00	67-64-1	M5
Acrolein	ND	mg/kg	0.083	1		11/20/17 16:00	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.083	1		11/20/17 16:00	107-13-1	M5
Benzene	ND	mg/kg	0.0042	1		11/20/17 16:00	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0042	1		11/20/17 16:00	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0042	1		11/20/17 16:00	75-27-4	M5
Bromoform	ND	mg/kg	0.0042	1		11/20/17 16:00	75-25-2	M5
Bromomethane	ND	mg/kg	0.0042	1		11/20/17 16:00	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.021	1		11/20/17 16:00	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB22 (0-2) Lab ID: 50184497004 Collected: 11/15/17 09:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0083	1		11/20/17 16:00	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0042	1		11/20/17 16:00	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	108-90-7	M5
Chloroethane	ND	mg/kg	0.0042	1		11/20/17 16:00	75-00-3	M5
Chloroform	ND	mg/kg	0.0042	1		11/20/17 16:00	67-66-3	M5
Chloromethane	ND	mg/kg	0.0042	1		11/20/17 16:00	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0042	1		11/20/17 16:00	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0042	1		11/20/17 16:00	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0042	1		11/20/17 16:00	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	1		11/20/17 16:00	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0042	1		11/20/17 16:00	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.083	1		11/20/17 16:00	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0042	1		11/20/17 16:00	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0042	1		11/20/17 16:00	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0042	1		11/20/17 16:00	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0042	1		11/20/17 16:00	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/20/17 16:00	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/20/17 16:00	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0042	1		11/20/17 16:00	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0042	1		11/20/17 16:00	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0042	1		11/20/17 16:00	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0042	1		11/20/17 16:00	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/20/17 16:00	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/20/17 16:00	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.083	1		11/20/17 16:00	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	1		11/20/17 16:00	87-68-3	M5
n-Hexane	ND	mg/kg	0.0042	1		11/20/17 16:00	110-54-3	M5
2-Hexanone	ND	mg/kg	0.083	1		11/20/17 16:00	591-78-6	M5
Iodomethane	ND	mg/kg	0.083	1		11/20/17 16:00	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0042	1		11/20/17 16:00	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0042	1		11/20/17 16:00	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.017	1		11/20/17 16:00	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.021	1		11/20/17 16:00	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0042	1		11/20/17 16:00	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	103-65-1	M5
Styrene	ND	mg/kg	0.0042	1		11/20/17 16:00	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/20/17 16:00	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/20/17 16:00	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0042	1		11/20/17 16:00	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB22 (0-2) Lab ID: 50184497004 Collected: 11/15/17 09:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0042	1		11/20/17 16:00	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0042	1		11/20/17 16:00	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0042	1		11/20/17 16:00	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0042	1		11/20/17 16:00	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0042	1		11/20/17 16:00	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0042	1		11/20/17 16:00	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:00	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.083	1		11/20/17 16:00	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0042	1		11/20/17 16:00	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0083	1		11/20/17 16:00	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	106	%	69-136	1		11/20/17 16:00	1868-53-7	M5
Toluene-d8 (S)	99	%	64-150	1		11/20/17 16:00	2037-26-5	M5
4-Bromofluorobenzene (S)	93	%	51-142	1		11/20/17 16:00	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	15.3	%	0.10	1		11/16/17 16:58		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB22 (28-30) Lab ID: 50184497005 Collected: 11/15/17 09:35 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.4	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:55	7440-38-2	
Barium	43.0	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:55	7440-39-3	
Cadmium	ND	mg/kg	0.51	1	11/16/17 13:01	11/20/17 11:55	7440-43-9	
Chromium	13.2	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:55	7440-47-3	
Lead	5.6	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:55	7439-92-1	
Selenium	1.9	mg/kg	1.0	1	11/16/17 13:01	11/20/17 11:55	7782-49-2	
Silver	ND	mg/kg	0.51	1	11/16/17 13:01	11/20/17 11:55	7440-22-4	

7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	ND	mg/kg	0.22	1	11/21/17 10:13	11/21/17 17:18	7439-97-6	

8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	83-32-9	
Acenaphthylene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	208-96-8	
Anthracene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	207-08-9	
Chrysene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	53-70-3	
Fluoranthene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	206-44-0	
Fluorene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	91-57-6	
Naphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	91-20-3	
Phenanthrene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	85-01-8	
Pyrene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 21:11	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	50	%.	30-94	1	11/17/17 10:10	11/17/17 21:11	321-60-8	
p-Terphenyl-d14 (S)	46	%.	27-102	1	11/17/17 10:10	11/17/17 21:11	1718-51-0	

8260 MSV 5035A VOA

Analytical Method: EPA 8260

Acetone	ND	mg/kg	0.083	1		11/20/17 16:37	67-64-1	M5
Acrolein	ND	mg/kg	0.083	1		11/20/17 16:37	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.083	1		11/20/17 16:37	107-13-1	M5
Benzene	ND	mg/kg	0.0042	1		11/20/17 16:37	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0042	1		11/20/17 16:37	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0042	1		11/20/17 16:37	75-27-4	M5
Bromoform	ND	mg/kg	0.0042	1		11/20/17 16:37	75-25-2	M5
Bromomethane	ND	mg/kg	0.0042	1		11/20/17 16:37	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.021	1		11/20/17 16:37	78-93-3	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB22 (28-30) Lab ID: 50184497005 Collected: 11/15/17 09:35 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0083	1		11/20/17 16:37	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0042	1		11/20/17 16:37	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	108-90-7	M5
Chloroethane	ND	mg/kg	0.0042	1		11/20/17 16:37	75-00-3	M5
Chloroform	ND	mg/kg	0.0042	1		11/20/17 16:37	67-66-3	M5
Chloromethane	ND	mg/kg	0.0042	1		11/20/17 16:37	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0042	1		11/20/17 16:37	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0042	1		11/20/17 16:37	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0042	1		11/20/17 16:37	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	1		11/20/17 16:37	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0042	1		11/20/17 16:37	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.083	1		11/20/17 16:37	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0042	1		11/20/17 16:37	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0042	1		11/20/17 16:37	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0042	1		11/20/17 16:37	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0042	1		11/20/17 16:37	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/20/17 16:37	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/20/17 16:37	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0042	1		11/20/17 16:37	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0042	1		11/20/17 16:37	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0042	1		11/20/17 16:37	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0042	1		11/20/17 16:37	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/20/17 16:37	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/20/17 16:37	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.083	1		11/20/17 16:37	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	1		11/20/17 16:37	87-68-3	M5
n-Hexane	ND	mg/kg	0.0042	1		11/20/17 16:37	110-54-3	M5
2-Hexanone	ND	mg/kg	0.083	1		11/20/17 16:37	591-78-6	M5
Iodomethane	ND	mg/kg	0.083	1		11/20/17 16:37	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0042	1		11/20/17 16:37	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0042	1		11/20/17 16:37	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.017	1		11/20/17 16:37	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.021	1		11/20/17 16:37	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0042	1		11/20/17 16:37	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	103-65-1	M5
Styrene	ND	mg/kg	0.0042	1		11/20/17 16:37	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/20/17 16:37	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/20/17 16:37	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0042	1		11/20/17 16:37	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: **SB22 (28-30)** Lab ID: **50184497005** Collected: 11/15/17 09:35 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0042	1		11/20/17 16:37	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0042	1		11/20/17 16:37	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0042	1		11/20/17 16:37	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0042	1		11/20/17 16:37	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0042	1		11/20/17 16:37	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0042	1		11/20/17 16:37	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0042	1		11/20/17 16:37	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.083	1		11/20/17 16:37	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0042	1		11/20/17 16:37	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0083	1		11/20/17 16:37	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	115	%	69-136	1		11/20/17 16:37	1868-53-7	M5
Toluene-d8 (S)	127	%	64-150	1		11/20/17 16:37	2037-26-5	M5
4-Bromofluorobenzene (S)	73	%	51-142	1		11/20/17 16:37	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	10.2	%	0.10	1		11/16/17 16:58		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB23 (0-2) Lab ID: 50184497006 Collected: 11/15/17 09:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	11.9	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:57	7440-38-2	
Barium	64.6	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:57	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	11/16/17 13:01	11/20/17 11:57	7440-43-9	
Chromium	18.3	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:57	7440-47-3	
Lead	11.3	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:57	7439-92-1	
Selenium	2.5	mg/kg	1.1	1	11/16/17 13:01	11/20/17 11:57	7782-49-2	
Silver	ND	mg/kg	0.55	1	11/16/17 13:01	11/20/17 11:57	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/21/17 10:13	11/21/17 17:21	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	83-32-9	
Acenaphthylene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	208-96-8	
Anthracene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	207-08-9	
Chrysene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	53-70-3	
Fluoranthene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	206-44-0	
Fluorene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	91-57-6	
Naphthalene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	91-20-3	
Phenanthrene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	85-01-8	
Pyrene	ND	mg/kg	0.0057	1	11/17/17 10:10	11/17/17 21:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	63	%.	30-94	1	11/17/17 10:10	11/17/17 21:27	321-60-8	
p-Terphenyl-d14 (S)	68	%.	27-102	1	11/17/17 10:10	11/17/17 21:27	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.088	1		11/20/17 17:15	67-64-1	M5
Acrolein	ND	mg/kg	0.088	1		11/20/17 17:15	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.088	1		11/20/17 17:15	107-13-1	M5
Benzene	ND	mg/kg	0.0044	1		11/20/17 17:15	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0044	1		11/20/17 17:15	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0044	1		11/20/17 17:15	75-27-4	M5
Bromoform	ND	mg/kg	0.0044	1		11/20/17 17:15	75-25-2	M5
Bromomethane	ND	mg/kg	0.0044	1		11/20/17 17:15	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.022	1		11/20/17 17:15	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB23 (0-2) Lab ID: 50184497006 Collected: 11/15/17 09:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0088	1		11/20/17 17:15	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0044	1		11/20/17 17:15	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	108-90-7	M5
Chloroethane	ND	mg/kg	0.0044	1		11/20/17 17:15	75-00-3	M5
Chloroform	ND	mg/kg	0.0044	1		11/20/17 17:15	67-66-3	M5
Chloromethane	ND	mg/kg	0.0044	1		11/20/17 17:15	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0044	1		11/20/17 17:15	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0044	1		11/20/17 17:15	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0044	1		11/20/17 17:15	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0044	1		11/20/17 17:15	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0044	1		11/20/17 17:15	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.088	1		11/20/17 17:15	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0044	1		11/20/17 17:15	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0044	1		11/20/17 17:15	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0044	1		11/20/17 17:15	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 17:15	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 17:15	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 17:15	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 17:15	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 17:15	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 17:15	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 17:15	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 17:15	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 17:15	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.088	1		11/20/17 17:15	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0044	1		11/20/17 17:15	87-68-3	M5
n-Hexane	ND	mg/kg	0.0044	1		11/20/17 17:15	110-54-3	M5
2-Hexanone	ND	mg/kg	0.088	1		11/20/17 17:15	591-78-6	M5
Iodomethane	ND	mg/kg	0.088	1		11/20/17 17:15	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0044	1		11/20/17 17:15	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0044	1		11/20/17 17:15	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.018	1		11/20/17 17:15	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		11/20/17 17:15	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0044	1		11/20/17 17:15	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	103-65-1	M5
Styrene	ND	mg/kg	0.0044	1		11/20/17 17:15	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/20/17 17:15	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/20/17 17:15	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0044	1		11/20/17 17:15	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB23 (0-2) Lab ID: 50184497006 Collected: 11/15/17 09:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0044	1		11/20/17 17:15	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0044	1		11/20/17 17:15	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0044	1		11/20/17 17:15	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0044	1		11/20/17 17:15	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0044	1		11/20/17 17:15	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0044	1		11/20/17 17:15	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:15	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.088	1		11/20/17 17:15	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0044	1		11/20/17 17:15	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0088	1		11/20/17 17:15	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	105	%	69-136	1		11/20/17 17:15	1868-53-7	M5
Toluene-d8 (S)	98	%	64-150	1		11/20/17 17:15	2037-26-5	M5
4-Bromofluorobenzene (S)	91	%	51-142	1		11/20/17 17:15	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	13.2	%	0.10	1		11/16/17 16:58		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 3060A						
Chromium, Hexavalent	ND	mg/kg	2.3	1	12/14/17 11:42	12/14/17 17:47	18540-29-9	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB23 (16-18) **Lab ID: 50184497007** Collected: 11/15/17 10:10 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.6	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:00	7440-38-2	
Barium	34.7	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:00	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	11/16/17 13:01	11/20/17 12:00	7440-43-9	
Chromium	13.0	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:00	7440-47-3	
Lead	5.2	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:00	7439-92-1	
Selenium	1.5	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:00	7782-49-2	
Silver	ND	mg/kg	0.50	1	11/16/17 13:01	11/20/17 12:00	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/21/17 10:13	11/21/17 17:23	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 21:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	30-94	1	11/17/17 10:10	11/17/17 21:44	321-60-8	
p-Terphenyl-d14 (S)	62	%.	27-102	1	11/17/17 10:10	11/17/17 21:44	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.089	1		11/20/17 17:53	67-64-1	M5
Acrolein	ND	mg/kg	0.089	1		11/20/17 17:53	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.089	1		11/20/17 17:53	107-13-1	M5
Benzene	ND	mg/kg	0.0044	1		11/20/17 17:53	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0044	1		11/20/17 17:53	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0044	1		11/20/17 17:53	75-27-4	M5
Bromoform	ND	mg/kg	0.0044	1		11/20/17 17:53	75-25-2	M5
Bromomethane	ND	mg/kg	0.0044	1		11/20/17 17:53	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.022	1		11/20/17 17:53	78-93-3	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB23 (16-18) Lab ID: 50184497007 Collected: 11/15/17 10:10 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0089	1		11/20/17 17:53	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0044	1		11/20/17 17:53	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	108-90-7	M5
Chloroethane	ND	mg/kg	0.0044	1		11/20/17 17:53	75-00-3	M5
Chloroform	ND	mg/kg	0.0044	1		11/20/17 17:53	67-66-3	M5
Chloromethane	ND	mg/kg	0.0044	1		11/20/17 17:53	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0044	1		11/20/17 17:53	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0044	1		11/20/17 17:53	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0044	1		11/20/17 17:53	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0044	1		11/20/17 17:53	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0044	1		11/20/17 17:53	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.089	1		11/20/17 17:53	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0044	1		11/20/17 17:53	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0044	1		11/20/17 17:53	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0044	1		11/20/17 17:53	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 17:53	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 17:53	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 17:53	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 17:53	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 17:53	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 17:53	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 17:53	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 17:53	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 17:53	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.089	1		11/20/17 17:53	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0044	1		11/20/17 17:53	87-68-3	M5
n-Hexane	ND	mg/kg	0.0044	1		11/20/17 17:53	110-54-3	M5
2-Hexanone	ND	mg/kg	0.089	1		11/20/17 17:53	591-78-6	M5
Iodomethane	ND	mg/kg	0.089	1		11/20/17 17:53	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0044	1		11/20/17 17:53	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0044	1		11/20/17 17:53	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.018	1		11/20/17 17:53	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		11/20/17 17:53	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0044	1		11/20/17 17:53	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	103-65-1	M5
Styrene	ND	mg/kg	0.0044	1		11/20/17 17:53	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/20/17 17:53	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/20/17 17:53	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0044	1		11/20/17 17:53	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: **SB23 (16-18)** Lab ID: **50184497007** Collected: 11/15/17 10:10 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0044	1		11/20/17 17:53	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0044	1		11/20/17 17:53	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0044	1		11/20/17 17:53	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0044	1		11/20/17 17:53	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0044	1		11/20/17 17:53	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0044	1		11/20/17 17:53	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0044	1		11/20/17 17:53	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.089	1		11/20/17 17:53	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0044	1		11/20/17 17:53	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0089	1		11/20/17 17:53	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	119	%	69-136	1		11/20/17 17:53	1868-53-7	M5
Toluene-d8 (S)	127	%	64-150	1		11/20/17 17:53	2037-26-5	M5
4-Bromofluorobenzene (S)	70	%	51-142	1		11/20/17 17:53	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	9.8	%	0.10	1		11/16/17 16:59		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB24 (0-2) Lab ID: 50184497008 Collected: 11/15/17 10:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	10.6	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:07	7440-38-2	
Barium	54.3	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:07	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	11/16/17 13:01	11/20/17 12:07	7440-43-9	
Chromium	13.0	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:07	7440-47-3	
Lead	13.2	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:07	7439-92-1	
Selenium	1.8	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:07	7782-49-2	
Silver	ND	mg/kg	0.53	1	11/16/17 13:01	11/20/17 12:07	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.21	1	11/21/17 10:13	11/21/17 17:25	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	83-32-9	
Acenaphthylene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	208-96-8	
Anthracene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	120-12-7	
Benzo(a)anthracene	0.0064	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	191-24-2	
Benzo(k)fluoranthene	0.0067	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	207-08-9	
Chrysene	0.0082	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	53-70-3	
Fluoranthene	0.014	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	206-44-0	
Fluorene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	91-57-6	
Naphthalene	ND	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	91-20-3	
Phenanthrene	0.0069	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	85-01-8	
Pyrene	0.012	mg/kg	0.0056	1	11/17/17 10:10	11/17/17 22:00	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	61	%.	30-94	1	11/17/17 10:10	11/17/17 22:00	321-60-8	
p-Terphenyl-d14 (S)	62	%.	27-102	1	11/17/17 10:10	11/17/17 22:00	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.088	1		11/20/17 18:30	67-64-1	M5
Acrolein	ND	mg/kg	0.088	1		11/20/17 18:30	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.088	1		11/20/17 18:30	107-13-1	M5
Benzene	ND	mg/kg	0.0044	1		11/20/17 18:30	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0044	1		11/20/17 18:30	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0044	1		11/20/17 18:30	75-27-4	M5
Bromoform	ND	mg/kg	0.0044	1		11/20/17 18:30	75-25-2	M5
Bromomethane	ND	mg/kg	0.0044	1		11/20/17 18:30	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.022	1		11/20/17 18:30	78-93-3	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB24 (0-2) Lab ID: 50184497008 Collected: 11/15/17 10:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0088	1		11/20/17 18:30	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0044	1		11/20/17 18:30	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	108-90-7	M5
Chloroethane	ND	mg/kg	0.0044	1		11/20/17 18:30	75-00-3	M5
Chloroform	ND	mg/kg	0.0044	1		11/20/17 18:30	67-66-3	M5
Chloromethane	ND	mg/kg	0.0044	1		11/20/17 18:30	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0044	1		11/20/17 18:30	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0044	1		11/20/17 18:30	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0044	1		11/20/17 18:30	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0044	1		11/20/17 18:30	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0044	1		11/20/17 18:30	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.088	1		11/20/17 18:30	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0044	1		11/20/17 18:30	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0044	1		11/20/17 18:30	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0044	1		11/20/17 18:30	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 18:30	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 18:30	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/20/17 18:30	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 18:30	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 18:30	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0044	1		11/20/17 18:30	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 18:30	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 18:30	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/20/17 18:30	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.088	1		11/20/17 18:30	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0044	1		11/20/17 18:30	87-68-3	M5
n-Hexane	ND	mg/kg	0.0044	1		11/20/17 18:30	110-54-3	M5
2-Hexanone	ND	mg/kg	0.088	1		11/20/17 18:30	591-78-6	M5
Iodomethane	ND	mg/kg	0.088	1		11/20/17 18:30	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0044	1		11/20/17 18:30	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0044	1		11/20/17 18:30	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.018	1		11/20/17 18:30	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		11/20/17 18:30	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0044	1		11/20/17 18:30	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	103-65-1	M5
Styrene	ND	mg/kg	0.0044	1		11/20/17 18:30	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/20/17 18:30	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/20/17 18:30	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0044	1		11/20/17 18:30	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB24 (0-2) Lab ID: 50184497008 Collected: 11/15/17 10:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0044	1		11/20/17 18:30	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0044	1		11/20/17 18:30	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0044	1		11/20/17 18:30	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0044	1		11/20/17 18:30	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0044	1		11/20/17 18:30	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0044	1		11/20/17 18:30	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0044	1		11/20/17 18:30	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.088	1		11/20/17 18:30	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0044	1		11/20/17 18:30	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0088	1		11/20/17 18:30	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	104	%	69-136	1		11/20/17 18:30	1868-53-7	M5
Toluene-d8 (S)	103	%	64-150	1		11/20/17 18:30	2037-26-5	M5
4-Bromofluorobenzene (S)	89	%	51-142	1		11/20/17 18:30	460-00-4	M5
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	12.0	%	0.10	1		11/16/17 16:59		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB24 (12-14) **Lab ID: 50184497009** Collected: 11/15/17 10:45 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.3	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:09	7440-38-2	
Barium	22.5	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:09	7440-39-3	
Cadmium	ND	mg/kg	0.52	1	11/16/17 13:01	11/20/17 12:09	7440-43-9	
Chromium	10.1	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:09	7440-47-3	
Lead	4.8	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:09	7439-92-1	
Selenium	1.5	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:09	7782-49-2	
Silver	ND	mg/kg	0.52	1	11/16/17 13:01	11/20/17 12:09	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/21/17 10:13	11/21/17 17:31	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	30-94	1	11/17/17 10:10	11/17/17 22:17	321-60-8	
p-Terphenyl-d14 (S)	56	%.	27-102	1	11/17/17 10:10	11/17/17 22:17	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.079	1		11/20/17 19:08	67-64-1	M5
Acrolein	ND	mg/kg	0.079	1		11/20/17 19:08	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.079	1		11/20/17 19:08	107-13-1	M5
Benzene	ND	mg/kg	0.0039	1		11/20/17 19:08	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0039	1		11/20/17 19:08	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0039	1		11/20/17 19:08	75-27-4	M5
Bromoform	ND	mg/kg	0.0039	1		11/20/17 19:08	75-25-2	M5
Bromomethane	ND	mg/kg	0.0039	1		11/20/17 19:08	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.020	1		11/20/17 19:08	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: SB24 (12-14) Lab ID: 50184497009 Collected: 11/15/17 10:45 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0079	1		11/20/17 19:08	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0039	1		11/20/17 19:08	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	108-90-7	M5
Chloroethane	ND	mg/kg	0.0039	1		11/20/17 19:08	75-00-3	M5
Chloroform	ND	mg/kg	0.0039	1		11/20/17 19:08	67-66-3	M5
Chloromethane	ND	mg/kg	0.0039	1		11/20/17 19:08	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0039	1		11/20/17 19:08	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0039	1		11/20/17 19:08	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0039	1		11/20/17 19:08	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0039	1		11/20/17 19:08	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0039	1		11/20/17 19:08	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.079	1		11/20/17 19:08	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0039	1		11/20/17 19:08	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0039	1		11/20/17 19:08	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0039	1		11/20/17 19:08	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0039	1		11/20/17 19:08	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0039	1		11/20/17 19:08	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0039	1		11/20/17 19:08	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0039	1		11/20/17 19:08	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0039	1		11/20/17 19:08	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0039	1		11/20/17 19:08	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0039	1		11/20/17 19:08	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0039	1		11/20/17 19:08	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0039	1		11/20/17 19:08	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.079	1		11/20/17 19:08	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0039	1		11/20/17 19:08	87-68-3	M5
n-Hexane	ND	mg/kg	0.0039	1		11/20/17 19:08	110-54-3	M5
2-Hexanone	ND	mg/kg	0.079	1		11/20/17 19:08	591-78-6	M5
Iodomethane	ND	mg/kg	0.079	1		11/20/17 19:08	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0039	1		11/20/17 19:08	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0039	1		11/20/17 19:08	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.016	1		11/20/17 19:08	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.020	1		11/20/17 19:08	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0039	1		11/20/17 19:08	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	103-65-1	M5
Styrene	ND	mg/kg	0.0039	1		11/20/17 19:08	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0039	1		11/20/17 19:08	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0039	1		11/20/17 19:08	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0039	1		11/20/17 19:08	127-18-4	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: **SB24 (12-14)** Lab ID: **50184497009** Collected: 11/15/17 10:45 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0039	1		11/20/17 19:08	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0039	1		11/20/17 19:08	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0039	1		11/20/17 19:08	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0039	1		11/20/17 19:08	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0039	1		11/20/17 19:08	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0039	1		11/20/17 19:08	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0039	1		11/20/17 19:08	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.079	1		11/20/17 19:08	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0039	1		11/20/17 19:08	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0079	1		11/20/17 19:08	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	118	%	69-136	1		11/20/17 19:08	1868-53-7	M5
Toluene-d8 (S)	126	%	64-150	1		11/20/17 19:08	2037-26-5	M5
4-Bromofluorobenzene (S)	73	%	51-142	1		11/20/17 19:08	460-00-4	M5

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	8.7	%	0.10	1		11/16/17 16:59

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: DUP-SL3 **Lab ID: 50184497010** Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.0	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:11	7440-38-2	
Barium	41.8	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:11	7440-39-3	
Cadmium	ND	mg/kg	0.52	1	11/16/17 13:01	11/20/17 12:11	7440-43-9	
Chromium	11.1	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:11	7440-47-3	
Lead	5.4	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:11	7439-92-1	
Selenium	1.8	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:11	7782-49-2	
Silver	ND	mg/kg	0.52	1	11/16/17 13:01	11/20/17 12:11	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/21/17 10:13	11/21/17 17:33	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 22:33	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	53	%.	30-94	1	11/17/17 10:10	11/17/17 22:33	321-60-8	
p-Terphenyl-d14 (S)	46	%.	27-102	1	11/17/17 10:10	11/17/17 22:33	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.086	1		11/20/17 19:46	67-64-1	M5
Acrolein	ND	mg/kg	0.086	1		11/20/17 19:46	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.086	1		11/20/17 19:46	107-13-1	M5
Benzene	ND	mg/kg	0.0043	1		11/20/17 19:46	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0043	1		11/20/17 19:46	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0043	1		11/20/17 19:46	75-27-4	M5
Bromoform	ND	mg/kg	0.0043	1		11/20/17 19:46	75-25-2	M5
Bromomethane	ND	mg/kg	0.0043	1		11/20/17 19:46	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.022	1		11/20/17 19:46	78-93-3	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: DUP-SL3 Lab ID: 50184497010 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.0086	1		11/20/17 19:46	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0043	1		11/20/17 19:46	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	108-90-7	M5
Chloroethane	ND	mg/kg	0.0043	1		11/20/17 19:46	75-00-3	M5
Chloroform	ND	mg/kg	0.0043	1		11/20/17 19:46	67-66-3	M5
Chloromethane	ND	mg/kg	0.0043	1		11/20/17 19:46	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0043	1		11/20/17 19:46	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0043	1		11/20/17 19:46	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0043	1		11/20/17 19:46	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0043	1		11/20/17 19:46	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0043	1		11/20/17 19:46	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.086	1		11/20/17 19:46	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0043	1		11/20/17 19:46	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0043	1		11/20/17 19:46	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0043	1		11/20/17 19:46	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0043	1		11/20/17 19:46	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0043	1		11/20/17 19:46	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0043	1		11/20/17 19:46	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0043	1		11/20/17 19:46	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0043	1		11/20/17 19:46	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0043	1		11/20/17 19:46	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0043	1		11/20/17 19:46	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0043	1		11/20/17 19:46	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0043	1		11/20/17 19:46	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.086	1		11/20/17 19:46	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0043	1		11/20/17 19:46	87-68-3	M5
n-Hexane	ND	mg/kg	0.0043	1		11/20/17 19:46	110-54-3	M5
2-Hexanone	ND	mg/kg	0.086	1		11/20/17 19:46	591-78-6	M5
Iodomethane	ND	mg/kg	0.086	1		11/20/17 19:46	74-88-4	M5
Isopropylbenzene (Cumene)	ND	mg/kg	0.0043	1		11/20/17 19:46	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0043	1		11/20/17 19:46	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.017	1		11/20/17 19:46	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		11/20/17 19:46	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0043	1		11/20/17 19:46	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	103-65-1	M5
Styrene	ND	mg/kg	0.0043	1		11/20/17 19:46	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0043	1		11/20/17 19:46	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0043	1		11/20/17 19:46	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0043	1		11/20/17 19:46	127-18-4	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: DUP-SL3 Lab ID: 50184497010 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0043	1		11/20/17 19:46	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0043	1		11/20/17 19:46	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0043	1		11/20/17 19:46	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0043	1		11/20/17 19:46	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0043	1		11/20/17 19:46	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0043	1		11/20/17 19:46	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0043	1		11/20/17 19:46	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.086	1		11/20/17 19:46	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0043	1		11/20/17 19:46	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.0086	1		11/20/17 19:46	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	115	%	69-136	1		11/20/17 19:46	1868-53-7	M5
Toluene-d8 (S)	126	%	64-150	1		11/20/17 19:46	2037-26-5	M5
4-Bromofluorobenzene (S)	73	%	51-142	1		11/20/17 19:46	460-00-4	M5

Percent Moisture

Analytical Method: SM 2540G

Percent Moisture	9.7	%	0.10	1		11/16/17 16:59

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: TB-3 Lab ID: 50184497011 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	mg/kg	0.10	1		11/20/17 20:23	67-64-1	M5
Acrolein	ND	mg/kg	0.10	1		11/20/17 20:23	107-02-8	M5
Acrylonitrile	ND	mg/kg	0.10	1		11/20/17 20:23	107-13-1	M5
Benzene	ND	mg/kg	0.0050	1		11/20/17 20:23	71-43-2	M5
Bromobenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	108-86-1	M5
Bromochloromethane	ND	mg/kg	0.0050	1		11/20/17 20:23	74-97-5	M5
Bromodichloromethane	ND	mg/kg	0.0050	1		11/20/17 20:23	75-27-4	M5
Bromoform	ND	mg/kg	0.0050	1		11/20/17 20:23	75-25-2	M5
Bromomethane	ND	mg/kg	0.0050	1		11/20/17 20:23	74-83-9	M5
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/20/17 20:23	78-93-3	M5
n-Butylbenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	104-51-8	M5
sec-Butylbenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	135-98-8	M5
tert-Butylbenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	98-06-6	M5
Carbon disulfide	ND	mg/kg	0.010	1		11/20/17 20:23	75-15-0	M5
Carbon tetrachloride	ND	mg/kg	0.0050	1		11/20/17 20:23	56-23-5	M5
Chlorobenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	108-90-7	M5
Chloroethane	ND	mg/kg	0.0050	1		11/20/17 20:23	75-00-3	M5
Chloroform	ND	mg/kg	0.0050	1		11/20/17 20:23	67-66-3	M5
Chloromethane	ND	mg/kg	0.0050	1		11/20/17 20:23	74-87-3	M5
2-Chlorotoluene	ND	mg/kg	0.0050	1		11/20/17 20:23	95-49-8	M5
4-Chlorotoluene	ND	mg/kg	0.0050	1		11/20/17 20:23	106-43-4	M5
Dibromochloromethane	ND	mg/kg	0.0050	1		11/20/17 20:23	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		11/20/17 20:23	106-93-4	M5
Dibromomethane	ND	mg/kg	0.0050	1		11/20/17 20:23	74-95-3	M5
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	95-50-1	M5
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	541-73-1	M5
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/20/17 20:23	110-57-6	M5
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		11/20/17 20:23	75-71-8	M5
1,1-Dichloroethane	ND	mg/kg	0.0050	1		11/20/17 20:23	75-34-3	M5
1,2-Dichloroethane	ND	mg/kg	0.0050	1		11/20/17 20:23	107-06-2	M5
1,1-Dichloroethene	ND	mg/kg	0.0050	1		11/20/17 20:23	75-35-4	M5
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/20/17 20:23	156-59-2	M5
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/20/17 20:23	156-60-5	M5
1,2-Dichloropropane	ND	mg/kg	0.0050	1		11/20/17 20:23	78-87-5	M5
1,3-Dichloropropane	ND	mg/kg	0.0050	1		11/20/17 20:23	142-28-9	M5
2,2-Dichloropropane	ND	mg/kg	0.0050	1		11/20/17 20:23	594-20-7	M5
1,1-Dichloropropene	ND	mg/kg	0.0050	1		11/20/17 20:23	563-58-6	M5
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/20/17 20:23	10061-01-5	M5
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/20/17 20:23	10061-02-6	M5
Ethylbenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	100-41-4	M5
Ethyl methacrylate	ND	mg/kg	0.10	1		11/20/17 20:23	97-63-2	M5
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		11/20/17 20:23	87-68-3	M5
n-Hexane	ND	mg/kg	0.0050	1		11/20/17 20:23	110-54-3	M5
2-Hexanone	ND	mg/kg	0.10	1		11/20/17 20:23	591-78-6	M5
Iodomethane	ND	mg/kg	0.10	1		11/20/17 20:23	74-88-4	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Sample: TB-3 Lab ID: 50184497011 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		11/20/17 20:23	98-82-8	M5
p-Isopropyltoluene	ND	mg/kg	0.0050	1		11/20/17 20:23	99-87-6	M5
Methylene Chloride	ND	mg/kg	0.020	1		11/20/17 20:23	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/20/17 20:23	108-10-1	M5
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		11/20/17 20:23	1634-04-4	M5
n-Propylbenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	103-65-1	M5
Styrene	ND	mg/kg	0.0050	1		11/20/17 20:23	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/20/17 20:23	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/20/17 20:23	79-34-5	M5
Tetrachloroethene	ND	mg/kg	0.0050	1		11/20/17 20:23	127-18-4	M5
Toluene	ND	mg/kg	0.0050	1		11/20/17 20:23	108-88-3	M5
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	87-61-6	M5
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	120-82-1	M5
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		11/20/17 20:23	71-55-6	M5
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		11/20/17 20:23	79-00-5	M5
Trichloroethene	ND	mg/kg	0.0050	1		11/20/17 20:23	79-01-6	M5
Trichlorofluoromethane	ND	mg/kg	0.0050	1		11/20/17 20:23	75-69-4	M5
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		11/20/17 20:23	96-18-4	M5
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	95-63-6	M5
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		11/20/17 20:23	108-67-8	M5
Vinyl acetate	ND	mg/kg	0.10	1		11/20/17 20:23	108-05-4	M5
Vinyl chloride	ND	mg/kg	0.0050	1		11/20/17 20:23	75-01-4	M5
Xylene (Total)	ND	mg/kg	0.010	1		11/20/17 20:23	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	106	%.	69-136	1		11/20/17 20:23	1868-53-7	M5
Toluene-d8 (S)	94	%.	64-150	1		11/20/17 20:23	2037-26-5	M5
4-Bromofluorobenzene (S)	99	%.	51-142	1		11/20/17 20:23	460-00-4	M5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

QC Batch:	416352	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010		

METHOD BLANK:	1917406	Matrix:	Solid
Associated Lab Samples:	50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.19	11/21/17 17:06	

LABORATORY CONTROL SAMPLE: 1917407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.49	0.48	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917408 1917409

Parameter	Units	50184499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.47	.57	.56	1.1	1.0	105	99	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site
Pace Project No.: 50184497

QC Batch: 415570 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010

METHOD BLANK: 1913440 Matrix: Solid
Associated Lab Samples: 50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	11/20/17 11:43	
Barium	mg/kg	ND	1.0	11/20/17 11:43	
Cadmium	mg/kg	ND	0.50	11/20/17 11:43	
Chromium	mg/kg	ND	1.0	11/20/17 11:43	
Lead	mg/kg	ND	1.0	11/20/17 11:43	
Selenium	mg/kg	ND	1.0	11/20/17 11:43	
Silver	mg/kg	ND	0.50	11/20/17 11:43	

LABORATORY CONTROL SAMPLE: 1913441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.6	101	80-120	
Barium	mg/kg	50	50.2	100	80-120	
Cadmium	mg/kg	50	49.2	98	80-120	
Chromium	mg/kg	50	50.7	101	80-120	
Lead	mg/kg	50	47.4	95	80-120	
Selenium	mg/kg	50	50.4	101	80-120	
Silver	mg/kg	25	25.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913442 1913443

Parameter	Units	50184499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	9.4	48.3	49	58.4	57.7	101	99	75-125	1	20	
Barium	mg/kg	121	48.3	49	168	160	97	80	75-125	4	20	
Cadmium	mg/kg	0.98	48.3	49	49.4	50.0	100	100	75-125	1	20	
Chromium	mg/kg	11.6	48.3	49	56.2	54.1	92	87	75-125	4	20	
Lead	mg/kg	132	48.3	49	180	211	99	162	75-125	16	20 MO	
Selenium	mg/kg	1.8	48.3	49	46.7	47.8	93	94	75-125	2	20	
Silver	mg/kg	ND	24.2	24.5	25.3	25.4	103	102	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

QC Batch:	416247	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010, 50184497011		

METHOD BLANK:	1916991	Matrix:	Solid
Associated Lab Samples:	50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010, 50184497011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,1-Dichloroethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,1-Dichloroethene	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,1-Dichloropropene	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,2-Dichloroethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,2-Dichloropropane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,3-Dichloropropane	mg/kg	ND	0.0050	11/20/17 13:29	M5
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
2,2-Dichloropropane	mg/kg	ND	0.0050	11/20/17 13:29	M5
2-Butanone (MEK)	mg/kg	ND	0.025	11/20/17 13:29	M5
2-Chlorotoluene	mg/kg	ND	0.0050	11/20/17 13:29	M5
2-Hexanone	mg/kg	ND	0.10	11/20/17 13:29	M5
4-Chlorotoluene	mg/kg	ND	0.0050	11/20/17 13:29	M5
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/20/17 13:29	M5
Acetone	mg/kg	ND	0.10	11/20/17 13:29	M5
Acrolein	mg/kg	ND	0.10	11/20/17 13:29	M5
Acrylonitrile	mg/kg	ND	0.10	11/20/17 13:29	M5
Benzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Bromobenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Bromochloromethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
Bromodichloromethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
Bromoform	mg/kg	ND	0.0050	11/20/17 13:29	M5
Bromomethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
Carbon disulfide	mg/kg	ND	0.010	11/20/17 13:29	M5
Carbon tetrachloride	mg/kg	ND	0.0050	11/20/17 13:29	M5
Chlorobenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Chloroethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
Chloroform	mg/kg	ND	0.0050	11/20/17 13:29	M5
Chloromethane	mg/kg	ND	0.0050	11/20/17 13:29	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

METHOD BLANK: 1916991

Matrix: Solid

Associated Lab Samples: 50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010, 50184497011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/20/17 13:29	M5
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Dibromochloromethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
Dibromomethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
Ethyl methacrylate	mg/kg	ND	0.10	11/20/17 13:29	M5
Ethylbenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Iodomethane	mg/kg	ND	0.10	11/20/17 13:29	M5
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/20/17 13:29	M5
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/20/17 13:29	M5
Methylene Chloride	mg/kg	ND	0.020	11/20/17 13:29	M5
n-Butylbenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
n-Hexane	mg/kg	ND	0.0050	11/20/17 13:29	M5
n-Propylbenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
p-Isopropyltoluene	mg/kg	ND	0.0050	11/20/17 13:29	M5
sec-Butylbenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Styrene	mg/kg	ND	0.0050	11/20/17 13:29	M5
tert-Butylbenzene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Tetrachloroethene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Toluene	mg/kg	ND	0.0050	11/20/17 13:29	M5
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/20/17 13:29	M5
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/20/17 13:29	M5
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/20/17 13:29	M5
Trichloroethene	mg/kg	ND	0.0050	11/20/17 13:29	M5
Trichlorofluoromethane	mg/kg	ND	0.0050	11/20/17 13:29	M5
Vinyl acetate	mg/kg	ND	0.10	11/20/17 13:29	M5
Vinyl chloride	mg/kg	ND	0.0050	11/20/17 13:29	M5
Xylene (Total)	mg/kg	ND	0.010	11/20/17 13:29	M5
4-Bromofluorobenzene (S)	%	99	51-142	11/20/17 13:29	M5
Dibromofluoromethane (S)	%	103	69-136	11/20/17 13:29	M5
Toluene-d8 (S)	%	95	64-150	11/20/17 13:29	M5

LABORATORY CONTROL SAMPLE: 1916992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.050	99	76-126	M5
1,1,1-Trichloroethane	mg/kg	.05	0.047	94	72-126	M5
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.048	96	68-125	M5
1,1,2-Trichloroethane	mg/kg	.05	0.048	97	72-124	M5
1,1-Dichloroethane	mg/kg	.05	0.047	93	78-117	M5
1,1-Dichloroethene	mg/kg	.05	0.041	82	70-132	M5
1,1-Dichloropropene	mg/kg	.05	0.046	92	79-121	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

LABORATORY CONTROL SAMPLE: 1916992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	.05	0.044	88	65-117	M5
1,2,3-Trichloropropane	mg/kg	.05	0.049	97	78-128	M5
1,2,4-Trichlorobenzene	mg/kg	.05	0.046	92	58-121	M5
1,2,4-Trimethylbenzene	mg/kg	.05	0.045	91	70-118	M5
1,2-Dibromoethane (EDB)	mg/kg	.05	0.050	101	76-127	M5
1,2-Dichlorobenzene	mg/kg	.05	0.046	93	72-114	M5
1,2-Dichloroethane	mg/kg	.05	0.046	91	70-119	M5
1,2-Dichloropropane	mg/kg	.05	0.053	105	76-122	M5
1,3,5-Trimethylbenzene	mg/kg	.05	0.046	93	71-122	M5
1,3-Dichlorobenzene	mg/kg	.05	0.047	95	70-115	M5
1,3-Dichloropropane	mg/kg	.05	0.050	101	76-130	M5
1,4-Dichlorobenzene	mg/kg	.05	0.046	92	68-113	M5
2,2-Dichloropropane	mg/kg	.05	0.049	99	66-125	M5
2-Butanone (MEK)	mg/kg	.25	0.24	97	56-161	M5
2-Chlorotoluene	mg/kg	.05	0.047	94	69-122	M5
2-Hexanone	mg/kg	.25	0.26	103	67-141	M5
4-Chlorotoluene	mg/kg	.05	0.049	98	70-118	M5
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.25	100	72-125	M5
Acetone	mg/kg	.25	0.25	99	24-194	M5
Acrolein	mg/kg	1	1.3	128	23-200	M5
Acrylonitrile	mg/kg	.2	0.16	82	70-122	M5
Benzene	mg/kg	.05	0.050	99	75-119	M5
Bromobenzene	mg/kg	.05	0.047	94	73-119	M5
Bromochloromethane	mg/kg	.05	0.051	103	73-117	M5
Bromodichloromethane	mg/kg	.05	0.047	94	73-120	M5
Bromoform	mg/kg	.05	0.049	99	65-121	M5
Bromomethane	mg/kg	.05	0.040	80	28-161	M5
Carbon disulfide	mg/kg	.05	0.040	80	64-115	M5
Carbon tetrachloride	mg/kg	.05	0.050	101	74-130	M5
Chlorobenzene	mg/kg	.05	0.048	96	75-114	M5
Chloroethane	mg/kg	.05	0.044	87	46-129	M5
Chloroform	mg/kg	.05	0.047	94	71-114	M5
Chloromethane	mg/kg	.05	0.040	81	39-121	M5
cis-1,2-Dichloroethene	mg/kg	.05	0.046	92	79-121	M5
cis-1,3-Dichloropropene	mg/kg	.05	0.050	100	73-132	M5
Dibromochloromethane	mg/kg	.05	0.050	101	73-123	M5
Dibromomethane	mg/kg	.05	0.049	99	79-119	M5
Dichlorodifluoromethane	mg/kg	.05	0.029	59	44-155	M5
Ethyl methacrylate	mg/kg	.2	0.21	103	74-136	M5
Ethylbenzene	mg/kg	.05	0.047	94	73-121	M5
Hexachloro-1,3-butadiene	mg/kg	.05	0.044	88	65-131	M5
Iodomethane	mg/kg	.1	.092J	92	44-168	M5
Isopropylbenzene (Cumene)	mg/kg	.05	0.049	98	72-122	M5
Methyl-tert-butyl ether	mg/kg	.05	0.046	91	74-121	M5
Methylene Chloride	mg/kg	.05	0.044	88	61-140	M5
n-Butylbenzene	mg/kg	.05	0.046	93	64-125	M5
n-Hexane	mg/kg	.05	0.045	91	69-116	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

LABORATORY CONTROL SAMPLE: 1916992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	mg/kg	.05	0.048	96	70-127	M5
p-Isopropyltoluene	mg/kg	.05	0.046	92	71-123	M5
sec-Butylbenzene	mg/kg	.05	0.047	94	72-129	M5
Styrene	mg/kg	.05	0.048	96	72-127	M5
tert-Butylbenzene	mg/kg	.05	0.037	73	57-108	M5
Tetrachloroethene	mg/kg	.05	0.042	84	68-120	M5
Toluene	mg/kg	.05	0.048	95	71-114	M5
trans-1,2-Dichloroethene	mg/kg	.05	0.040	81	76-125	M5
trans-1,3-Dichloropropene	mg/kg	.05	0.051	101	69-133	M5
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.20	99	58-132	M5
Trichloroethene	mg/kg	.05	0.048	96	77-115	M5
Trichlorofluoromethane	mg/kg	.05	0.044	88	61-142	M5
Vinyl acetate	mg/kg	.2	0.22	110	64-139	M5
Vinyl chloride	mg/kg	.05	0.041	82	66-139	M5
Xylene (Total)	mg/kg	.15	0.14	94	71-119	M5
4-Bromofluorobenzene (S)	%.			102	51-142	M5
Dibromofluoromethane (S)	%.			95	69-136	M5
Toluene-d8 (S)	%.			99	64-150	M5

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

QC Batch:	415791	Analysis Method:	EPA 8270 by SIM
QC Batch Method:	EPA 3546	Analysis Description:	8270 MSSV PAH by SIM
Associated Lab Samples:	50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010		

METHOD BLANK: 1914791 Matrix: Solid
Associated Lab Samples: 50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0049	11/17/17 17:53	N2
2-Methylnaphthalene	mg/kg	ND	0.0049	11/17/17 17:53	
Acenaphthene	mg/kg	ND	0.0049	11/17/17 17:53	
Acenaphthylene	mg/kg	ND	0.0049	11/17/17 17:53	
Anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(a)anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(a)pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(b)fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(g,h,i)perylene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(k)fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Chrysene	mg/kg	ND	0.0049	11/17/17 17:53	
Dibenz(a,h)anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Fluorene	mg/kg	ND	0.0049	11/17/17 17:53	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
Naphthalene	mg/kg	ND	0.0049	11/17/17 17:53	
Phenanthrene	mg/kg	ND	0.0049	11/17/17 17:53	
Pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
2-Fluorobiphenyl (S)	%	73	30-94	11/17/17 17:53	
p-Terphenyl-d14 (S)	%	89	27-102	11/17/17 17:53	

LABORATORY CONTROL SAMPLE: 1914792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.23	69	38-105	N2
2-Methylnaphthalene	mg/kg	.33	0.23	69	38-104	
Acenaphthene	mg/kg	.33	0.22	68	39-108	
Acenaphthylene	mg/kg	.33	0.25	76	39-108	
Anthracene	mg/kg	.33	0.22	68	41-119	
Benzo(a)anthracene	mg/kg	.33	0.26	80	42-125	
Benzo(a)pyrene	mg/kg	.33	0.25	77	33-143	
Benzo(b)fluoranthene	mg/kg	.33	0.20	60	31-143	
Benzo(g,h,i)perylene	mg/kg	.33	0.23	70	34-138	
Benzo(k)fluoranthene	mg/kg	.33	0.28	84	32-140	
Chrysene	mg/kg	.33	0.25	75	44-121	
Dibenz(a,h)anthracene	mg/kg	.33	0.23	70	32-144	
Fluoranthene	mg/kg	.33	0.27	81	42-122	
Fluorene	mg/kg	.33	0.24	74	40-114	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

LABORATORY CONTROL SAMPLE: 1914792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.23	70	33-142	
Naphthalene	mg/kg	.33	0.22	67	37-101	
Phenanthrene	mg/kg	.33	0.23	70	40-116	
Pyrene	mg/kg	.33	0.23	70	43-121	
2-Fluorobiphenyl (S)	%			63	30-94	
p-Terphenyl-d14 (S)	%			73	27-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914793 1914794

Parameter	Units	50184499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	ND	.36	.36	0.036	0.048	10	13	14-124	27	20	M1, N2, R1
2-Methylnaphthalene	mg/kg	ND	.36	.36	0.036	0.048	10	13	13-123	27	20	M1, R1
Acenaphthene	mg/kg	ND	.36	.36	0.034	0.047	9	13	20-120	32	20	M1, R1
Acenaphthylene	mg/kg	ND	.36	.36	0.039	0.053	11	15	22-116	30	20	M1, R1
Anthracene	mg/kg	ND	.36	.36	0.036	0.059	5	12	19-128	49	20	M1, R1
Benzo(a)anthracene	mg/kg	0.047	.36	.36	0.063	0.094	4	13	16-134	40	20	M1, R1
Benzo(a)pyrene	mg/kg	0.042	.36	.36	0.057	0.082	4	11	10-148	36	20	M1, R1
Benzo(b)fluoranthene	mg/kg	0.035	.36	.36	0.046	0.082	3	13	10-148	56	20	M1, R1
Benzo(g,h,i)perylene	mg/kg	0.037	.36	.36	0.048	0.069	3	9	10-141	35	20	M1, R1
Benzo(k)fluoranthene	mg/kg	0.041	.36	.36	0.062	0.075	6	10	10-146	20	20	M1
Chrysene	mg/kg	0.056	.36	.36	0.070	0.10	4	12	15-133	36	20	M1, R1
Dibenz(a,h)anthracene	mg/kg	ND	.36	.36	0.033	0.046	7	10	10-142	33	20	M1, R1
Fluoranthene	mg/kg	0.12	.36	.36	0.12	0.18	0	16	13-135	40	20	M1, R1
Fluorene	mg/kg	ND	.36	.36	0.035	0.049	10	13	21-125	33	20	M1, R1
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.36	.36	0.041	0.059	5	10	10-143	35	20	M1, R1
Naphthalene	mg/kg	ND	.36	.36	0.036	0.046	10	13	12-123	26	20	ED, M1, R1
Phenanthrene	mg/kg	0.087	.36	.36	0.095	0.14	2	16	13-133	41	20	M1, R1
Pyrene	mg/kg	0.091	.36	.36	0.091	0.14	0	12	11-137	39	20	M1, R1
2-Fluorobiphenyl (S)	%						8	11	30-94			S4
p-Terphenyl-d14 (S)	%						9	12	27-102			S4

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

QC Batch:	415589	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540G	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	50184497001, 50184497002, 50184497003, 50184497004, 50184497005, 50184497006, 50184497007, 50184497008, 50184497009, 50184497010		

SAMPLE DUPLICATE: 1913519

Parameter	Units	50184471005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	35.9	39.0	8	5	R1

SAMPLE DUPLICATE: 1913520

Parameter	Units	50184497010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.7	10.1	4	5	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site
Pace Project No.: 50184497

QC Batch:	419986	Analysis Method:	EPA 7196A
QC Batch Method:	EPA 3060A	Analysis Description:	7196 Chromium, Hexavalent
Associated Lab Samples:	50184497006		

METHOD BLANK: 1935573 Matrix: Solid
Associated Lab Samples: 50184497006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	2.0	12/14/17 17:22	

LABORATORY CONTROL SAMPLE: 1935574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	1010	966	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1935575 1935576

Parameter	Units	50184326003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	1260	1530	1030	1160	81	76	75-125	12	20	H3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1935577 1935578

Parameter	Units	50184326003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	50	49	20.1	16.3	40	33	75-125	21	20	H3,M3,R1

SAMPLE DUPLICATE: 1935579

Parameter	Units	50184497006 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	

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QUALIFIERS

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 416247

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

ANALYTE QUALIFIERS

ED Due to the extract's physical characteristics, the analysis was performed at dilution.

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184497001	SB07 (0-2)	EPA 3050	415570	EPA 6010	416230
50184497002	SB21 (0-2)	EPA 3050	415570	EPA 6010	416230
50184497003	SB21 (12-14)	EPA 3050	415570	EPA 6010	416230
50184497004	SB22 (0-2)	EPA 3050	415570	EPA 6010	416230
50184497005	SB22 (28-30)	EPA 3050	415570	EPA 6010	416230
50184497006	SB23 (0-2)	EPA 3050	415570	EPA 6010	416230
50184497007	SB23 (16-18)	EPA 3050	415570	EPA 6010	416230
50184497008	SB24 (0-2)	EPA 3050	415570	EPA 6010	416230
50184497009	SB24 (12-14)	EPA 3050	415570	EPA 6010	416230
50184497010	DUP-SL3	EPA 3050	415570	EPA 6010	416230
50184497001	SB07 (0-2)	EPA 7471	416352	EPA 7471	416601
50184497002	SB21 (0-2)	EPA 7471	416352	EPA 7471	416601
50184497003	SB21 (12-14)	EPA 7471	416352	EPA 7471	416601
50184497004	SB22 (0-2)	EPA 7471	416352	EPA 7471	416601
50184497005	SB22 (28-30)	EPA 7471	416352	EPA 7471	416601
50184497006	SB23 (0-2)	EPA 7471	416352	EPA 7471	416601
50184497007	SB23 (16-18)	EPA 7471	416352	EPA 7471	416601
50184497008	SB24 (0-2)	EPA 7471	416352	EPA 7471	416601
50184497009	SB24 (12-14)	EPA 7471	416352	EPA 7471	416601
50184497010	DUP-SL3	EPA 7471	416352	EPA 7471	416601
50184497001	SB07 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497002	SB21 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497003	SB21 (12-14)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497004	SB22 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497005	SB22 (28-30)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497006	SB23 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497007	SB23 (16-18)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497008	SB24 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497009	SB24 (12-14)	EPA 3546	415791	EPA 8270 by SIM	415946
50184497010	DUP-SL3	EPA 3546	415791	EPA 8270 by SIM	415946
50184497001	SB07 (0-2)	EPA 8260	416247		
50184497002	SB21 (0-2)	EPA 8260	416247		
50184497003	SB21 (12-14)	EPA 8260	416247		
50184497004	SB22 (0-2)	EPA 8260	416247		
50184497005	SB22 (28-30)	EPA 8260	416247		
50184497006	SB23 (0-2)	EPA 8260	416247		
50184497007	SB23 (16-18)	EPA 8260	416247		
50184497008	SB24 (0-2)	EPA 8260	416247		
50184497009	SB24 (12-14)	EPA 8260	416247		
50184497010	DUP-SL3	EPA 8260	416247		
50184497011	TB-3	EPA 8260	416247		
50184497001	SB07 (0-2)	SM 2540G	415589		
50184497002	SB21 (0-2)	SM 2540G	415589		
50184497003	SB21 (12-14)	SM 2540G	415589		
50184497004	SB22 (0-2)	SM 2540G	415589		
50184497005	SB22 (28-30)	SM 2540G	415589		
50184497006	SB23 (0-2)	SM 2540G	415589		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184497007	SB23 (16-18)	SM 2540G	415589		
50184497008	SB24 (0-2)	SM 2540G	415589		
50184497009	SB24 (12-14)	SM 2540G	415589		
50184497010	DUP-SL3	SM 2540G	415589		
50184497006	SB23 (0-2)	EPA 3060A	419986	EPA 7196A	420091

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

[illegible]



Sample Condition Upon Receipt

Project # 50184497Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ noPacking 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 ☐ Yes ☐ No ☒ N/A Samples iced, cooling process has begunCooler Temperature 13/1.3
(Initial/Corrected) Temp should be above freezing to 6°CIce Visible in Sample Containers: ☐ Yes ☒ No ☐ N/AIf Over 6°C, Was PM Notified? ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: <u>11/15/17 1825 RND</u>		Comments	
Are samples from West Virginia?	☐ Yes ☒ No	1.	
Document any containers out of temp.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico)	☐ Yes ☒ No	2.	
Chain of Custody Present:	☒ Yes ☐ No	3.	
Chain of Custody Filled Out:	☒ Yes ☐ No	4.	
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	5. <u>TC Bulk</u>	Date/Time 5035A T/C placed in Freezer: <u>11/15/17 1840</u> Short Holds Taken to Lab: _____
Rush Turn Around Time Requested:	☐ Yes ☒ No	6.	
Containers Intact:	☒ Yes ☐ No	7.	
Sample Labels match COC: -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.	☐ Yes ☒ No	8. <u>Dup - 563 - soil jar does not have date</u>	
Were dissolved metals samples field filtered?	☐ Yes ☐ No ☒ N/A	9.	
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.	☐ Yes ☐ No ☒ N/A	10. (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc	
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent	
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent	
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	13.	
Headspace Wisconsin Sulfide	☐ Yes ☐ No ☒ N/A	14.	
Trip Blank Present: ☒ Yes ☐ No	Custody Seals ☒ Yes ☐ No	15. <u>TC trip blank</u>	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Sample Container Count

CLIENT: SUE

COC PAGE 1 of 1

Project # 50184497

COC ID#

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGUFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix SI/MW/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2 pH >9 pH >12
1						1										3	SL	
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		
WG9AU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WG9FU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JG9FU	4oz unpreserved amber wide	BG3H	250mL HCL Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

November 21, 2017

Mr. Chris Shaw
SME
5835 W 74th Street
Indianapolis, IN 46278

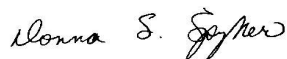
RE: Project: Convention Center - Hotel Site
Pace Project No.: 50184499

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 003971

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-17-11

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50184499001	GP1 (0-2)	Solid	11/15/17 11:15	11/15/17 17:30
50184499002	GP1 (12-14)	Solid	11/15/17 11:35	11/15/17 17:30
50184499003	GP2 (0-2)	Solid	11/15/17 12:15	11/15/17 17:30
50184499004	GP2 (4-6)	Solid	11/15/17 12:25	11/15/17 17:30
50184499005	GP3 (0-2)	Solid	11/15/17 12:55	11/15/17 17:30
50184499006	GP3 (12-14)	Solid	11/15/17 13:10	11/15/17 17:30
50184499007	GP4 (0-2)	Solid	11/15/17 13:30	11/15/17 17:30
50184499008	GP4 (4-6)	Solid	11/15/17 13:40	11/15/17 17:30
50184499009	DUP-SL	Solid	11/15/17 08:00	11/15/17 17:30
50184499010	TB-SL	Solid	11/15/17 08:00	11/15/17 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184499001	GP1 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184499002	GP1 (12-14)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184499003	GP2 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184499004	GP2 (4-6)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184499005	GP3 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184499006	GP3 (12-14)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184499007	GP4 (0-2)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
50184499008	GP4 (4-6)	EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184499009	DUP-SL	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	MJC	7	PASI-I
		EPA 7471	JGJ	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
50184499010	TB-SL	EPA 8260	ALA	72	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 8260	ALA	72	PASI-I

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184499001	GP1 (0-2)					
EPA 6010	Arsenic	9.4	mg/kg	1.0	11/20/17 12:14	
EPA 6010	Barium	121	mg/kg	1.0	11/20/17 12:14	
EPA 6010	Cadmium	0.98	mg/kg	0.51	11/20/17 12:14	
EPA 6010	Chromium	11.6	mg/kg	1.0	11/20/17 12:14	
EPA 6010	Lead	132	mg/kg	1.0	11/20/17 12:14	
EPA 6010	Selenium	1.8	mg/kg	1.0	11/20/17 12:14	
EPA 7471	Mercury	0.47	mg/kg	0.23	11/21/17 17:35	
EPA 8270 by SIM	Benzo(a)anthracene	0.047	mg/kg	0.027	11/17/17 22:50	M1, R1
EPA 8270 by SIM	Benzo(a)pyrene	0.042	mg/kg	0.027	11/17/17 22:50	M1, R1
EPA 8270 by SIM	Benzo(b)fluoranthene	0.035	mg/kg	0.027	11/17/17 22:50	M1, R1
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.037	mg/kg	0.027	11/17/17 22:50	M1, R1
EPA 8270 by SIM	Benzo(k)fluoranthene	0.041	mg/kg	0.027	11/17/17 22:50	M1
EPA 8270 by SIM	Chrysene	0.056	mg/kg	0.027	11/17/17 22:50	M1, R1
EPA 8270 by SIM	Fluoranthene	0.12	mg/kg	0.027	11/17/17 22:50	M1, R1
EPA 8270 by SIM	Phenanthrene	0.087	mg/kg	0.027	11/17/17 22:50	M1, R1
EPA 8270 by SIM	Pyrene	0.091	mg/kg	0.027	11/17/17 22:50	M1, R1
SM 2540G	Percent Moisture	9.0	%	0.10	11/16/17 16:54	
50184499002	GP1 (12-14)					
EPA 6010	Arsenic	6.0	mg/kg	0.98	11/20/17 12:25	
EPA 6010	Barium	26.1	mg/kg	0.98	11/20/17 12:25	
EPA 6010	Chromium	10.1	mg/kg	0.98	11/20/17 12:25	
EPA 6010	Lead	6.0	mg/kg	0.98	11/20/17 12:25	
EPA 6010	Selenium	2.7	mg/kg	0.98	11/20/17 12:25	
SM 2540G	Percent Moisture	8.3	%	0.10	11/16/17 16:54	
50184499003	GP2 (0-2)					
EPA 6010	Arsenic	6.5	mg/kg	0.97	11/20/17 12:27	
EPA 6010	Barium	85.8	mg/kg	0.97	11/20/17 12:27	
EPA 6010	Chromium	9.8	mg/kg	0.97	11/20/17 12:27	
EPA 6010	Lead	42.4	mg/kg	0.97	11/20/17 12:27	
EPA 6010	Selenium	1.2	mg/kg	0.97	11/20/17 12:27	
EPA 6010	Silver	0.67	mg/kg	0.48	11/20/17 12:27	
EPA 7471	Mercury	0.54	mg/kg	0.22	11/21/17 17:44	
EPA 8270 by SIM	Anthracene	0.051	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Benzo(a)anthracene	0.17	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Benzo(a)pyrene	0.18	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.14	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.13	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.18	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Chrysene	0.19	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.047	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Fluoranthene	0.38	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.11	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Phenanthrene	0.20	mg/kg	0.027	11/17/17 23:56	
EPA 8270 by SIM	Pyrene	0.29	mg/kg	0.027	11/17/17 23:56	
EPA 8260	Ethylbenzene	0.015	mg/kg	0.0047	11/21/17 05:49	
EPA 8260	Xylene (Total)	0.084	mg/kg	0.0093	11/21/17 05:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184499003	GP2 (0-2)					
SM 2540G	Percent Moisture	7.8	%	0.10	11/16/17 16:54	
50184499004	GP2 (4-6)					
EPA 6010	Arsenic	9.8	mg/kg	1.1	11/20/17 12:44	
EPA 6010	Barium	50.9	mg/kg	1.1	11/20/17 12:44	
EPA 6010	Chromium	17.4	mg/kg	1.1	11/20/17 12:44	
EPA 6010	Lead	7.6	mg/kg	1.1	11/20/17 12:44	
EPA 6010	Selenium	1.9	mg/kg	1.1	11/20/17 12:44	
SM 2540G	Percent Moisture	16.6	%	0.10	11/16/17 16:54	
50184499005	GP3 (0-2)					
EPA 6010	Arsenic	1.8	mg/kg	1.0	11/20/17 12:46	
EPA 6010	Barium	6.6	mg/kg	1.0	11/20/17 12:46	
EPA 6010	Chromium	3.3	mg/kg	1.0	11/20/17 12:46	
EPA 6010	Lead	4.9	mg/kg	1.0	11/20/17 12:46	
EPA 8270 by SIM	Fluoranthene	0.0055	mg/kg	0.0054	11/18/17 01:02	
SM 2540G	Percent Moisture	8.5	%	0.10	11/16/17 16:54	
50184499006	GP3 (12-14)					
EPA 6010	Arsenic	7.5	mg/kg	0.98	11/20/17 12:49	
EPA 6010	Barium	41.4	mg/kg	0.98	11/20/17 12:49	
EPA 6010	Chromium	10.3	mg/kg	0.98	11/20/17 12:49	
EPA 6010	Lead	5.2	mg/kg	0.98	11/20/17 12:49	
EPA 6010	Selenium	1.8	mg/kg	0.98	11/20/17 12:49	
SM 2540G	Percent Moisture	8.9	%	0.10	11/16/17 16:55	
50184499007	GP4 (0-2)					
EPA 6010	Arsenic	8.4	mg/kg	1.2	11/20/17 12:51	
EPA 6010	Barium	102	mg/kg	1.2	11/20/17 12:51	
EPA 6010	Chromium	16.7	mg/kg	1.2	11/20/17 12:51	
EPA 6010	Lead	14.9	mg/kg	1.2	11/20/17 12:51	
EPA 6010	Selenium	1.5	mg/kg	1.2	11/20/17 12:51	
SM 2540G	Percent Moisture	21.5	%	0.10	11/16/17 16:55	
50184499008	GP4 (4-6)					
EPA 6010	Arsenic	6.8	mg/kg	1.1	11/20/17 12:53	
EPA 6010	Barium	69.1	mg/kg	1.1	11/20/17 12:53	
EPA 6010	Chromium	16.8	mg/kg	1.1	11/20/17 12:53	
EPA 6010	Lead	6.9	mg/kg	1.1	11/20/17 12:53	
EPA 6010	Selenium	1.7	mg/kg	1.1	11/20/17 12:53	
SM 2540G	Percent Moisture	16.0	%	0.10	11/16/17 16:55	
50184499009	DUP-SL					
EPA 6010	Arsenic	8.3	mg/kg	0.97	11/20/17 12:56	
EPA 6010	Barium	27.8	mg/kg	0.97	11/20/17 12:56	
EPA 6010	Chromium	10.2	mg/kg	0.97	11/20/17 12:56	
EPA 6010	Lead	4.7	mg/kg	0.97	11/20/17 12:56	
EPA 6010	Selenium	1.4	mg/kg	0.97	11/20/17 12:56	
SM 2540G	Percent Moisture	8.9	%	0.10	11/16/17 16:55	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP1 (0-2) Lab ID: 50184499001 Collected: 11/15/17 11:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.4	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:14	7440-38-2	
Barium	121	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:14	7440-39-3	
Cadmium	0.98	mg/kg	0.51	1	11/16/17 13:01	11/20/17 12:14	7440-43-9	
Chromium	11.6	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:14	7440-47-3	
Lead	132	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:14	7439-92-1	
Selenium	1.8	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:14	7782-49-2	
Silver	ND	mg/kg	0.51	1	11/16/17 13:01	11/20/17 12:14	7440-22-4	

7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	0.47	mg/kg	0.23	1	11/21/17 10:13	11/21/17 17:35	7439-97-6	

8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	83-32-9	M1,R1
Acenaphthylene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	208-96-8	M1,R1
Anthracene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	120-12-7	M1,R1
Benzo(a)anthracene	0.047	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	56-55-3	M1,R1
Benzo(a)pyrene	0.042	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	50-32-8	M1,R1
Benzo(b)fluoranthene	0.035	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	205-99-2	M1,R1
Benzo(g,h,i)perylene	0.037	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	191-24-2	M1,R1
Benzo(k)fluoranthene	0.041	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	207-08-9	M1
Chrysene	0.056	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	218-01-9	M1,R1
Dibenz(a,h)anthracene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	53-70-3	M1,R1
Fluoranthene	0.12	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	206-44-0	M1,R1
Fluorene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	86-73-7	M1,R1
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	193-39-5	M1,R1
1-Methylnaphthalene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	90-12-0	M1,N2, R1
2-Methylnaphthalene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	91-57-6	M1,R1
Naphthalene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	91-20-3	ED,M1, R1
Phenanthrene	0.087	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	85-01-8	M1,R1
Pyrene	0.091	mg/kg	0.027	5	11/17/17 10:10	11/17/17 22:50	129-00-0	M1,R1
Surrogates								
2-Fluorobiphenyl (S)	10	%	30-94	5	11/17/17 10:10	11/17/17 22:50	321-60-8	S4
p-Terphenyl-d14 (S)	11	%	27-102	5	11/17/17 10:10	11/17/17 22:50	1718-51-0	S4

8260 MSV 5035A VOA

Analytical Method: EPA 8260

Acetone	ND	mg/kg	0.11	1		11/21/17 03:18	67-64-1	R1
Acrolein	ND	mg/kg	0.11	1		11/21/17 03:18	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		11/21/17 03:18	107-13-1	
Benzene	ND	mg/kg	0.0053	1		11/21/17 03:18	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		11/21/17 03:18	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		11/21/17 03:18	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		11/21/17 03:18	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		11/21/17 03:18	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP1 (0-2) Lab ID: 50184499001 Collected: 11/15/17 11:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
2-Butanone (MEK)	ND	mg/kg	0.026	1		11/21/17 03:18	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		11/21/17 03:18	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		11/21/17 03:18	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		11/21/17 03:18	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		11/21/17 03:18	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		11/21/17 03:18	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		11/21/17 03:18	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		11/21/17 03:18	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		11/21/17 03:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0053	1		11/21/17 03:18	106-93-4	
Dibromomethane	ND	mg/kg	0.0053	1		11/21/17 03:18	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		11/21/17 03:18	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		11/21/17 03:18	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		11/21/17 03:18	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		11/21/17 03:18	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		11/21/17 03:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		11/21/17 03:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		11/21/17 03:18	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		11/21/17 03:18	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		11/21/17 03:18	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		11/21/17 03:18	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		11/21/17 03:18	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		11/21/17 03:18	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		11/21/17 03:18	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		11/21/17 03:18	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0053	1		11/21/17 03:18	87-68-3	
n-Hexane	ND	mg/kg	0.0053	1		11/21/17 03:18	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1		11/21/17 03:18	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		11/21/17 03:18	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		11/21/17 03:18	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		11/21/17 03:18	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		11/21/17 03:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		11/21/17 03:18	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		11/21/17 03:18	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	103-65-1	
Styrene	ND	mg/kg	0.0053	1		11/21/17 03:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		11/21/17 03:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		11/21/17 03:18	79-34-5	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP1 (0-2) Lab ID: 50184499001 Collected: 11/15/17 11:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Tetrachloroethene	ND	mg/kg	0.0053	1		11/21/17 03:18	127-18-4	
Toluene	ND	mg/kg	0.0053	1		11/21/17 03:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		11/21/17 03:18	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		11/21/17 03:18	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		11/21/17 03:18	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		11/21/17 03:18	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0053	1		11/21/17 03:18	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		11/21/17 03:18	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		11/21/17 03:18	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		11/21/17 03:18	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		11/21/17 03:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	115	%	69-136	1		11/21/17 03:18	1868-53-7	
Toluene-d8 (S)	118	%	64-150	1		11/21/17 03:18	2037-26-5	
4-Bromofluorobenzene (S)	73	%	51-142	1		11/21/17 03:18	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	9.0	%	0.10	1		11/16/17 16:54		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP1 (12-14) Lab ID: 50184499002 Collected: 11/15/17 11:35 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.0	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:25	7440-38-2	
Barium	26.1	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:25	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	11/16/17 13:01	11/20/17 12:25	7440-43-9	
Chromium	10.1	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:25	7440-47-3	
Lead	6.0	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:25	7439-92-1	
Selenium	2.7	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:25	7782-49-2	
Silver	ND	mg/kg	0.49	1	11/16/17 13:01	11/20/17 12:25	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.21	1	11/21/17 10:13	11/21/17 17:42	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:10	11/17/17 23:39	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	61	%.	30-94	1	11/17/17 10:10	11/17/17 23:39	321-60-8	
p-Terphenyl-d14 (S)	68	%.	27-102	1	11/17/17 10:10	11/17/17 23:39	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.091	1		11/21/17 05:11	67-64-1	
Acrolein	ND	mg/kg	0.091	1		11/21/17 05:11	107-02-8	
Acrylonitrile	ND	mg/kg	0.091	1		11/21/17 05:11	107-13-1	
Benzene	ND	mg/kg	0.0045	1		11/21/17 05:11	71-43-2	
Bromobenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	108-86-1	
Bromochloromethane	ND	mg/kg	0.0045	1		11/21/17 05:11	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0045	1		11/21/17 05:11	75-27-4	
Bromoform	ND	mg/kg	0.0045	1		11/21/17 05:11	75-25-2	
Bromomethane	ND	mg/kg	0.0045	1		11/21/17 05:11	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		11/21/17 05:11	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP1 (12-14) Lab ID: 50184499002 Collected: 11/15/17 11:35 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	98-06-6	
Carbon disulfide	ND	mg/kg	0.0091	1		11/21/17 05:11	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0045	1		11/21/17 05:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	108-90-7	
Chloroethane	ND	mg/kg	0.0045	1		11/21/17 05:11	75-00-3	
Chloroform	ND	mg/kg	0.0045	1		11/21/17 05:11	67-66-3	
Chloromethane	ND	mg/kg	0.0045	1		11/21/17 05:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0045	1		11/21/17 05:11	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0045	1		11/21/17 05:11	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0045	1		11/21/17 05:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0045	1		11/21/17 05:11	106-93-4	
Dibromomethane	ND	mg/kg	0.0045	1		11/21/17 05:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.091	1		11/21/17 05:11	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0045	1		11/21/17 05:11	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0045	1		11/21/17 05:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0045	1		11/21/17 05:11	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0045	1		11/21/17 05:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0045	1		11/21/17 05:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0045	1		11/21/17 05:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0045	1		11/21/17 05:11	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0045	1		11/21/17 05:11	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0045	1		11/21/17 05:11	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0045	1		11/21/17 05:11	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0045	1		11/21/17 05:11	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0045	1		11/21/17 05:11	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.091	1		11/21/17 05:11	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0045	1		11/21/17 05:11	87-68-3	
n-Hexane	ND	mg/kg	0.0045	1		11/21/17 05:11	110-54-3	
2-Hexanone	ND	mg/kg	0.091	1		11/21/17 05:11	591-78-6	
Iodomethane	ND	mg/kg	0.091	1		11/21/17 05:11	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0045	1		11/21/17 05:11	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0045	1		11/21/17 05:11	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		11/21/17 05:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		11/21/17 05:11	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0045	1		11/21/17 05:11	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	103-65-1	
Styrene	ND	mg/kg	0.0045	1		11/21/17 05:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0045	1		11/21/17 05:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0045	1		11/21/17 05:11	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0045	1		11/21/17 05:11	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP1 (12-14) Lab ID: 50184499002 Collected: 11/15/17 11:35 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0045	1		11/21/17 05:11	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0045	1		11/21/17 05:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0045	1		11/21/17 05:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0045	1		11/21/17 05:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0045	1		11/21/17 05:11	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0045	1		11/21/17 05:11	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0045	1		11/21/17 05:11	108-67-8	
Vinyl acetate	ND	mg/kg	0.091	1		11/21/17 05:11	108-05-4	
Vinyl chloride	ND	mg/kg	0.0045	1		11/21/17 05:11	75-01-4	
Xylene (Total)	ND	mg/kg	0.0091	1		11/21/17 05:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	69-136	1		11/21/17 05:11	1868-53-7	
Toluene-d8 (S)	109	%	64-150	1		11/21/17 05:11	2037-26-5	
4-Bromofluorobenzene (S)	83	%	51-142	1		11/21/17 05:11	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	8.3	%	0.10	1		11/16/17 16:54		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP2 (0-2) Lab ID: 50184499003 Collected: 11/15/17 12:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.5	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:27	7440-38-2	
Barium	85.8	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:27	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	11/16/17 13:01	11/20/17 12:27	7440-43-9	
Chromium	9.8	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:27	7440-47-3	
Lead	42.4	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:27	7439-92-1	
Selenium	1.2	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:27	7782-49-2	
Silver	0.67	mg/kg	0.48	1	11/16/17 13:01	11/20/17 12:27	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.54	mg/kg	0.22	1	11/21/17 10:13	11/21/17 17:44	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	83-32-9	
Acenaphthylene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	208-96-8	
Anthracene	0.051	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	120-12-7	
Benzo(a)anthracene	0.17	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	56-55-3	
Benzo(a)pyrene	0.18	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	50-32-8	
Benzo(b)fluoranthene	0.14	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	205-99-2	
Benzo(g,h,i)perylene	0.13	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	191-24-2	
Benzo(k)fluoranthene	0.18	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	207-08-9	
Chrysene	0.19	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	218-01-9	
Dibenz(a,h)anthracene	0.047	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	53-70-3	
Fluoranthene	0.38	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	206-44-0	
Fluorene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	86-73-7	
Indeno(1,2,3-cd)pyrene	0.11	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	91-57-6	
Naphthalene	ND	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	91-20-3	ED
Phenanthrene	0.20	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	85-01-8	
Pyrene	0.29	mg/kg	0.027	5	11/17/17 10:10	11/17/17 23:56	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	49	%	30-94	5	11/17/17 10:10	11/17/17 23:56	321-60-8	
p-Terphenyl-d14 (S)	48	%	27-102	5	11/17/17 10:10	11/17/17 23:56	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.093	1		11/21/17 05:49	67-64-1	
Acrolein	ND	mg/kg	0.093	1		11/21/17 05:49	107-02-8	
Acrylonitrile	ND	mg/kg	0.093	1		11/21/17 05:49	107-13-1	
Benzene	ND	mg/kg	0.0047	1		11/21/17 05:49	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		11/21/17 05:49	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		11/21/17 05:49	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		11/21/17 05:49	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		11/21/17 05:49	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		11/21/17 05:49	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP2 (0-2) Lab ID: 50184499003 Collected: 11/15/17 12:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	98-06-6	
Carbon disulfide	ND	mg/kg	0.0093	1		11/21/17 05:49	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		11/21/17 05:49	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		11/21/17 05:49	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		11/21/17 05:49	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		11/21/17 05:49	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		11/21/17 05:49	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		11/21/17 05:49	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		11/21/17 05:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		11/21/17 05:49	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		11/21/17 05:49	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.093	1		11/21/17 05:49	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		11/21/17 05:49	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		11/21/17 05:49	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		11/21/17 05:49	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		11/21/17 05:49	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		11/21/17 05:49	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		11/21/17 05:49	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		11/21/17 05:49	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		11/21/17 05:49	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		11/21/17 05:49	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		11/21/17 05:49	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		11/21/17 05:49	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		11/21/17 05:49	10061-02-6	
Ethylbenzene	0.015	mg/kg	0.0047	1		11/21/17 05:49	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.093	1		11/21/17 05:49	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		11/21/17 05:49	87-68-3	
n-Hexane	ND	mg/kg	0.0047	1		11/21/17 05:49	110-54-3	
2-Hexanone	ND	mg/kg	0.093	1		11/21/17 05:49	591-78-6	
Iodomethane	ND	mg/kg	0.093	1		11/21/17 05:49	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		11/21/17 05:49	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		11/21/17 05:49	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		11/21/17 05:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		11/21/17 05:49	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		11/21/17 05:49	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	103-65-1	
Styrene	ND	mg/kg	0.0047	1		11/21/17 05:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		11/21/17 05:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		11/21/17 05:49	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		11/21/17 05:49	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP2 (0-2) Lab ID: 50184499003 Collected: 11/15/17 12:15 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0047	1		11/21/17 05:49	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		11/21/17 05:49	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		11/21/17 05:49	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		11/21/17 05:49	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		11/21/17 05:49	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		11/21/17 05:49	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		11/21/17 05:49	108-67-8	
Vinyl acetate	ND	mg/kg	0.093	1		11/21/17 05:49	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		11/21/17 05:49	75-01-4	
Xylene (Total)	0.084	mg/kg	0.0093	1		11/21/17 05:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	69-136	1		11/21/17 05:49	1868-53-7	
Toluene-d8 (S)	105	%	64-150	1		11/21/17 05:49	2037-26-5	
4-Bromofluorobenzene (S)	87	%	51-142	1		11/21/17 05:49	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	7.8	%	0.10	1		11/16/17 16:54		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP2 (4-6) Lab ID: 50184499004 Collected: 11/15/17 12:25 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.8	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:44	7440-38-2	
Barium	50.9	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:44	7440-39-3	
Cadmium	ND	mg/kg	0.54	1	11/16/17 13:01	11/20/17 12:44	7440-43-9	
Chromium	17.4	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:44	7440-47-3	
Lead	7.6	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:44	7439-92-1	
Selenium	1.9	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:44	7782-49-2	
Silver	ND	mg/kg	0.54	1	11/16/17 13:01	11/20/17 12:44	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.24	1	11/21/17 10:13	11/21/17 17:46	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	83-32-9	
Acenaphthylene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	208-96-8	
Anthracene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	207-08-9	
Chrysene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	53-70-3	
Fluoranthene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	206-44-0	
Fluorene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	91-57-6	
Naphthalene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	91-20-3	
Phenanthrene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	85-01-8	
Pyrene	ND	mg/kg	0.0059	1	11/17/17 10:10	11/18/17 00:12	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62	%.	30-94	1	11/17/17 10:10	11/18/17 00:12	321-60-8	
p-Terphenyl-d14 (S)	66	%.	27-102	1	11/17/17 10:10	11/18/17 00:12	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.087	1		11/21/17 06:27	67-64-1	
Acrolein	ND	mg/kg	0.087	1		11/21/17 06:27	107-02-8	
Acrylonitrile	ND	mg/kg	0.087	1		11/21/17 06:27	107-13-1	
Benzene	ND	mg/kg	0.0044	1		11/21/17 06:27	71-43-2	
Bromobenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	108-86-1	
Bromochloromethane	ND	mg/kg	0.0044	1		11/21/17 06:27	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0044	1		11/21/17 06:27	75-27-4	
Bromoform	ND	mg/kg	0.0044	1		11/21/17 06:27	75-25-2	
Bromomethane	ND	mg/kg	0.0044	1		11/21/17 06:27	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.022	1		11/21/17 06:27	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP2 (4-6) Lab ID: 50184499004 Collected: 11/15/17 12:25 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	98-06-6	
Carbon disulfide	ND	mg/kg	0.0087	1		11/21/17 06:27	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0044	1		11/21/17 06:27	56-23-5	
Chlorobenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	108-90-7	
Chloroethane	ND	mg/kg	0.0044	1		11/21/17 06:27	75-00-3	
Chloroform	ND	mg/kg	0.0044	1		11/21/17 06:27	67-66-3	
Chloromethane	ND	mg/kg	0.0044	1		11/21/17 06:27	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0044	1		11/21/17 06:27	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0044	1		11/21/17 06:27	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0044	1		11/21/17 06:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0044	1		11/21/17 06:27	106-93-4	
Dibromomethane	ND	mg/kg	0.0044	1		11/21/17 06:27	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.087	1		11/21/17 06:27	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0044	1		11/21/17 06:27	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0044	1		11/21/17 06:27	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0044	1		11/21/17 06:27	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0044	1		11/21/17 06:27	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/21/17 06:27	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0044	1		11/21/17 06:27	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0044	1		11/21/17 06:27	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0044	1		11/21/17 06:27	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0044	1		11/21/17 06:27	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0044	1		11/21/17 06:27	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/21/17 06:27	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0044	1		11/21/17 06:27	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.087	1		11/21/17 06:27	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0044	1		11/21/17 06:27	87-68-3	
n-Hexane	ND	mg/kg	0.0044	1		11/21/17 06:27	110-54-3	
2-Hexanone	ND	mg/kg	0.087	1		11/21/17 06:27	591-78-6	
Iodomethane	ND	mg/kg	0.087	1		11/21/17 06:27	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0044	1		11/21/17 06:27	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0044	1		11/21/17 06:27	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	1		11/21/17 06:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		11/21/17 06:27	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0044	1		11/21/17 06:27	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	103-65-1	
Styrene	ND	mg/kg	0.0044	1		11/21/17 06:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/21/17 06:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0044	1		11/21/17 06:27	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0044	1		11/21/17 06:27	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP2 (4-6) Lab ID: 50184499004 Collected: 11/15/17 12:25 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0044	1		11/21/17 06:27	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0044	1		11/21/17 06:27	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0044	1		11/21/17 06:27	79-00-5	
Trichloroethene	ND	mg/kg	0.0044	1		11/21/17 06:27	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0044	1		11/21/17 06:27	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0044	1		11/21/17 06:27	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0044	1		11/21/17 06:27	108-67-8	
Vinyl acetate	ND	mg/kg	0.087	1		11/21/17 06:27	108-05-4	
Vinyl chloride	ND	mg/kg	0.0044	1		11/21/17 06:27	75-01-4	
Xylene (Total)	ND	mg/kg	0.0087	1		11/21/17 06:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%	69-136	1		11/21/17 06:27	1868-53-7	
Toluene-d8 (S)	95	%	64-150	1		11/21/17 06:27	2037-26-5	
4-Bromofluorobenzene (S)	94	%	51-142	1		11/21/17 06:27	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	16.6	%	0.10	1		11/16/17 16:54		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP3 (0-2) Lab ID: 50184499005 Collected: 11/15/17 12:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	1.8	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:46	7440-38-2	
Barium	6.6	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:46	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	11/16/17 13:01	11/20/17 12:46	7440-43-9	
Chromium	3.3	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:46	7440-47-3	
Lead	4.9	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:46	7439-92-1	
Selenium	ND	mg/kg	1.0	1	11/16/17 13:01	11/20/17 12:46	7782-49-2	
Silver	ND	mg/kg	0.50	1	11/16/17 13:01	11/20/17 12:46	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.21	1	11/21/17 10:13	11/21/17 17:48	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	83-32-9	
Acenaphthylene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	208-96-8	
Anthracene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	207-08-9	
Chrysene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	53-70-3	
Fluoranthene	0.0055	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	206-44-0	
Fluorene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	91-57-6	
Naphthalene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	91-20-3	
Phenanthrene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	85-01-8	
Pyrene	ND	mg/kg	0.0054	1	11/17/17 10:55	11/18/17 01:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	65	%.	30-94	1	11/17/17 10:55	11/18/17 01:02	321-60-8	
p-Terphenyl-d14 (S)	73	%.	27-102	1	11/17/17 10:55	11/18/17 01:02	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.098	1		11/21/17 07:04	67-64-1	
Acrolein	ND	mg/kg	0.098	1		11/21/17 07:04	107-02-8	
Acrylonitrile	ND	mg/kg	0.098	1		11/21/17 07:04	107-13-1	
Benzene	ND	mg/kg	0.0049	1		11/21/17 07:04	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1		11/21/17 07:04	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1		11/21/17 07:04	75-27-4	
Bromoform	ND	mg/kg	0.0049	1		11/21/17 07:04	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1		11/21/17 07:04	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		11/21/17 07:04	78-93-3	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP3 (0-2) Lab ID: 50184499005 Collected: 11/15/17 12:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	98-06-6	
Carbon disulfide	ND	mg/kg	0.0098	1		11/21/17 07:04	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1		11/21/17 07:04	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1		11/21/17 07:04	75-00-3	
Chloroform	ND	mg/kg	0.0049	1		11/21/17 07:04	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1		11/21/17 07:04	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1		11/21/17 07:04	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	1		11/21/17 07:04	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0049	1		11/21/17 07:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		11/21/17 07:04	106-93-4	
Dibromomethane	ND	mg/kg	0.0049	1		11/21/17 07:04	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.098	1		11/21/17 07:04	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		11/21/17 07:04	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1		11/21/17 07:04	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1		11/21/17 07:04	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	1		11/21/17 07:04	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/21/17 07:04	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/21/17 07:04	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1		11/21/17 07:04	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1		11/21/17 07:04	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1		11/21/17 07:04	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1		11/21/17 07:04	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/21/17 07:04	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/21/17 07:04	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.098	1		11/21/17 07:04	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		11/21/17 07:04	87-68-3	
n-Hexane	ND	mg/kg	0.0049	1		11/21/17 07:04	110-54-3	
2-Hexanone	ND	mg/kg	0.098	1		11/21/17 07:04	591-78-6	
Iodomethane	ND	mg/kg	0.098	1		11/21/17 07:04	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		11/21/17 07:04	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1		11/21/17 07:04	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/21/17 07:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		11/21/17 07:04	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		11/21/17 07:04	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	103-65-1	
Styrene	ND	mg/kg	0.0049	1		11/21/17 07:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/21/17 07:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/21/17 07:04	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	1		11/21/17 07:04	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP3 (0-2) Lab ID: 50184499005 Collected: 11/15/17 12:55 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0049	1		11/21/17 07:04	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		11/21/17 07:04	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		11/21/17 07:04	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1		11/21/17 07:04	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1		11/21/17 07:04	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		11/21/17 07:04	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		11/21/17 07:04	108-67-8	
Vinyl acetate	ND	mg/kg	0.098	1		11/21/17 07:04	108-05-4	
Vinyl chloride	ND	mg/kg	0.0049	1		11/21/17 07:04	75-01-4	
Xylene (Total)	ND	mg/kg	0.0098	1		11/21/17 07:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	69-136	1		11/21/17 07:04	1868-53-7	
Toluene-d8 (S)	97	%	64-150	1		11/21/17 07:04	2037-26-5	
4-Bromofluorobenzene (S)	97	%	51-142	1		11/21/17 07:04	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	8.5	%	0.10	1		11/16/17 16:54		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP3 (12-14) Lab ID: 50184499006 Collected: 11/15/17 13:10 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.5	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:49	7440-38-2	
Barium	41.4	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:49	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	11/16/17 13:01	11/20/17 12:49	7440-43-9	
Chromium	10.3	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:49	7440-47-3	
Lead	5.2	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:49	7439-92-1	
Selenium	1.8	mg/kg	0.98	1	11/16/17 13:01	11/20/17 12:49	7782-49-2	
Silver	ND	mg/kg	0.49	1	11/16/17 13:01	11/20/17 12:49	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/21/17 10:13	11/21/17 17:50	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 01:18	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	30-94	1	11/17/17 10:55	11/18/17 01:18	321-60-8	
p-Terphenyl-d14 (S)	58	%.	27-102	1	11/17/17 10:55	11/18/17 01:18	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.084	1		11/21/17 07:42	67-64-1	
Acrolein	ND	mg/kg	0.084	1		11/21/17 07:42	107-02-8	
Acrylonitrile	ND	mg/kg	0.084	1		11/21/17 07:42	107-13-1	
Benzene	ND	mg/kg	0.0042	1		11/21/17 07:42	71-43-2	
Bromobenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	108-86-1	
Bromochloromethane	ND	mg/kg	0.0042	1		11/21/17 07:42	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0042	1		11/21/17 07:42	75-27-4	
Bromoform	ND	mg/kg	0.0042	1		11/21/17 07:42	75-25-2	
Bromomethane	ND	mg/kg	0.0042	1		11/21/17 07:42	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.021	1		11/21/17 07:42	78-93-3	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP3 (12-14) Lab ID: 50184499006 Collected: 11/15/17 13:10 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	98-06-6	
Carbon disulfide	ND	mg/kg	0.0084	1		11/21/17 07:42	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0042	1		11/21/17 07:42	56-23-5	
Chlorobenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	108-90-7	
Chloroethane	ND	mg/kg	0.0042	1		11/21/17 07:42	75-00-3	
Chloroform	ND	mg/kg	0.0042	1		11/21/17 07:42	67-66-3	
Chloromethane	ND	mg/kg	0.0042	1		11/21/17 07:42	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0042	1		11/21/17 07:42	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0042	1		11/21/17 07:42	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0042	1		11/21/17 07:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	1		11/21/17 07:42	106-93-4	
Dibromomethane	ND	mg/kg	0.0042	1		11/21/17 07:42	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.084	1		11/21/17 07:42	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0042	1		11/21/17 07:42	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0042	1		11/21/17 07:42	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0042	1		11/21/17 07:42	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0042	1		11/21/17 07:42	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/21/17 07:42	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	1		11/21/17 07:42	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0042	1		11/21/17 07:42	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0042	1		11/21/17 07:42	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0042	1		11/21/17 07:42	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0042	1		11/21/17 07:42	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/21/17 07:42	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	1		11/21/17 07:42	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.084	1		11/21/17 07:42	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	1		11/21/17 07:42	87-68-3	
n-Hexane	ND	mg/kg	0.0042	1		11/21/17 07:42	110-54-3	
2-Hexanone	ND	mg/kg	0.084	1		11/21/17 07:42	591-78-6	
Iodomethane	ND	mg/kg	0.084	1		11/21/17 07:42	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0042	1		11/21/17 07:42	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0042	1		11/21/17 07:42	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	1		11/21/17 07:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.021	1		11/21/17 07:42	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0042	1		11/21/17 07:42	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	103-65-1	
Styrene	ND	mg/kg	0.0042	1		11/21/17 07:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/21/17 07:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	1		11/21/17 07:42	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0042	1		11/21/17 07:42	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP3 (12-14) Lab ID: 50184499006 Collected: 11/15/17 13:10 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0042	1		11/21/17 07:42	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0042	1		11/21/17 07:42	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0042	1		11/21/17 07:42	79-00-5	
Trichloroethene	ND	mg/kg	0.0042	1		11/21/17 07:42	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0042	1		11/21/17 07:42	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0042	1		11/21/17 07:42	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0042	1		11/21/17 07:42	108-67-8	
Vinyl acetate	ND	mg/kg	0.084	1		11/21/17 07:42	108-05-4	
Vinyl chloride	ND	mg/kg	0.0042	1		11/21/17 07:42	75-01-4	
Xylene (Total)	ND	mg/kg	0.0084	1		11/21/17 07:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	120	%	69-136	1		11/21/17 07:42	1868-53-7	
Toluene-d8 (S)	126	%	64-150	1		11/21/17 07:42	2037-26-5	
4-Bromofluorobenzene (S)	68	%	51-142	1		11/21/17 07:42	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	8.9	%	0.10	1		11/16/17 16:55		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP4 (0-2) Lab ID: 50184499007 Collected: 11/15/17 13:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.4	mg/kg	1.2	1	11/16/17 13:01	11/20/17 12:51	7440-38-2	
Barium	102	mg/kg	1.2	1	11/16/17 13:01	11/20/17 12:51	7440-39-3	
Cadmium	ND	mg/kg	0.62	1	11/16/17 13:01	11/20/17 12:51	7440-43-9	
Chromium	16.7	mg/kg	1.2	1	11/16/17 13:01	11/20/17 12:51	7440-47-3	
Lead	14.9	mg/kg	1.2	1	11/16/17 13:01	11/20/17 12:51	7439-92-1	
Selenium	1.5	mg/kg	1.2	1	11/16/17 13:01	11/20/17 12:51	7782-49-2	
Silver	ND	mg/kg	0.62	1	11/16/17 13:01	11/20/17 12:51	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.25	1	11/21/17 10:13	11/21/17 17:59	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	83-32-9	
Acenaphthylene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	208-96-8	
Anthracene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	207-08-9	
Chrysene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	53-70-3	
Fluoranthene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	206-44-0	
Fluorene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	91-57-6	
Naphthalene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	91-20-3	
Phenanthrene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	85-01-8	
Pyrene	ND	mg/kg	0.0064	1	11/17/17 10:55	11/18/17 01:35	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	30-94	1	11/17/17 10:55	11/18/17 01:35	321-60-8	
p-Terphenyl-d14 (S)	59	%.	27-102	1	11/17/17 10:55	11/18/17 01:35	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.098	1		11/21/17 08:20	67-64-1	
Acrolein	ND	mg/kg	0.098	1		11/21/17 08:20	107-02-8	
Acrylonitrile	ND	mg/kg	0.098	1		11/21/17 08:20	107-13-1	
Benzene	ND	mg/kg	0.0049	1		11/21/17 08:20	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1		11/21/17 08:20	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1		11/21/17 08:20	75-27-4	
Bromoform	ND	mg/kg	0.0049	1		11/21/17 08:20	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1		11/21/17 08:20	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/21/17 08:20	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP4 (0-2) Lab ID: 50184499007 Collected: 11/15/17 13:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	98-06-6	
Carbon disulfide	ND	mg/kg	0.0098	1		11/21/17 08:20	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1		11/21/17 08:20	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1		11/21/17 08:20	75-00-3	
Chloroform	ND	mg/kg	0.0049	1		11/21/17 08:20	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1		11/21/17 08:20	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1		11/21/17 08:20	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	1		11/21/17 08:20	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0049	1		11/21/17 08:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		11/21/17 08:20	106-93-4	
Dibromomethane	ND	mg/kg	0.0049	1		11/21/17 08:20	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.098	1		11/21/17 08:20	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		11/21/17 08:20	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1		11/21/17 08:20	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1		11/21/17 08:20	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	1		11/21/17 08:20	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/21/17 08:20	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		11/21/17 08:20	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1		11/21/17 08:20	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1		11/21/17 08:20	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1		11/21/17 08:20	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1		11/21/17 08:20	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/21/17 08:20	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		11/21/17 08:20	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.098	1		11/21/17 08:20	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		11/21/17 08:20	87-68-3	
n-Hexane	ND	mg/kg	0.0049	1		11/21/17 08:20	110-54-3	
2-Hexanone	ND	mg/kg	0.098	1		11/21/17 08:20	591-78-6	
Iodomethane	ND	mg/kg	0.098	1		11/21/17 08:20	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		11/21/17 08:20	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1		11/21/17 08:20	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/21/17 08:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/21/17 08:20	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		11/21/17 08:20	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	103-65-1	
Styrene	ND	mg/kg	0.0049	1		11/21/17 08:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/21/17 08:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		11/21/17 08:20	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	1		11/21/17 08:20	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP4 (0-2) Lab ID: 50184499007 Collected: 11/15/17 13:30 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0049	1		11/21/17 08:20	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		11/21/17 08:20	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		11/21/17 08:20	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1		11/21/17 08:20	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1		11/21/17 08:20	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		11/21/17 08:20	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		11/21/17 08:20	108-67-8	
Vinyl acetate	ND	mg/kg	0.098	1		11/21/17 08:20	108-05-4	
Vinyl chloride	ND	mg/kg	0.0049	1		11/21/17 08:20	75-01-4	
Xylene (Total)	ND	mg/kg	0.0098	1		11/21/17 08:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	69-136	1		11/21/17 08:20	1868-53-7	
Toluene-d8 (S)	101	%	64-150	1		11/21/17 08:20	2037-26-5	
4-Bromofluorobenzene (S)	81	%	51-142	1		11/21/17 08:20	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	21.5	%	0.10	1		11/16/17 16:55		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP4 (4-6) Lab ID: 50184499008 Collected: 11/15/17 13:40 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.8	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:53	7440-38-2	
Barium	69.1	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:53	7440-39-3	
Cadmium	ND	mg/kg	0.54	1	11/16/17 13:01	11/20/17 12:53	7440-43-9	
Chromium	16.8	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:53	7440-47-3	
Lead	6.9	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:53	7439-92-1	
Selenium	1.7	mg/kg	1.1	1	11/16/17 13:01	11/20/17 12:53	7782-49-2	
Silver	ND	mg/kg	0.54	1	11/16/17 13:01	11/20/17 12:53	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.23	1	11/21/17 10:13	11/21/17 18:01	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	83-32-9	
Acenaphthylene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	208-96-8	
Anthracene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	207-08-9	
Chrysene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	53-70-3	
Fluoranthene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	206-44-0	
Fluorene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	91-57-6	
Naphthalene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	91-20-3	
Phenanthrene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	85-01-8	
Pyrene	ND	mg/kg	0.0059	1	11/17/17 10:55	11/18/17 01:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	65	%.	30-94	1	11/17/17 10:55	11/18/17 01:51	321-60-8	
p-Terphenyl-d14 (S)	74	%.	27-102	1	11/17/17 10:55	11/18/17 01:51	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.092	1		11/21/17 08:58	67-64-1	
Acrolein	ND	mg/kg	0.092	1		11/21/17 08:58	107-02-8	
Acrylonitrile	ND	mg/kg	0.092	1		11/21/17 08:58	107-13-1	
Benzene	ND	mg/kg	0.0046	1		11/21/17 08:58	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	108-86-1	
Bromochloromethane	ND	mg/kg	0.0046	1		11/21/17 08:58	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	1		11/21/17 08:58	75-27-4	
Bromoform	ND	mg/kg	0.0046	1		11/21/17 08:58	75-25-2	
Bromomethane	ND	mg/kg	0.0046	1		11/21/17 08:58	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		11/21/17 08:58	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP4 (4-6) Lab ID: 50184499008 Collected: 11/15/17 13:40 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	98-06-6	
Carbon disulfide	ND	mg/kg	0.0092	1		11/21/17 08:58	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0046	1		11/21/17 08:58	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	108-90-7	
Chloroethane	ND	mg/kg	0.0046	1		11/21/17 08:58	75-00-3	
Chloroform	ND	mg/kg	0.0046	1		11/21/17 08:58	67-66-3	
Chloromethane	ND	mg/kg	0.0046	1		11/21/17 08:58	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	1		11/21/17 08:58	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	1		11/21/17 08:58	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0046	1		11/21/17 08:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	1		11/21/17 08:58	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	1		11/21/17 08:58	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.092	1		11/21/17 08:58	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0046	1		11/21/17 08:58	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0046	1		11/21/17 08:58	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	1		11/21/17 08:58	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	1		11/21/17 08:58	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0046	1		11/21/17 08:58	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	1		11/21/17 08:58	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	1		11/21/17 08:58	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	1		11/21/17 08:58	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	1		11/21/17 08:58	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	1		11/21/17 08:58	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	1		11/21/17 08:58	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	1		11/21/17 08:58	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.092	1		11/21/17 08:58	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	1		11/21/17 08:58	87-68-3	
n-Hexane	ND	mg/kg	0.0046	1		11/21/17 08:58	110-54-3	
2-Hexanone	ND	mg/kg	0.092	1		11/21/17 08:58	591-78-6	
Iodomethane	ND	mg/kg	0.092	1		11/21/17 08:58	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	1		11/21/17 08:58	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0046	1		11/21/17 08:58	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		11/21/17 08:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		11/21/17 08:58	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	1		11/21/17 08:58	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	103-65-1	
Styrene	ND	mg/kg	0.0046	1		11/21/17 08:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0046	1		11/21/17 08:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0046	1		11/21/17 08:58	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0046	1		11/21/17 08:58	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: GP4 (4-6) Lab ID: 50184499008 Collected: 11/15/17 13:40 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0046	1		11/21/17 08:58	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0046	1		11/21/17 08:58	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0046	1		11/21/17 08:58	79-00-5	
Trichloroethene	ND	mg/kg	0.0046	1		11/21/17 08:58	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0046	1		11/21/17 08:58	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0046	1		11/21/17 08:58	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	1		11/21/17 08:58	108-67-8	
Vinyl acetate	ND	mg/kg	0.092	1		11/21/17 08:58	108-05-4	
Vinyl chloride	ND	mg/kg	0.0046	1		11/21/17 08:58	75-01-4	
Xylene (Total)	ND	mg/kg	0.0092	1		11/21/17 08:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	69-136	1		11/21/17 08:58	1868-53-7	
Toluene-d8 (S)	95	%	64-150	1		11/21/17 08:58	2037-26-5	
4-Bromofluorobenzene (S)	94	%	51-142	1		11/21/17 08:58	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	16.0	%	0.10	1		11/16/17 16:55		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: DUP-SL Lab ID: 50184499009 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.3	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:56	7440-38-2	
Barium	27.8	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:56	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	11/16/17 13:01	11/20/17 12:56	7440-43-9	
Chromium	10.2	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:56	7440-47-3	
Lead	4.7	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:56	7439-92-1	
Selenium	1.4	mg/kg	0.97	1	11/16/17 13:01	11/20/17 12:56	7782-49-2	
Silver	ND	mg/kg	0.49	1	11/16/17 13:01	11/20/17 12:56	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.22	1	11/21/17 10:13	11/21/17 18:03	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	207-08-9	
Chrysene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	53-70-3	
Fluoranthene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	91-20-3	
Phenanthrene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	85-01-8	
Pyrene	ND	mg/kg	0.0055	1	11/17/17 10:55	11/18/17 02:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	51	%.	30-94	1	11/17/17 10:55	11/18/17 02:08	321-60-8	
p-Terphenyl-d14 (S)	49	%.	27-102	1	11/17/17 10:55	11/18/17 02:08	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.080	1		11/21/17 09:36	67-64-1	
Acrolein	ND	mg/kg	0.080	1		11/21/17 09:36	107-02-8	
Acrylonitrile	ND	mg/kg	0.080	1		11/21/17 09:36	107-13-1	
Benzene	ND	mg/kg	0.0040	1		11/21/17 09:36	71-43-2	
Bromobenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	108-86-1	
Bromochloromethane	ND	mg/kg	0.0040	1		11/21/17 09:36	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0040	1		11/21/17 09:36	75-27-4	
Bromoform	ND	mg/kg	0.0040	1		11/21/17 09:36	75-25-2	
Bromomethane	ND	mg/kg	0.0040	1		11/21/17 09:36	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.020	1		11/21/17 09:36	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: DUP-SL Lab ID: 50184499009 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
n-Butylbenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	98-06-6	
Carbon disulfide	ND	mg/kg	0.0080	1		11/21/17 09:36	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0040	1		11/21/17 09:36	56-23-5	
Chlorobenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	108-90-7	
Chloroethane	ND	mg/kg	0.0040	1		11/21/17 09:36	75-00-3	
Chloroform	ND	mg/kg	0.0040	1		11/21/17 09:36	67-66-3	
Chloromethane	ND	mg/kg	0.0040	1		11/21/17 09:36	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0040	1		11/21/17 09:36	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0040	1		11/21/17 09:36	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0040	1		11/21/17 09:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0040	1		11/21/17 09:36	106-93-4	
Dibromomethane	ND	mg/kg	0.0040	1		11/21/17 09:36	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.080	1		11/21/17 09:36	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0040	1		11/21/17 09:36	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0040	1		11/21/17 09:36	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0040	1		11/21/17 09:36	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0040	1		11/21/17 09:36	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0040	1		11/21/17 09:36	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0040	1		11/21/17 09:36	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0040	1		11/21/17 09:36	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0040	1		11/21/17 09:36	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0040	1		11/21/17 09:36	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0040	1		11/21/17 09:36	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0040	1		11/21/17 09:36	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0040	1		11/21/17 09:36	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.080	1		11/21/17 09:36	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0040	1		11/21/17 09:36	87-68-3	
n-Hexane	ND	mg/kg	0.0040	1		11/21/17 09:36	110-54-3	
2-Hexanone	ND	mg/kg	0.080	1		11/21/17 09:36	591-78-6	
Iodomethane	ND	mg/kg	0.080	1		11/21/17 09:36	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0040	1		11/21/17 09:36	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0040	1		11/21/17 09:36	99-87-6	
Methylene Chloride	ND	mg/kg	0.016	1		11/21/17 09:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.020	1		11/21/17 09:36	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0040	1		11/21/17 09:36	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	103-65-1	
Styrene	ND	mg/kg	0.0040	1		11/21/17 09:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0040	1		11/21/17 09:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0040	1		11/21/17 09:36	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0040	1		11/21/17 09:36	127-18-4	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: DUP-SL Lab ID: 50184499009 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Toluene	ND	mg/kg	0.0040	1		11/21/17 09:36	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0040	1		11/21/17 09:36	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0040	1		11/21/17 09:36	79-00-5	
Trichloroethene	ND	mg/kg	0.0040	1		11/21/17 09:36	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0040	1		11/21/17 09:36	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0040	1		11/21/17 09:36	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0040	1		11/21/17 09:36	108-67-8	
Vinyl acetate	ND	mg/kg	0.080	1		11/21/17 09:36	108-05-4	
Vinyl chloride	ND	mg/kg	0.0040	1		11/21/17 09:36	75-01-4	
Xylene (Total)	ND	mg/kg	0.0080	1		11/21/17 09:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	119	%	69-136	1		11/21/17 09:36	1868-53-7	
Toluene-d8 (S)	124	%	64-150	1		11/21/17 09:36	2037-26-5	
4-Bromofluorobenzene (S)	71	%	51-142	1		11/21/17 09:36	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	8.9	%	0.10	1		11/16/17 16:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: TB-SL Lab ID: 50184499010 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	mg/kg	0.10	1		11/21/17 10:13	67-64-1	
Acrolein	ND	mg/kg	0.10	1		11/21/17 10:13	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		11/21/17 10:13	107-13-1	
Benzene	ND	mg/kg	0.0050	1		11/21/17 10:13	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		11/21/17 10:13	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		11/21/17 10:13	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		11/21/17 10:13	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		11/21/17 10:13	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		11/21/17 10:13	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		11/21/17 10:13	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		11/21/17 10:13	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		11/21/17 10:13	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		11/21/17 10:13	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		11/21/17 10:13	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		11/21/17 10:13	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		11/21/17 10:13	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		11/21/17 10:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		11/21/17 10:13	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		11/21/17 10:13	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		11/21/17 10:13	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		11/21/17 10:13	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		11/21/17 10:13	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		11/21/17 10:13	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		11/21/17 10:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/21/17 10:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		11/21/17 10:13	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		11/21/17 10:13	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		11/21/17 10:13	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		11/21/17 10:13	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		11/21/17 10:13	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/21/17 10:13	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		11/21/17 10:13	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		11/21/17 10:13	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		11/21/17 10:13	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		11/21/17 10:13	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		11/21/17 10:13	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		11/21/17 10:13	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Sample: TB-SL Lab ID: 50184499010 Collected: 11/15/17 08:00 Received: 11/15/17 17:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		11/21/17 10:13	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		11/21/17 10:13	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		11/21/17 10:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		11/21/17 10:13	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		11/21/17 10:13	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	103-65-1	
Styrene	ND	mg/kg	0.0050	1		11/21/17 10:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/21/17 10:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		11/21/17 10:13	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		11/21/17 10:13	127-18-4	
Toluene	ND	mg/kg	0.0050	1		11/21/17 10:13	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		11/21/17 10:13	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		11/21/17 10:13	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		11/21/17 10:13	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		11/21/17 10:13	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		11/21/17 10:13	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		11/21/17 10:13	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		11/21/17 10:13	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		11/21/17 10:13	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		11/21/17 10:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	69-136	1		11/21/17 10:13	1868-53-7	
Toluene-d8 (S)	93	%.	64-150	1		11/21/17 10:13	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	51-142	1		11/21/17 10:13	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

QC Batch:	416352	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	50184499001, 50184499002, 50184499003, 50184499004, 50184499005, 50184499006, 50184499007, 50184499008, 50184499009		

METHOD BLANK:	1917406	Matrix:	Solid
Associated Lab Samples:	50184499001, 50184499002, 50184499003, 50184499004, 50184499005, 50184499006, 50184499007, 50184499008, 50184499009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.19	11/21/17 17:06	

LABORATORY CONTROL SAMPLE: 1917407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.49	0.48	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917408 1917409

Parameter	Units	50184499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.47	.57	.56	1.1	1.0	105	99	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site
Pace Project No.: 50184499

QC Batch: 415570 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50184499001, 50184499002, 50184499003, 50184499004, 50184499005, 50184499006, 50184499007, 50184499008, 50184499009

METHOD BLANK: 1913440 Matrix: Solid
Associated Lab Samples: 50184499001, 50184499002, 50184499003, 50184499004, 50184499005, 50184499006, 50184499007, 50184499008, 50184499009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	11/20/17 11:43	
Barium	mg/kg	ND	1.0	11/20/17 11:43	
Cadmium	mg/kg	ND	0.50	11/20/17 11:43	
Chromium	mg/kg	ND	1.0	11/20/17 11:43	
Lead	mg/kg	ND	1.0	11/20/17 11:43	
Selenium	mg/kg	ND	1.0	11/20/17 11:43	
Silver	mg/kg	ND	0.50	11/20/17 11:43	

LABORATORY CONTROL SAMPLE: 1913441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.6	101	80-120	
Barium	mg/kg	50	50.2	100	80-120	
Cadmium	mg/kg	50	49.2	98	80-120	
Chromium	mg/kg	50	50.7	101	80-120	
Lead	mg/kg	50	47.4	95	80-120	
Selenium	mg/kg	50	50.4	101	80-120	
Silver	mg/kg	25	25.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913442 1913443

Parameter	Units	50184499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	9.4	48.3	49	58.4	57.7	101	99	75-125	1	20	
Barium	mg/kg	121	48.3	49	168	160	97	80	75-125	4	20	
Cadmium	mg/kg	0.98	48.3	49	49.4	50.0	100	100	75-125	1	20	
Chromium	mg/kg	11.6	48.3	49	56.2	54.1	92	87	75-125	4	20	
Lead	mg/kg	132	48.3	49	180	211	99	162	75-125	16	20 MO	
Selenium	mg/kg	1.8	48.3	49	46.7	47.8	93	94	75-125	2	20	
Silver	mg/kg	ND	24.2	24.5	25.3	25.4	103	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

QC Batch:	416314	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	50184499001, 50184499002, 50184499003, 50184499004, 50184499005, 50184499006, 50184499007, 50184499008, 50184499009, 50184499010		

METHOD BLANK:	1917268	Matrix:	Solid
Associated Lab Samples:	50184499001, 50184499002, 50184499003, 50184499004, 50184499005, 50184499006, 50184499007, 50184499008, 50184499009, 50184499010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	11/21/17 01:25	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	11/21/17 01:25	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	11/21/17 01:25	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	11/21/17 01:25	
1,1-Dichloroethane	mg/kg	ND	0.0050	11/21/17 01:25	
1,1-Dichloroethene	mg/kg	ND	0.0050	11/21/17 01:25	
1,1-Dichloropropene	mg/kg	ND	0.0050	11/21/17 01:25	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	11/21/17 01:25	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	11/21/17 01:25	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	11/21/17 01:25	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	11/21/17 01:25	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	11/21/17 01:25	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 01:25	
1,2-Dichloroethane	mg/kg	ND	0.0050	11/21/17 01:25	
1,2-Dichloropropane	mg/kg	ND	0.0050	11/21/17 01:25	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	11/21/17 01:25	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 01:25	
1,3-Dichloropropane	mg/kg	ND	0.0050	11/21/17 01:25	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	11/21/17 01:25	
2,2-Dichloropropane	mg/kg	ND	0.0050	11/21/17 01:25	
2-Butanone (MEK)	mg/kg	ND	0.025	11/21/17 01:25	
2-Chlorotoluene	mg/kg	ND	0.0050	11/21/17 01:25	
2-Hexanone	mg/kg	ND	0.10	11/21/17 01:25	
4-Chlorotoluene	mg/kg	ND	0.0050	11/21/17 01:25	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	11/21/17 01:25	
Acetone	mg/kg	ND	0.10	11/21/17 01:25	
Acrolein	mg/kg	ND	0.10	11/21/17 01:25	
Acrylonitrile	mg/kg	ND	0.10	11/21/17 01:25	
Benzene	mg/kg	ND	0.0050	11/21/17 01:25	
Bromobenzene	mg/kg	ND	0.0050	11/21/17 01:25	
Bromochloromethane	mg/kg	ND	0.0050	11/21/17 01:25	
Bromodichloromethane	mg/kg	ND	0.0050	11/21/17 01:25	
Bromoform	mg/kg	ND	0.0050	11/21/17 01:25	
Bromomethane	mg/kg	ND	0.0050	11/21/17 01:25	
Carbon disulfide	mg/kg	ND	0.010	11/21/17 01:25	
Carbon tetrachloride	mg/kg	ND	0.0050	11/21/17 01:25	
Chlorobenzene	mg/kg	ND	0.0050	11/21/17 01:25	
Chloroethane	mg/kg	ND	0.0050	11/21/17 01:25	
Chloroform	mg/kg	ND	0.0050	11/21/17 01:25	
Chloromethane	mg/kg	ND	0.0050	11/21/17 01:25	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

METHOD BLANK: 1917268

Matrix: Solid

Associated Lab Samples: 50184499001, 50184499002, 50184499003, 50184499004, 50184499005, 50184499006, 50184499007, 50184499008, 50184499009, 50184499010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	11/21/17 01:25	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	11/21/17 01:25	
Dibromochloromethane	mg/kg	ND	0.0050	11/21/17 01:25	
Dibromomethane	mg/kg	ND	0.0050	11/21/17 01:25	
Dichlorodifluoromethane	mg/kg	ND	0.0050	11/21/17 01:25	
Ethyl methacrylate	mg/kg	ND	0.10	11/21/17 01:25	
Ethylbenzene	mg/kg	ND	0.0050	11/21/17 01:25	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	11/21/17 01:25	
Iodomethane	mg/kg	ND	0.10	11/21/17 01:25	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	11/21/17 01:25	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	11/21/17 01:25	
Methylene Chloride	mg/kg	ND	0.020	11/21/17 01:25	
n-Butylbenzene	mg/kg	ND	0.0050	11/21/17 01:25	
n-Hexane	mg/kg	ND	0.0050	11/21/17 01:25	
n-Propylbenzene	mg/kg	ND	0.0050	11/21/17 01:25	
p-Isopropyltoluene	mg/kg	ND	0.0050	11/21/17 01:25	
sec-Butylbenzene	mg/kg	ND	0.0050	11/21/17 01:25	
Styrene	mg/kg	ND	0.0050	11/21/17 01:25	
tert-Butylbenzene	mg/kg	ND	0.0050	11/21/17 01:25	
Tetrachloroethene	mg/kg	ND	0.0050	11/21/17 01:25	
Toluene	mg/kg	ND	0.0050	11/21/17 01:25	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	11/21/17 01:25	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	11/21/17 01:25	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	11/21/17 01:25	
Trichloroethene	mg/kg	ND	0.0050	11/21/17 01:25	
Trichlorofluoromethane	mg/kg	ND	0.0050	11/21/17 01:25	
Vinyl acetate	mg/kg	ND	0.10	11/21/17 01:25	
Vinyl chloride	mg/kg	ND	0.0050	11/21/17 01:25	
Xylene (Total)	mg/kg	ND	0.010	11/21/17 01:25	
4-Bromofluorobenzene (S)	%	101	51-142	11/21/17 01:25	
Dibromofluoromethane (S)	%	103	69-136	11/21/17 01:25	
Toluene-d8 (S)	%	94	64-150	11/21/17 01:25	

LABORATORY CONTROL SAMPLE: 1917269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.047	95	76-126	
1,1,1-Trichloroethane	mg/kg	.05	0.045	89	72-126	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	100	68-125	
1,1,2-Trichloroethane	mg/kg	.05	0.048	97	72-124	
1,1-Dichloroethane	mg/kg	.05	0.044	89	78-117	
1,1-Dichloroethene	mg/kg	.05	0.039	78	70-132	
1,1-Dichloropropene	mg/kg	.05	0.042	84	79-121	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

LABORATORY CONTROL SAMPLE: 1917269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	.05	0.043	86	65-117	
1,2,3-Trichloropropane	mg/kg	.05	0.053	105	78-128	
1,2,4-Trichlorobenzene	mg/kg	.05	0.037	74	58-121	
1,2,4-Trimethylbenzene	mg/kg	.05	0.042	83	70-118	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.049	98	76-127	
1,2-Dichlorobenzene	mg/kg	.05	0.043	86	72-114	
1,2-Dichloroethane	mg/kg	.05	0.045	91	70-119	
1,2-Dichloropropane	mg/kg	.05	0.051	103	76-122	
1,3,5-Trimethylbenzene	mg/kg	.05	0.042	85	71-122	
1,3-Dichlorobenzene	mg/kg	.05	0.041	82	70-115	
1,3-Dichloropropane	mg/kg	.05	0.049	98	76-130	
1,4-Dichlorobenzene	mg/kg	.05	0.040	80	68-113	
2,2-Dichloropropane	mg/kg	.05	0.042	84	66-125	
2-Butanone (MEK)	mg/kg	.25	0.24	95	56-161	
2-Chlorotoluene	mg/kg	.05	0.044	88	69-122	
2-Hexanone	mg/kg	.25	0.26	105	67-141	
4-Chlorotoluene	mg/kg	.05	0.043	86	70-118	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.26	105	72-125	
Acetone	mg/kg	.25	0.21	83	24-194	
Acrolein	mg/kg	1	1.3	134	23-200	
Acrylonitrile	mg/kg	.2	0.17	85	70-122	
Benzene	mg/kg	.05	0.048	95	75-119	
Bromobenzene	mg/kg	.05	0.044	88	73-119	
Bromochloromethane	mg/kg	.05	0.050	100	73-117	
Bromodichloromethane	mg/kg	.05	0.045	91	73-120	
Bromoform	mg/kg	.05	0.049	98	65-121	
Bromomethane	mg/kg	.05	0.039	77	28-161	
Carbon disulfide	mg/kg	.05	0.036	73	64-115	
Carbon tetrachloride	mg/kg	.05	0.046	93	74-130	
Chlorobenzene	mg/kg	.05	0.045	89	75-114	
Chloroethane	mg/kg	.05	0.042	83	46-129	
Chloroform	mg/kg	.05	0.045	90	71-114	
Chloromethane	mg/kg	.05	0.039	78	39-121	
cis-1,2-Dichloroethene	mg/kg	.05	0.044	87	79-121	
cis-1,3-Dichloropropene	mg/kg	.05	0.046	92	73-132	
Dibromochloromethane	mg/kg	.05	0.048	97	73-123	
Dibromomethane	mg/kg	.05	0.049	98	79-119	
Dichlorodifluoromethane	mg/kg	.05	0.027	54	44-155	
Ethyl methacrylate	mg/kg	.2	0.21	105	74-136	
Ethylbenzene	mg/kg	.05	0.043	86	73-121	
Hexachloro-1,3-butadiene	mg/kg	.05	0.039	78	65-131	
Iodomethane	mg/kg	.1	.088J	88	44-168	
Isopropylbenzene (Cumene)	mg/kg	.05	0.045	91	72-122	
Methyl-tert-butyl ether	mg/kg	.05	0.046	91	74-121	
Methylene Chloride	mg/kg	.05	0.042	85	61-140	
n-Butylbenzene	mg/kg	.05	0.039	78	64-125	
n-Hexane	mg/kg	.05	0.042	84	69-116	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

LABORATORY CONTROL SAMPLE: 1917269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	mg/kg	.05	0.044	87	70-127	
p-Isopropyltoluene	mg/kg	.05	0.041	81	71-123	
sec-Butylbenzene	mg/kg	.05	0.043	86	72-129	
Styrene	mg/kg	.05	0.044	88	72-127	
tert-Butylbenzene	mg/kg	.05	0.034	68	57-108	
Tetrachloroethene	mg/kg	.05	0.038	76	68-120	
Toluene	mg/kg	.05	0.045	90	71-114	
trans-1,2-Dichloroethene	mg/kg	.05	0.038	76	76-125	
trans-1,3-Dichloropropene	mg/kg	.05	0.046	92	69-133	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.18	91	58-132	
Trichloroethene	mg/kg	.05	0.045	90	77-115	
Trichlorofluoromethane	mg/kg	.05	0.042	85	61-142	
Vinyl acetate	mg/kg	.2	0.22	108	64-139	
Vinyl chloride	mg/kg	.05	0.039	78	66-139	
Xylene (Total)	mg/kg	.15	0.13	87	71-119	
4-Bromofluorobenzene (S)	%			102	51-142	
Dibromofluoromethane (S)	%			96	69-136	
Toluene-d8 (S)	%			99	64-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917270 1917271

Parameter	Units	50184499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	mg/kg	ND	.053	.053	0.048	0.045	92	86	27-152	6	20	
1,1,1-Trichloroethane	mg/kg	ND	.053	.053	0.049	0.049	93	93	31-146	1	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.053	.053	0.055	0.050	105	96	22-171	9	20	
1,1,2-Trichloroethane	mg/kg	ND	.053	.053	0.046	0.044	89	84	33-156	5	20	
1,1-Dichloroethane	mg/kg	ND	.053	.053	0.046	0.047	88	89	54-142	2	20	
1,1-Dichloroethene	mg/kg	ND	.053	.053	0.043	0.043	83	82	53-154	0	20	
1,1-Dichloropropene	mg/kg	ND	.053	.053	0.046	0.046	89	88	40-146	1	20	
1,2,3-Trichlorobenzene	mg/kg	ND	.053	.053	0.024	0.022	46	41	10-124	11	20	
1,2,3-Trichloropropane	mg/kg	ND	.053	.053	0.059	0.054	113	103	39-177	9	20	
1,2,4-Trichlorobenzene	mg/kg	ND	.053	.053	0.027	0.025	52	48	10-126	8	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.053	.053	0.059	0.056	113	106	10-162	6	20	
1,2-Dibromoethane (EDB)	mg/kg	ND	.053	.053	0.042	0.038	80	73	28-155	9	20	
1,2-Dichlorobenzene	mg/kg	ND	.053	.053	0.040	0.036	77	69	10-142	11	20	
1,2-Dichloroethane	mg/kg	ND	.053	.053	0.039	0.040	75	76	45-133	1	20	
1,2-Dichloropropane	mg/kg	ND	.053	.053	0.049	0.048	93	90	49-140	2	20	
1,3,5-Trimethylbenzene	mg/kg	ND	.053	.053	0.066	0.061	126	116	10-151	8	20	
1,3-Dichlorobenzene	mg/kg	ND	.053	.053	0.045	0.041	87	79	10-138	10	20	
1,3-Dichloropropane	mg/kg	ND	.053	.053	0.046	0.043	88	81	37-158	8	20	
1,4-Dichlorobenzene	mg/kg	ND	.053	.053	0.041	0.037	79	71	10-137	9	20	
2,2-Dichloropropane	mg/kg	ND	.053	.053	0.050	0.050	96	95	43-146	0	20	
2-Butanone (MEK)	mg/kg	ND	.26	.26	0.22	0.25	84	95	25-197	13	20	
2-Chlorotoluene	mg/kg	ND	.053	.053	0.061	0.058	117	110	10-171	6	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917270 1917271											
Parameter	Units	50184499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Hexanone	mg/kg	ND	.26	.26	0.24	0.24	91	90	21-184	1	20
4-Chlorotoluene	mg/kg	ND	.053	.053	0.057	0.052	110	99	10-152	10	20
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.26	.26	0.27	0.25	102	97	31-169	4	20
Acetone	mg/kg	ND	.26	.26	0.25	0.31	97	120	22-200	22	20 R1
Acrolein	mg/kg	ND	1	1.1	1.3	1.3	122	121	10-200	0	20
Acrylonitrile	mg/kg	ND	.21	.21	0.15	0.15	70	69	20-165	1	20
Benzene	mg/kg	ND	.053	.053	0.047	0.047	90	90	43-141	0	20
Bromobenzene	mg/kg	ND	.053	.053	0.033	0.031	64	58	10-143	9	20
Bromochloromethane	mg/kg	ND	.053	.053	0.044	0.045	85	86	52-135	2	20
Bromodichloromethane	mg/kg	ND	.053	.053	0.040	0.040	77	77	27-145	1	20
Bromoform	mg/kg	ND	.053	.053	0.056	0.051	107	96	19-154	10	20
Bromomethane	mg/kg	ND	.053	.053	0.040	0.040	77	75	14-170	1	20
Carbon disulfide	mg/kg	ND	.053	.053	0.039	0.039	74	74	28-137	0	20
Carbon tetrachloride	mg/kg	ND	.053	.053	0.051	0.051	97	97	41-150	0	20
Chlorobenzene	mg/kg	ND	.053	.053	0.042	0.040	80	76	20-141	5	20
Chloroethane	mg/kg	ND	.053	.053	0.045	0.045	87	85	34-147	1	20
Chloroform	mg/kg	ND	.053	.053	0.045	0.045	86	85	49-134	0	20
Chloromethane	mg/kg	ND	.053	.053	0.041	0.039	79	74	27-136	5	20
cis-1,2-Dichloroethene	mg/kg	ND	.053	.053	0.042	0.042	80	79	50-144	1	20
cis-1,3-Dichloropropene	mg/kg	ND	.053	.053	0.045	0.042	87	81	22-161	7	20
Dibromochloromethane	mg/kg	ND	.053	.053	0.045	0.042	86	79	25-146	7	20
Dibromomethane	mg/kg	ND	.053	.053	0.039	0.038	74	73	39-142	2	20
Dichlorodifluoromethane	mg/kg	ND	.053	.053	0.031	0.031	60	60	20-186	0	20
Ethyl methacrylate	mg/kg	ND	.21	.21	0.15	0.14	73	68	10-170	6	20
Ethylbenzene	mg/kg	ND	.053	.053	0.052	0.050	100	94	21-149	5	20
Hexachloro-1,3-butadiene	mg/kg	ND	.053	.053	0.056	0.046	107	88	10-152	18	20
Iodomethane	mg/kg	ND	.1	.11	.091J	.087J	87	83	10-189		20
Isopropylbenzene (Cumene)	mg/kg	ND	.053	.053	0.052	0.049	99	94	15-152	4	20
Methyl-tert-butyl ether	mg/kg	ND	.053	.053	0.047	0.047	90	89	60-141	0	20
Methylene Chloride	mg/kg	ND	.053	.053	0.040	0.039	76	73	41-145	3	20
n-Butylbenzene	mg/kg	ND	.053	.053	0.062	0.058	119	111	10-154	6	20
n-Hexane	mg/kg	ND	.053	.053	0.051	0.052	98	99	23-146	2	20
n-Propylbenzene	mg/kg	ND	.053	.053	0.072	0.068	138	130	10-183	5	20
p-Isopropyltoluene	mg/kg	ND	.053	.053	0.066	0.062	126	117	10-183	6	20
sec-Butylbenzene	mg/kg	ND	.053	.053	0.074	0.068	142	130	10-184	8	20
Styrene	mg/kg	ND	.053	.053	0.037	0.034	71	65	10-154	9	20
tert-Butylbenzene	mg/kg	ND	.053	.053	0.058	0.054	112	102	10-173	8	20
Tetrachloroethene	mg/kg	ND	.053	.053	0.049	0.047	93	89	21-155	4	20
Toluene	mg/kg	ND	.053	.053	0.052	0.050	100	95	30-146	5	20
trans-1,2-Dichloroethene	mg/kg	ND	.053	.053	0.039	0.039	74	75	50-146	1	20
trans-1,3-Dichloropropene	mg/kg	ND	.053	.053	0.039	0.036	74	69	15-157	6	20
trans-1,4-Dichloro-2-butene	mg/kg	ND	.21	.21	0.12	0.11	59	52	10-155	11	20
Trichloroethene	mg/kg	ND	.053	.053	0.046	0.046	89	88	25-162	0	20
Trichlorofluoromethane	mg/kg	ND	.053	.053	0.048	0.049	93	93	42-164	1	20
Vinyl acetate	mg/kg	ND	.21	.21	ND	ND	14	13	10-173		20

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917270 1917271												
Parameter	Units	50184499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Vinyl chloride	mg/kg	ND	.053	.053	0.043	0.044	83	83	51-160	0	20	
Xylene (Total)	mg/kg	ND	.15	.15	0.16	0.15	101	93	15-151	8	20	
4-Bromofluorobenzene (S)	%.						86	86	51-142			
Dibromofluoromethane (S)	%.						99	98	69-136			
Toluene-d8 (S)	%.						111	110	64-150			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

QC Batch: 415791 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50184499001, 50184499002, 50184499003, 50184499004

METHOD BLANK: 1914791 Matrix: Solid
Associated Lab Samples: 50184499001, 50184499002, 50184499003, 50184499004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0049	11/17/17 17:53	N2
2-Methylnaphthalene	mg/kg	ND	0.0049	11/17/17 17:53	
Acenaphthene	mg/kg	ND	0.0049	11/17/17 17:53	
Acenaphthylene	mg/kg	ND	0.0049	11/17/17 17:53	
Anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(a)anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(a)pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(b)fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(g,h,i)perylene	mg/kg	ND	0.0049	11/17/17 17:53	
Benzo(k)fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Chrysene	mg/kg	ND	0.0049	11/17/17 17:53	
Dibenz(a,h)anthracene	mg/kg	ND	0.0049	11/17/17 17:53	
Fluoranthene	mg/kg	ND	0.0049	11/17/17 17:53	
Fluorene	mg/kg	ND	0.0049	11/17/17 17:53	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
Naphthalene	mg/kg	ND	0.0049	11/17/17 17:53	
Phenanthrene	mg/kg	ND	0.0049	11/17/17 17:53	
Pyrene	mg/kg	ND	0.0049	11/17/17 17:53	
2-Fluorobiphenyl (S)	%	73	30-94	11/17/17 17:53	
p-Terphenyl-d14 (S)	%	89	27-102	11/17/17 17:53	

LABORATORY CONTROL SAMPLE: 1914792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.23	69	38-105	N2
2-Methylnaphthalene	mg/kg	.33	0.23	69	38-104	
Acenaphthene	mg/kg	.33	0.22	68	39-108	
Acenaphthylene	mg/kg	.33	0.25	76	39-108	
Anthracene	mg/kg	.33	0.22	68	41-119	
Benzo(a)anthracene	mg/kg	.33	0.26	80	42-125	
Benzo(a)pyrene	mg/kg	.33	0.25	77	33-143	
Benzo(b)fluoranthene	mg/kg	.33	0.20	60	31-143	
Benzo(g,h,i)perylene	mg/kg	.33	0.23	70	34-138	
Benzo(k)fluoranthene	mg/kg	.33	0.28	84	32-140	
Chrysene	mg/kg	.33	0.25	75	44-121	
Dibenz(a,h)anthracene	mg/kg	.33	0.23	70	32-144	
Fluoranthene	mg/kg	.33	0.27	81	42-122	
Fluorene	mg/kg	.33	0.24	74	40-114	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.23	70	33-142	
Naphthalene	mg/kg	.33	0.22	67	37-101	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

LABORATORY CONTROL SAMPLE: 1914792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.23	70	40-116	
Pyrene	mg/kg	.33	0.23	70	43-121	
2-Fluorobiphenyl (S)	%.			63	30-94	
p-Terphenyl-d14 (S)	%.			73	27-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914793 1914794

Parameter	Units	50184499001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
			Spike Conc.	Spike Conc.								
1-Methylnaphthalene	mg/kg	ND	.36	.36	0.036	0.048	10	13	14-124	27	20	M1,N2, R1
2-Methylnaphthalene	mg/kg	ND	.36	.36	0.036	0.048	10	13	13-123	27	20	M1,R1
Acenaphthene	mg/kg	ND	.36	.36	0.034	0.047	9	13	20-120	32	20	M1,R1
Acenaphthylene	mg/kg	ND	.36	.36	0.039	0.053	11	15	22-116	30	20	M1,R1
Anthracene	mg/kg	ND	.36	.36	0.036	0.059	5	12	19-128	49	20	M1,R1
Benzo(a)anthracene	mg/kg	0.047	.36	.36	0.063	0.094	4	13	16-134	40	20	M1,R1
Benzo(a)pyrene	mg/kg	0.042	.36	.36	0.057	0.082	4	11	10-148	36	20	M1,R1
Benzo(b)fluoranthene	mg/kg	0.035	.36	.36	0.046	0.082	3	13	10-148	56	20	M1,R1
Benzo(g,h,i)perylene	mg/kg	0.037	.36	.36	0.048	0.069	3	9	10-141	35	20	M1,R1
Benzo(k)fluoranthene	mg/kg	0.041	.36	.36	0.062	0.075	6	10	10-146	20	20	M1
Chrysene	mg/kg	0.056	.36	.36	0.070	0.10	4	12	15-133	36	20	M1,R1
Dibenz(a,h)anthracene	mg/kg	ND	.36	.36	0.033	0.046	7	10	10-142	33	20	M1,R1
Fluoranthene	mg/kg	0.12	.36	.36	0.12	0.18	0	16	13-135	40	20	M1,R1
Fluorene	mg/kg	ND	.36	.36	0.035	0.049	10	13	21-125	33	20	M1,R1
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.36	.36	0.041	0.059	5	10	10-143	35	20	M1,R1
Naphthalene	mg/kg	ND	.36	.36	0.036	0.046	10	13	12-123	26	20	ED, M1,R1
Phenanthrene	mg/kg	0.087	.36	.36	0.095	0.14	2	16	13-133	41	20	M1,R1
Pyrene	mg/kg	0.091	.36	.36	0.091	0.14	0	12	11-137	39	20	M1,R1
2-Fluorobiphenyl (S)	%.						8	11	30-94			S4
p-Terphenyl-d14 (S)	%.						9	12	27-102			S4

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site
Pace Project No.: 50184499

QC Batch: 415792 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50184499005, 50184499006, 50184499007, 50184499008, 50184499009

METHOD BLANK: 1914795 Matrix: Solid
Associated Lab Samples: 50184499005, 50184499006, 50184499007, 50184499008, 50184499009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	11/18/17 00:29	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	11/18/17 00:29	
Acenaphthene	mg/kg	ND	0.0050	11/18/17 00:29	
Acenaphthylene	mg/kg	ND	0.0050	11/18/17 00:29	
Anthracene	mg/kg	ND	0.0050	11/18/17 00:29	
Benzo(a)anthracene	mg/kg	ND	0.0050	11/18/17 00:29	
Benzo(a)pyrene	mg/kg	ND	0.0050	11/18/17 00:29	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	11/18/17 00:29	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	11/18/17 00:29	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	11/18/17 00:29	
Chrysene	mg/kg	ND	0.0050	11/18/17 00:29	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	11/18/17 00:29	
Fluoranthene	mg/kg	ND	0.0050	11/18/17 00:29	
Fluorene	mg/kg	ND	0.0050	11/18/17 00:29	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	11/18/17 00:29	
Naphthalene	mg/kg	ND	0.0050	11/18/17 00:29	
Phenanthrene	mg/kg	ND	0.0050	11/18/17 00:29	
Pyrene	mg/kg	ND	0.0050	11/18/17 00:29	
2-Fluorobiphenyl (S)	%	64	30-94	11/18/17 00:29	
p-Terphenyl-d14 (S)	%	77	27-102	11/18/17 00:29	

LABORATORY CONTROL SAMPLE: 1914796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.24	73	38-105	N2
2-Methylnaphthalene	mg/kg	.33	0.24	73	38-104	
Acenaphthene	mg/kg	.33	0.24	72	39-108	
Acenaphthylene	mg/kg	.33	0.27	80	39-108	
Anthracene	mg/kg	.33	0.23	69	41-119	
Benzo(a)anthracene	mg/kg	.33	0.27	80	42-125	
Benzo(a)pyrene	mg/kg	.33	0.26	78	33-143	
Benzo(b)fluoranthene	mg/kg	.33	0.26	78	31-143	
Benzo(g,h,i)perylene	mg/kg	.33	0.24	71	34-138	
Benzo(k)fluoranthene	mg/kg	.33	0.23	69	32-140	
Chrysene	mg/kg	.33	0.25	76	44-121	
Dibenz(a,h)anthracene	mg/kg	.33	0.24	72	32-144	
Fluoranthene	mg/kg	.33	0.27	81	42-122	
Fluorene	mg/kg	.33	0.25	76	40-114	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.24	71	33-142	
Naphthalene	mg/kg	.33	0.23	70	37-101	

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: Convention Center - Hotel Site
Pace Project No.: 50184499

LABORATORY CONTROL SAMPLE: 1914796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.24	72	40-116	
Pyrene	mg/kg	.33	0.24	72	43-121	
2-Fluorobiphenyl (S)	%.			63	30-94	
p-Terphenyl-d14 (S)	%.			71	27-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914797 1914798

Parameter	Units	50184472008		MS		MSD		MS		MSD		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec	% Rec	% Rec	Limits	RPD	RPD	RPD	
1-Methylnaphthalene	mg/kg	ND	.37	.37	.37	0.24	0.24	65	66	14-124	0	20	N2							
2-Methylnaphthalene	mg/kg	ND	.37	.37	.37	0.24	0.24	65	65	13-123	0	20								
Acenaphthene	mg/kg	ND	.37	.37	.37	0.23	0.23	62	61	20-120	0	20								
Acenaphthylene	mg/kg	ND	.37	.37	.37	0.26	0.26	71	71	22-116	0	20								
Anthracene	mg/kg	ND	.37	.37	.37	0.20	0.21	55	56	19-128	2	20								
Benzo(a)anthracene	mg/kg	ND	.37	.37	.37	0.23	0.22	61	61	16-134	1	20								
Benzo(a)pyrene	mg/kg	ND	.37	.37	.37	0.22	0.22	60	59	10-148	1	20								
Benzo(b)fluoranthene	mg/kg	ND	.37	.37	.37	0.17	0.17	47	46	10-148	2	20								
Benzo(g,h,i)perylene	mg/kg	ND	.37	.37	.37	0.19	0.18	51	49	10-141	2	20								
Benzo(k)fluoranthene	mg/kg	ND	.37	.37	.37	0.24	0.23	64	63	10-146	2	20								
Chrysene	mg/kg	ND	.37	.37	.37	0.23	0.23	63	62	15-133	2	20								
Dibenz(a,h)anthracene	mg/kg	ND	.37	.37	.37	0.21	0.20	56	55	10-142	2	20								
Fluoranthene	mg/kg	ND	.37	.37	.37	0.23	0.23	61	62	13-135	1	20								
Fluorene	mg/kg	ND	.37	.37	.37	0.24	0.24	64	64	21-125	0	20								
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.37	.37	.37	0.19	0.18	51	50	10-143	3	20								
Naphthalene	mg/kg	ND	.37	.37	.37	0.24	0.25	66	66	12-123	0	20								
Phenanthrene	mg/kg	ND	.37	.37	.37	0.21	0.22	58	59	13-133	1	20								
Pyrene	mg/kg	ND	.37	.37	.37	0.21	0.21	56	56	11-137	1	20								
2-Fluorobiphenyl (S)	%.							59	59	30-94										
p-Terphenyl-d14 (S)	%.							61	61	27-102										

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

QC Batch:	415590	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540G	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	50184499001, 50184499002, 50184499003, 50184499004, 50184499005, 50184499006, 50184499007, 50184499008, 50184499009		

SAMPLE DUPLICATE: 1913521

Parameter	Units	50184499001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.0	8.5	5	5	

SAMPLE DUPLICATE: 1913522

Parameter	Units	50184383001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.0	21.2	1	5	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

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.

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

ED Due to the extract's physical characteristics, the analysis was performed at dilution.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184499

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184499001	GP1 (0-2)	EPA 3050	415570	EPA 6010	416230
50184499002	GP1 (12-14)	EPA 3050	415570	EPA 6010	416230
50184499003	GP2 (0-2)	EPA 3050	415570	EPA 6010	416230
50184499004	GP2 (4-6)	EPA 3050	415570	EPA 6010	416230
50184499005	GP3 (0-2)	EPA 3050	415570	EPA 6010	416230
50184499006	GP3 (12-14)	EPA 3050	415570	EPA 6010	416230
50184499007	GP4 (0-2)	EPA 3050	415570	EPA 6010	416230
50184499008	GP4 (4-6)	EPA 3050	415570	EPA 6010	416230
50184499009	DUP-SL	EPA 3050	415570	EPA 6010	416230
50184499001	GP1 (0-2)	EPA 7471	416352	EPA 7471	416601
50184499002	GP1 (12-14)	EPA 7471	416352	EPA 7471	416601
50184499003	GP2 (0-2)	EPA 7471	416352	EPA 7471	416601
50184499004	GP2 (4-6)	EPA 7471	416352	EPA 7471	416601
50184499005	GP3 (0-2)	EPA 7471	416352	EPA 7471	416601
50184499006	GP3 (12-14)	EPA 7471	416352	EPA 7471	416601
50184499007	GP4 (0-2)	EPA 7471	416352	EPA 7471	416601
50184499008	GP4 (4-6)	EPA 7471	416352	EPA 7471	416601
50184499009	DUP-SL	EPA 7471	416352	EPA 7471	416601
50184499001	GP1 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184499002	GP1 (12-14)	EPA 3546	415791	EPA 8270 by SIM	415946
50184499003	GP2 (0-2)	EPA 3546	415791	EPA 8270 by SIM	415946
50184499004	GP2 (4-6)	EPA 3546	415791	EPA 8270 by SIM	415946
50184499005	GP3 (0-2)	EPA 3546	415792	EPA 8270 by SIM	415945
50184499006	GP3 (12-14)	EPA 3546	415792	EPA 8270 by SIM	415945
50184499007	GP4 (0-2)	EPA 3546	415792	EPA 8270 by SIM	415945
50184499008	GP4 (4-6)	EPA 3546	415792	EPA 8270 by SIM	415945
50184499009	DUP-SL	EPA 3546	415792	EPA 8270 by SIM	415945
50184499001	GP1 (0-2)	EPA 8260	416314		
50184499002	GP1 (12-14)	EPA 8260	416314		
50184499003	GP2 (0-2)	EPA 8260	416314		
50184499004	GP2 (4-6)	EPA 8260	416314		
50184499005	GP3 (0-2)	EPA 8260	416314		
50184499006	GP3 (12-14)	EPA 8260	416314		
50184499007	GP4 (0-2)	EPA 8260	416314		
50184499008	GP4 (4-6)	EPA 8260	416314		
50184499009	DUP-SL	EPA 8260	416314		
50184499010	TB-SL	EPA 8260	416314		
50184499001	GP1 (0-2)	SM 2540G	415590		
50184499002	GP1 (12-14)	SM 2540G	415590		
50184499003	GP2 (0-2)	SM 2540G	415590		
50184499004	GP2 (4-6)	SM 2540G	415590		
50184499005	GP3 (0-2)	SM 2540G	415590		
50184499006	GP3 (12-14)	SM 2540G	415590		
50184499007	GP4 (0-2)	SM 2540G	415590		
50184499008	GP4 (4-6)	SM 2540G	415590		
50184499009	DUP-SL	SM 2540G	415590		

REPORT OF LABORATORY ANALYSIS

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

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1 of 1

[illegible]

Sample Condition Upon Receipt

Pace Analytical

Project # 50184499Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ noPacking 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 ☐ Yes ☐ No ☒ N/A Samples iced, cooling process has begunCooler Temperature 1.3/1.3
(Initial/Corrected) Temp should be above freezing to 6°CIce Visible in Sample Containers: ☐ Yes ☒ No ☐ N/AIf Over 6°C, Was PM Notified? ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: <u>11/15/12 1800 RMP</u>		Comments	
Are samples from West Virginia? ☐ Yes ☒ No Document any containers out of temp.	1.		
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico) ☐ Yes ☒ No	2.		
Chain of Custody Present: ☐ Yes ☒ No	3.		
Chain of Custody Filled Out: ☒ Yes ☐ No	4.		
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	5. <u>TC - Bulk</u>		Date/Time 5035A T/C placed in Freezer: <u>11/15/12 1819</u> Short Holds Taken to Lab: _____
Rush Turn Around Time Requested: ☐ Yes ☒ No	6.		
Containers Intact: ☒ Yes ☐ No	7.		
Sample Labels match COC: -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID. ☐ Yes ☒ No	8. <u>GPI (0-2) All containers have time 1115</u> <u>GPI (12-14) All containers have time 1135</u>		
Were dissolved metals samples field filtered? ☐ Yes ☐ No ☒ N/A	9.		
All containers needing acid/base pres. have been checked? ☐ Yes ☐ No ☒ N/A 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.	10. (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc		
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	11.	Present	Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)	12.	Present	Absent
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	13.		
Headspace Wisconsin Sulfide ☐ Yes ☐ No ☒ N/A	14.		
Trip Blank Present: ☒ Yes ☐ No Custody Seals ☒ Yes ☐ No	15.	<u>TC dry blank</u>	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Sample Container Count

CLIENT: SNE

COC PAGE 1 of 1

COC ID#

Project #

5084499

Matrix SIMW/NAI
(Soil/Water/Non-
Aqueous Liquid)

SBS
SNE

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix SIMW/NAI (Soil/Water/Non- Aqueous Liquid)	pH <2 pH >9 pH >12
1						3										9	52	
2						1										3		
3						1										1		
4						1										1		
5						1										1		
6						1										1		
7						1										1		
8						1										1		
9						1										1		
10						1										1		
11						1										1		
12						1										1		

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	1liter 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		
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WG9U	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JG9U	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

December 20, 2017

Mr. Chris Shaw
SME
5835 W 74th Street
Indianapolis, IN 46278

RE: Project: Convention Center- Hotel Site
Pace Project No.: 50185017

Dear Mr. Shaw:

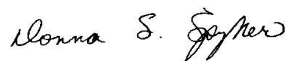
Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report; Modified 8260 list per customer request. dss

Revised Report; Modified 8260 and 8270 lists per customer request. dss

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 003971

Indiana Certification #: C-49-06

Kansas/NELAP Certification #:E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #:98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-17-11

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50185017001	SB01-GW	Water	11/21/17 08:15	11/21/17 14:25
50185017002	SB02-GW	Water	11/21/17 07:45	11/21/17 14:25
50185017003	SB03-GW	Water	11/21/17 11:45	11/21/17 14:25
50185017004	SB04-GW	Water	11/20/17 16:35	11/21/17 14:25
50185017005	SB05-GW	Water	11/20/17 16:05	11/21/17 14:25
50185017006	SB06-GW	Water	11/21/17 11:00	11/21/17 14:25
50185017007	SB07-GW	Water	11/21/17 09:15	11/21/17 14:25
50185017008	SB08-GW	Water	11/21/17 09:55	11/21/17 14:25
50185017009	SB09-GW	Water	11/20/17 15:15	11/21/17 14:25
50185017010	SB010-GW	Water	11/20/17 14:25	11/21/17 14:25
50185017011	SB011-GW	Water	11/20/17 13:40	11/21/17 14:25
50185017012	SB012-GW	Water	11/20/17 12:40	11/21/17 14:25
50185017013	SB013-GW	Water	11/20/17 12:05	11/21/17 14:25
50185017014	SB014-GW	Water	11/20/17 11:15	11/21/17 14:25
50185017015	SB015-GW	Water	11/20/17 10:20	11/21/17 14:25
50185017016	SB016-GW	Water	11/20/17 09:30	11/21/17 14:25
50185017017	SB017-GW	Water	11/20/17 08:30	11/21/17 14:25
50185017018	DUP-GW1	Water	11/21/17 08:00	11/21/17 14:25
50185017019	DUP-GW2	Water	11/21/17 08:00	11/21/17 14:25
50185017020	TB-5	Water	11/20/17 08:00	11/21/17 14:25

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SAMPLE ANALYTE COUNT

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50185017001	SB01-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	RSW	73	PASI-I
50185017002	SB02-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	RSW	73	PASI-I
50185017003	SB03-GW	EPA 5030/8260	RSW	75	PASI-I
50185017004	SB04-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	RSW	73	PASI-I
50185017005	SB05-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	RSW	73	PASI-I
50185017006	SB06-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	RSW	73	PASI-I
50185017007	SB07-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	RSW	73	PASI-I
50185017008	SB08-GW	EPA 5030/8260	RSW	75	PASI-I
50185017009	SB09-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	RSW	73	PASI-I
50185017010	SB010-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	RSW	73	PASI-I
50185017011	SB011-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50185017012	SB012-GW	EPA 8260	RSW	73	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
50185017013	SB013-GW	EPA 8260	RSW	73	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
50185017014	SB014-GW	EPA 8260	RSW	73	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
50185017015	SB015-GW	EPA 8260	RSW	73	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
50185017016	SB016-GW	EPA 8260	RSW	73	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
50185017017	SB017-GW	EPA 8260	RSW	73	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
50185017018	DUP-GW1	EPA 8260	RSW	73	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
50185017019	DUP-GW2	EPA 8260	RSW	73	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
50185017020	TB-5	EPA 8260	RSW	73	PASI-I
		EPA 5030/8260	RSW	75	PASI-I

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SUMMARY OF DETECTION

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50185017001	SB01-GW					
EPA 6010	Barium	112	ug/L	10.0	11/28/17 00:35	
EPA 6010	Chromium	10.1	ug/L	10.0	11/28/17 00:35	
EPA 8260	Methylene Chloride	8.6	ug/L	5.0	11/28/17 23:05	B,C9,M5
50185017002	SB02-GW					
EPA 6010	Barium	256	ug/L	10.0	11/28/17 00:38	
EPA 6010	Chromium	15.3	ug/L	10.0	11/28/17 00:38	
EPA 6010	Lead	12.5	ug/L	10.0	11/28/17 00:38	
EPA 8260	Methylene Chloride	15.4	ug/L	5.0	11/28/17 21:13	B,C9,CH,L1
50185017003	SB03-GW					
EPA 5030/8260	Benzene	30.8	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	n-Butylbenzene	19.9	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	sec-Butylbenzene	7.5	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	Ethylbenzene	94.0	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	n-Hexane	17.0	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	Isopropylbenzene (Cumene)	25.2	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	Methylene Chloride	10.7	ug/L	5.0	11/29/17 00:08	B,C9
EPA 5030/8260	1-Methylnaphthalene	18.1	ug/L	5.0	11/29/17 00:08	N2
EPA 5030/8260	2-Methylnaphthalene	19.9	ug/L	10.0	11/29/17 00:08	
EPA 5030/8260	Naphthalene	41.9	ug/L	1.7	11/29/17 00:08	
EPA 5030/8260	n-Propylbenzene	71.6	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	Toluene	8.1	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	1,2,4-Trimethylbenzene	454	ug/L	50.0	11/30/17 11:19	
EPA 5030/8260	1,3,5-Trimethylbenzene	6.3	ug/L	5.0	11/29/17 00:08	
EPA 5030/8260	Xylene (Total)	151	ug/L	10.0	11/29/17 00:08	
50185017004	SB04-GW					
EPA 6010	Barium	229	ug/L	10.0	11/28/17 00:40	
EPA 6010	Chromium	10.8	ug/L	10.0	11/28/17 00:40	
EPA 8260	Methylene Chloride	9.6	ug/L	5.0	11/28/17 22:49	B,C9,CH,L1
50185017005	SB05-GW					
EPA 6010	Arsenic	15.8	ug/L	10.0	11/28/17 00:55	
EPA 6010	Barium	305	ug/L	10.0	11/28/17 00:55	
EPA 8260	Methylene Chloride	23.8	ug/L	5.0	11/28/17 23:20	B,C9,CH,L1
50185017006	SB06-GW					
EPA 6010	Arsenic	64.6	ug/L	10.0	11/28/17 00:57	
EPA 6010	Barium	268	ug/L	10.0	11/28/17 00:57	
EPA 8260	Methylene Chloride	9.4	ug/L	5.0	11/29/17 19:53	B,C9,CH,M5
EPA 8260	Methyl-tert-butyl ether	5.6	ug/L	4.0	11/29/17 19:53	M5
50185017007	SB07-GW					
EPA 6010	Arsenic	54.4	ug/L	10.0	11/28/17 01:00	
EPA 6010	Barium	245	ug/L	10.0	11/28/17 01:00	
EPA 8260	Methylene Chloride	5.8	ug/L	5.0	11/29/17 02:48	B,C9
50185017008	SB08-GW					
EPA 5030/8260	Methylene Chloride	8.6	ug/L	5.0	11/29/17 20:41	B,C9,L1,M5

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50185017009	SB09-GW					
EPA 6010	Barium	267	ug/L	10.0	11/28/17 01:02	
50185017010	SB010-GW					
EPA 6010	Arsenic	16.5	ug/L	10.0	11/28/17 01:04	
EPA 6010	Barium	235	ug/L	10.0	11/28/17 01:04	
EPA 8260	cis-1,2-Dichloroethene	436	ug/L	50.0	11/30/17 11:51	
EPA 8260	Methylene Chloride	7.5	ug/L	5.0	11/29/17 03:51	B,C9
EPA 8260	Vinyl chloride	9.5	ug/L	2.0	11/29/17 03:51	
50185017011	SB011-GW					
EPA 6010	Barium	220	ug/L	10.0	11/28/17 01:07	
EPA 8260	cis-1,2-Dichloroethene	170	ug/L	5.0	11/29/17 04:23	
EPA 8260	Methylene Chloride	7.0	ug/L	5.0	11/29/17 04:23	B,C9
EPA 8260	Vinyl chloride	8.9	ug/L	2.0	11/29/17 04:23	
50185017012	SB012-GW					
EPA 6010	Barium	202	ug/L	10.0	11/28/17 01:09	
EPA 8260	cis-1,2-Dichloroethene	22.6	ug/L	5.0	11/29/17 04:55	
EPA 8260	Methylene Chloride	7.8	ug/L	5.0	11/29/17 04:55	B,C9
50185017013	SB013-GW					
EPA 6010	Barium	265	ug/L	10.0	11/28/17 01:11	
EPA 8260	Methylene Chloride	6.9	ug/L	5.0	11/29/17 05:27	B,C9
50185017014	SB014-GW					
EPA 6010	Barium	238	ug/L	10.0	11/28/17 01:18	
EPA 8260	Methylene Chloride	5.2	ug/L	5.0	11/29/17 05:59	B,C9
50185017015	SB015-GW					
EPA 6010	Barium	122	ug/L	10.0	11/28/17 01:20	
EPA 6010	Selenium	32.5	ug/L	10.0	11/28/17 01:20	
EPA 8260	cis-1,2-Dichloroethene	13.1	ug/L	5.0	11/29/17 06:31	
EPA 8260	Tetrachloroethene	260	ug/L	5.0	11/29/17 06:31	M1
EPA 8260	Trichloroethene	12.3	ug/L	5.0	11/29/17 06:31	
50185017016	SB016-GW					
EPA 6010	Arsenic	13.7	ug/L	10.0	11/28/17 01:22	
EPA 6010	Barium	229	ug/L	10.0	11/28/17 01:22	
EPA 6010	Cadmium	2.2	ug/L	2.0	11/28/17 01:22	
EPA 6010	Chromium	14.7	ug/L	10.0	11/28/17 01:22	
EPA 8260	cis-1,2-Dichloroethene	69.4	ug/L	5.0	11/29/17 08:06	
EPA 8260	Methylene Chloride	6.8	ug/L	5.0	11/29/17 08:06	B,C9
EPA 8260	Tetrachloroethene	9.8	ug/L	5.0	11/29/17 08:06	
EPA 8260	Vinyl chloride	11.3	ug/L	2.0	11/29/17 08:06	
50185017017	SB017-GW					
EPA 6010	Barium	53.9	ug/L	10.0	11/28/17 01:25	
EPA 8260	Methylene Chloride	8.8	ug/L	5.0	11/29/17 08:38	B,C9
50185017018	DUP-GW1					
EPA 6010	Arsenic	52.0	ug/L	10.0	11/28/17 01:27	

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SUMMARY OF DETECTION

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50185017018	DUP-GW1					
EPA 6010	Barium	243	ug/L	10.0	11/28/17 01:27	
50185017019	DUP-GW2					
EPA 6010	Arsenic	63.1	ug/L	10.0	11/28/17 01:29	
EPA 6010	Barium	272	ug/L	10.0	11/28/17 01:29	
EPA 8260	Methyl-tert-butyl ether	4.9	ug/L	4.0	11/30/17 10:47	M5
50185017020	TB-5					
EPA 5030/8260	Methylene Chloride	9.3	ug/L	5.0	11/29/17 21:12	B,C9,L1,M5

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB01-GW		Lab ID: 50185017001		Collected: 11/21/17 08:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:35	7440-38-2		
Barium	112	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:35	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 00:35	7440-43-9		
Chromium	10.1	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:35	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:35	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:35	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:35	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 11:37	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:41	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:41	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:41	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:41	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:41	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:41	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:41	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:41	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 19:41	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:41	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:41	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:41	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:41	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:41	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:41	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:41	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:41	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	55	%.	15-87	1	11/22/17 11:25	11/27/17 19:41	321-60-8		
p-Terphenyl-d14 (S)	55	%.	10-116	1	11/22/17 11:25	11/27/17 19:41	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/28/17 23:05	67-64-1	M5	
Acrolein	ND	ug/L	50.0	1		11/28/17 23:05	107-02-8	M5	
Acrylonitrile	ND	ug/L	100	1		11/28/17 23:05	107-13-1	M5	
Benzene	ND	ug/L	5.0	1		11/28/17 23:05	71-43-2	M5	
Bromobenzene	ND	ug/L	5.0	1		11/28/17 23:05	108-86-1	M5	
Bromochloromethane	ND	ug/L	5.0	1		11/28/17 23:05	74-97-5	M5	
Bromodichloromethane	ND	ug/L	5.0	1		11/28/17 23:05	75-27-4	M5	
Bromoform	ND	ug/L	5.0	1		11/28/17 23:05	75-25-2	M5	
Bromomethane	ND	ug/L	5.0	1		11/28/17 23:05	74-83-9	M5	
2-Butanone (MEK)	ND	ug/L	25.0	1		11/28/17 23:05	78-93-3	M5	
n-Butylbenzene	ND	ug/L	5.0	1		11/28/17 23:05	104-51-8	M5	
sec-Butylbenzene	ND	ug/L	5.0	1		11/28/17 23:05	135-98-8	M5	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB01-GW		Lab ID: 50185017001	Collected: 11/21/17 08:15	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/28/17 23:05	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		11/28/17 23:05	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/17 23:05	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		11/28/17 23:05	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		11/28/17 23:05	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		11/28/17 23:05	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		11/28/17 23:05	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 23:05	95-49-8	M5
4-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 23:05	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		11/28/17 23:05	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/28/17 23:05	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		11/28/17 23:05	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:05	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:05	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:05	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/28/17 23:05	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/28/17 23:05	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		11/28/17 23:05	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		11/28/17 23:05	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/17 23:05	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 23:05	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 23:05	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 23:05	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		11/28/17 23:05	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 23:05	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		11/28/17 23:05	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 23:05	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 23:05	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1		11/28/17 23:05	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		11/28/17 23:05	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/28/17 23:05	87-68-3	M5
n-Hexane	ND	ug/L	5.0	1		11/28/17 23:05	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		11/28/17 23:05	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		11/28/17 23:05	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/28/17 23:05	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	5.0	1		11/28/17 23:05	99-87-6	M5
Methylene Chloride	8.6	ug/L	5.0	1		11/28/17 23:05	75-09-2	B,C9,M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/28/17 23:05	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/28/17 23:05	1634-04-4	M5
Naphthalene	ND	ug/L	5.0	1		11/28/17 23:05	91-20-3	M5
n-Propylbenzene	ND	ug/L	5.0	1		11/28/17 23:05	103-65-1	M5
Styrene	ND	ug/L	5.0	1		11/28/17 23:05	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 23:05	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 23:05	79-34-5	M5
Tetrachloroethene	ND	ug/L	5.0	1		11/28/17 23:05	127-18-4	M5
Toluene	ND	ug/L	5.0	1		11/28/17 23:05	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:05	87-61-6	M5

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB01-GW		Lab ID: 50185017001		Collected: 11/21/17 08:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:05	120-82-1	M5	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/17 23:05	71-55-6	M5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/28/17 23:05	79-00-5	M5	
Trichloroethene	ND	ug/L	5.0	1		11/28/17 23:05	79-01-6	M5	
Trichlorofluoromethane	ND	ug/L	5.0	1		11/28/17 23:05	75-69-4	M5	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/28/17 23:05	96-18-4	M5	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 23:05	95-63-6	M5	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 23:05	108-67-8	M5	
Vinyl acetate	ND	ug/L	50.0	1		11/28/17 23:05	108-05-4	M5	
Vinyl chloride	ND	ug/L	2.0	1		11/28/17 23:05	75-01-4	M5	
Xylene (Total)	ND	ug/L	10.0	1		11/28/17 23:05	1330-20-7	M5	
Surrogates									
Dibromofluoromethane (S)	101	%.	86-116	1		11/28/17 23:05	1868-53-7	M5	
4-Bromofluorobenzene (S)	94	%.	84-113	1		11/28/17 23:05	460-00-4	M5	
Toluene-d8 (S)	98	%.	86-111	1		11/28/17 23:05	2037-26-5	M5	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB02-GW		Lab ID: 50185017002		Collected: 11/21/17 07:45		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:38	7440-38-2		
Barium	256	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:38	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 00:38	7440-43-9		
Chromium	15.3	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:38	7440-47-3		
Lead	12.5	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:38	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:38	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:38	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 11:50	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:53	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:53	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:53	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:53	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:53	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:53	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:53	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:53	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 19:53	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:53	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:53	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:53	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:53	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:53	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:53	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:53	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:53	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	55	%.	15-87	1	11/22/17 11:25	11/27/17 19:53	321-60-8		
p-Terphenyl-d14 (S)	57	%.	10-116	1	11/22/17 11:25	11/27/17 19:53	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/28/17 21:13	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/28/17 21:13	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/28/17 21:13	107-13-1		
Benzene	ND	ug/L	5.0	1		11/28/17 21:13	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/28/17 21:13	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/28/17 21:13	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/28/17 21:13	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/28/17 21:13	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/28/17 21:13	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/28/17 21:13	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/28/17 21:13	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/28/17 21:13	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB02-GW		Lab ID: 50185017002	Collected: 11/21/17 07:45	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/28/17 21:13	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/28/17 21:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/17 21:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/28/17 21:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/28/17 21:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/28/17 21:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/28/17 21:13	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 21:13	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 21:13	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/28/17 21:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/28/17 21:13	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/28/17 21:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 21:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 21:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 21:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/28/17 21:13	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/28/17 21:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/28/17 21:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/28/17 21:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/17 21:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 21:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 21:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 21:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/28/17 21:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 21:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/28/17 21:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 21:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 21:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/28/17 21:13	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/28/17 21:13	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/28/17 21:13	87-68-3	R1
n-Hexane	ND	ug/L	5.0	1		11/28/17 21:13	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/28/17 21:13	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/28/17 21:13	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/28/17 21:13	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/28/17 21:13	99-87-6	
Methylene Chloride	15.4	ug/L	5.0	1		11/28/17 21:13	75-09-2	B,C9, CH,L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/28/17 21:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/28/17 21:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/28/17 21:13	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/28/17 21:13	103-65-1	
Styrene	ND	ug/L	5.0	1		11/28/17 21:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 21:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 21:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/28/17 21:13	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/17 21:13	108-88-3	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB02-GW		Lab ID: 50185017002		Collected: 11/21/17 07:45		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 21:13	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 21:13	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/17 21:13	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/28/17 21:13	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/28/17 21:13	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/28/17 21:13	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/28/17 21:13	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 21:13	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 21:13	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/28/17 21:13	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/28/17 21:13	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/28/17 21:13	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	95	%.	86-116	1		11/28/17 21:13	1868-53-7		
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/28/17 21:13	460-00-4		
Toluene-d8 (S)	96	%.	86-111	1		11/28/17 21:13	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB03-GW		Lab ID: 50185017003	Collected: 11/21/17 11:45	Received: 11/21/17 14:25	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		11/29/17 00:08	67-64-1	
Acrolein	ND	ug/L	50.0	1		11/29/17 00:08	107-02-8	
Acrylonitrile	ND	ug/L	100	1		11/29/17 00:08	107-13-1	
Benzene	30.8	ug/L	5.0	1		11/29/17 00:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		11/29/17 00:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 00:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 00:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/29/17 00:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/29/17 00:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 00:08	78-93-3	
n-Butylbenzene	19.9	ug/L	5.0	1		11/29/17 00:08	104-51-8	
sec-Butylbenzene	7.5	ug/L	5.0	1		11/29/17 00:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 00:08	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 00:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 00:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 00:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 00:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 00:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 00:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 00:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 00:08	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 00:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 00:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 00:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 00:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 00:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 00:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 00:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 00:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 00:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 00:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 00:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 00:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 00:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 00:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 00:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 00:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 00:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 00:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 00:08	10061-02-6	
Ethylbenzene	94.0	ug/L	5.0	1		11/29/17 00:08	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 00:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 00:08	87-68-3	
n-Hexane	17.0	ug/L	5.0	1		11/29/17 00:08	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 00:08	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 00:08	74-88-4	
Isopropylbenzene (Cumene)	25.2	ug/L	5.0	1		11/29/17 00:08	98-82-8	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB03-GW		Lab ID: 50185017003		Collected: 11/21/17 11:45		Received: 11/21/17 14:25		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		11/29/17 00:08	99-87-6		
Methylene Chloride	10.7	ug/L	5.0	1		11/29/17 00:08	75-09-2	B,C9	
1-Methylnaphthalene	18.1	ug/L	5.0	1		11/29/17 00:08	90-12-0	N2	
2-Methylnaphthalene	19.9	ug/L	10.0	1		11/29/17 00:08	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 00:08	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 00:08	1634-04-4		
Naphthalene	41.9	ug/L	1.7	1		11/29/17 00:08	91-20-3		
n-Propylbenzene	71.6	ug/L	5.0	1		11/29/17 00:08	103-65-1		
Styrene	ND	ug/L	5.0	1		11/29/17 00:08	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 00:08	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 00:08	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 00:08	127-18-4		
Toluene	8.1	ug/L	5.0	1		11/29/17 00:08	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 00:08	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 00:08	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 00:08	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 00:08	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 00:08	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 00:08	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 00:08	96-18-4		
1,2,4-Trimethylbenzene	454	ug/L	50.0	10		11/30/17 11:19	95-63-6		
1,3,5-Trimethylbenzene	6.3	ug/L	5.0	1		11/29/17 00:08	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 00:08	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 00:08	75-01-4		
Xylene (Total)	151	ug/L	10.0	1		11/29/17 00:08	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	92	%.	86-116	1		11/29/17 00:08	1868-53-7		
4-Bromofluorobenzene (S)	101	%.	84-113	1		11/29/17 00:08	460-00-4		
Toluene-d8 (S)	102	%.	86-111	1		11/29/17 00:08	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB04-GW		Lab ID: 50185017004		Collected: 11/20/17 16:35		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:40	7440-38-2		
Barium	229	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:40	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 00:40	7440-43-9		
Chromium	10.8	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:40	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:40	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:40	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:40	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 11:52	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:04	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:04	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:04	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:04	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:04	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:04	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:04	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:04	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 20:04	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:04	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:04	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:04	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:04	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:04	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:04	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:04	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:04	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	56	%.	15-87	1	11/22/17 11:25	11/27/17 20:04	321-60-8		
p-Terphenyl-d14 (S)	61	%.	10-116	1	11/22/17 11:25	11/27/17 20:04	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/28/17 22:49	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/28/17 22:49	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/28/17 22:49	107-13-1		
Benzene	ND	ug/L	5.0	1		11/28/17 22:49	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/28/17 22:49	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/28/17 22:49	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/28/17 22:49	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/28/17 22:49	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/28/17 22:49	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/28/17 22:49	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/28/17 22:49	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/28/17 22:49	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB04-GW		Lab ID: 50185017004		Collected: 11/20/17 16:35		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
tert-Butylbenzene	ND	ug/L	5.0	1		11/28/17 22:49	98-06-6	B,C9, CH,L1	
Carbon disulfide	ND	ug/L	10.0	1		11/28/17 22:49	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/17 22:49	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		11/28/17 22:49	108-90-7		
Chloroethane	ND	ug/L	5.0	1		11/28/17 22:49	75-00-3		
Chloroform	ND	ug/L	5.0	1		11/28/17 22:49	67-66-3		
Chloromethane	ND	ug/L	5.0	1		11/28/17 22:49	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 22:49	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 22:49	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		11/28/17 22:49	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/28/17 22:49	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		11/28/17 22:49	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 22:49	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 22:49	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 22:49	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/28/17 22:49	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/28/17 22:49	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		11/28/17 22:49	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		11/28/17 22:49	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/17 22:49	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 22:49	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 22:49	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 22:49	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		11/28/17 22:49	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 22:49	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		11/28/17 22:49	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 22:49	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 22:49	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		11/28/17 22:49	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		11/28/17 22:49	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/28/17 22:49	87-68-3		
n-Hexane	ND	ug/L	5.0	1		11/28/17 22:49	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		11/28/17 22:49	591-78-6		
Iodomethane	ND	ug/L	10.0	1		11/28/17 22:49	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/28/17 22:49	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		11/28/17 22:49	99-87-6		
Methylene Chloride	9.6	ug/L	5.0	1		11/28/17 22:49	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/28/17 22:49	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/28/17 22:49	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		11/28/17 22:49	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		11/28/17 22:49	103-65-1		
Styrene	ND	ug/L	5.0	1		11/28/17 22:49	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 22:49	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 22:49	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		11/28/17 22:49	127-18-4		
Toluene	ND	ug/L	5.0	1		11/28/17 22:49	108-88-3		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB04-GW		Lab ID: 50185017004		Collected: 11/20/17 16:35		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 22:49	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 22:49	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/17 22:49	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/28/17 22:49	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/28/17 22:49	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/28/17 22:49	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/28/17 22:49	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 22:49	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 22:49	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/28/17 22:49	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/28/17 22:49	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/28/17 22:49	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	94	%.	86-116	1		11/28/17 22:49	1868-53-7		
4-Bromofluorobenzene (S)	99	%.	84-113	1		11/28/17 22:49	460-00-4		
Toluene-d8 (S)	98	%.	86-111	1		11/28/17 22:49	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB05-GW		Lab ID: 50185017005		Collected: 11/20/17 16:05		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	15.8	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:55	7440-38-2		
Barium	305	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:55	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 00:55	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:55	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:55	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:55	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:55	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 11:55	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.1	1	11/22/17 11:25	11/27/17 20:16	83-32-9		
Acenaphthylene	ND	ug/L	1.1	1	11/22/17 11:25	11/27/17 20:16	208-96-8		
Anthracene	ND	ug/L	0.11	1	11/22/17 11:25	11/27/17 20:16	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.11	1	11/22/17 11:25	11/27/17 20:16	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.11	1	11/22/17 11:25	11/27/17 20:16	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.11	1	11/22/17 11:25	11/27/17 20:16	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	11/22/17 11:25	11/27/17 20:16	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.11	1	11/22/17 11:25	11/27/17 20:16	207-08-9		
Chrysene	ND	ug/L	0.55	1	11/22/17 11:25	11/27/17 20:16	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	11/22/17 11:25	11/27/17 20:16	53-70-3		
Fluoranthene	ND	ug/L	1.1	1	11/22/17 11:25	11/27/17 20:16	206-44-0		
Fluorene	ND	ug/L	1.1	1	11/22/17 11:25	11/27/17 20:16	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	11/22/17 11:25	11/27/17 20:16	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.1	1	11/22/17 11:25	11/27/17 20:16	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.1	1	11/22/17 11:25	11/27/17 20:16	91-57-6		
Phenanthrene	ND	ug/L	1.1	1	11/22/17 11:25	11/27/17 20:16	85-01-8		
Pyrene	ND	ug/L	1.1	1	11/22/17 11:25	11/27/17 20:16	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	53	%.	15-87	1	11/22/17 11:25	11/27/17 20:16	321-60-8		
p-Terphenyl-d14 (S)	55	%.	10-116	1	11/22/17 11:25	11/27/17 20:16	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/28/17 23:20	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/28/17 23:20	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/28/17 23:20	107-13-1		
Benzene	ND	ug/L	5.0	1		11/28/17 23:20	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/28/17 23:20	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/28/17 23:20	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/28/17 23:20	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/28/17 23:20	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/28/17 23:20	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/28/17 23:20	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/28/17 23:20	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/28/17 23:20	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB05-GW		Lab ID: 50185017005	Collected: 11/20/17 16:05	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/28/17 23:20	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/28/17 23:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/17 23:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/28/17 23:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/28/17 23:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/28/17 23:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/28/17 23:20	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 23:20	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 23:20	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/28/17 23:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/28/17 23:20	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/28/17 23:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/28/17 23:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/28/17 23:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/28/17 23:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/28/17 23:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/17 23:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 23:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 23:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 23:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/28/17 23:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 23:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/28/17 23:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 23:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 23:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/28/17 23:20	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/28/17 23:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/28/17 23:20	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/28/17 23:20	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/28/17 23:20	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/28/17 23:20	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/28/17 23:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/28/17 23:20	99-87-6	
Methylene Chloride	23.8	ug/L	5.0	1		11/28/17 23:20	75-09-2	B,C9, CH,L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/28/17 23:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/28/17 23:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/28/17 23:20	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/28/17 23:20	103-65-1	
Styrene	ND	ug/L	5.0	1		11/28/17 23:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 23:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 23:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/28/17 23:20	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/17 23:20	108-88-3	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB05-GW		Lab ID: 50185017005		Collected: 11/20/17 16:05		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:20	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 23:20	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/17 23:20	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/28/17 23:20	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/28/17 23:20	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/28/17 23:20	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/28/17 23:20	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 23:20	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 23:20	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/28/17 23:20	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/28/17 23:20	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/28/17 23:20	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	97	%.	86-116	1		11/28/17 23:20	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/28/17 23:20	460-00-4		
Toluene-d8 (S)	98	%.	86-111	1		11/28/17 23:20	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB06-GW		Lab ID: 50185017006		Collected: 11/21/17 11:00		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	64.6	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:57	7440-38-2		
Barium	268	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:57	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 00:57	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:57	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:57	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:57	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 00:57	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 11:57	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:27	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:27	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:27	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:27	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:27	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:27	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:27	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:27	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 20:27	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:27	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:27	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:27	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:27	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:27	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:27	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:27	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:27	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	58	%.	15-87	1	11/22/17 11:25	11/27/17 20:27	321-60-8		
p-Terphenyl-d14 (S)	65	%.	10-116	1	11/22/17 11:25	11/27/17 20:27	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 19:53	67-64-1	M5	
Acrolein	ND	ug/L	50.0	1		11/29/17 19:53	107-02-8	M5	
Acrylonitrile	ND	ug/L	100	1		11/29/17 19:53	107-13-1	M5	
Benzene	ND	ug/L	5.0	1		11/29/17 19:53	71-43-2	M5	
Bromobenzene	ND	ug/L	5.0	1		11/29/17 19:53	108-86-1	M5	
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 19:53	74-97-5	M5	
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 19:53	75-27-4	M5	
Bromoform	ND	ug/L	5.0	1		11/29/17 19:53	75-25-2	M5	
Bromomethane	ND	ug/L	5.0	1		11/29/17 19:53	74-83-9	M5	
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 19:53	78-93-3	M5	
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 19:53	104-51-8	M5	
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 19:53	135-98-8	M5	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB06-GW		Lab ID: 50185017006	Collected: 11/21/17 11:00	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 19:53	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 19:53	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 19:53	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 19:53	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		11/29/17 19:53	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		11/29/17 19:53	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		11/29/17 19:53	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 19:53	95-49-8	M5
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 19:53	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 19:53	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 19:53	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		11/29/17 19:53	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 19:53	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 19:53	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 19:53	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 19:53	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 19:53	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 19:53	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 19:53	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 19:53	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 19:53	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 19:53	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 19:53	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 19:53	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 19:53	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 19:53	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 19:53	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 19:53	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 19:53	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 19:53	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 19:53	87-68-3	M5
n-Hexane	ND	ug/L	5.0	1		11/29/17 19:53	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		11/29/17 19:53	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		11/29/17 19:53	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 19:53	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 19:53	99-87-6	M5
Methylene Chloride	9.4	ug/L	5.0	1		11/29/17 19:53	75-09-2	B,C9, CH,M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 19:53	108-10-1	M5
Methyl-tert-butyl ether	5.6	ug/L	4.0	1		11/29/17 19:53	1634-04-4	M5
Naphthalene	ND	ug/L	5.0	1		11/29/17 19:53	91-20-3	M5
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 19:53	103-65-1	M5
Styrene	ND	ug/L	5.0	1		11/29/17 19:53	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 19:53	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 19:53	79-34-5	M5
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 19:53	127-18-4	M5
Toluene	ND	ug/L	5.0	1		11/29/17 19:53	108-88-3	M5

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB06-GW		Lab ID: 50185017006		Collected: 11/21/17 11:00		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 19:53	87-61-6	M5	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 19:53	120-82-1	M5	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 19:53	71-55-6	M5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 19:53	79-00-5	M5	
Trichloroethene	ND	ug/L	5.0	1		11/29/17 19:53	79-01-6	M5	
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 19:53	75-69-4	M5	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 19:53	96-18-4	M5	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 19:53	95-63-6	M5	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 19:53	108-67-8	M5	
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 19:53	108-05-4	M5	
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 19:53	75-01-4	M5	
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 19:53	1330-20-7	M5	
Surrogates									
Dibromofluoromethane (S)	98	%.	86-116	1		11/29/17 19:53	1868-53-7	M5	
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/29/17 19:53	460-00-4	M5	
Toluene-d8 (S)	98	%.	86-111	1		11/29/17 19:53	2037-26-5	M5	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB07-GW		Lab ID: 50185017007		Collected: 11/21/17 09:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	54.4	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:00	7440-38-2		
Barium	245	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:00	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:00	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:00	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:00	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:00	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:00	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:00	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:39	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:39	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:39	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:39	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:39	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:39	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:39	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:39	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 20:39	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:39	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:39	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:39	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:39	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:39	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:39	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:39	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:39	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	54	%	15-87	1	11/22/17 11:25	11/27/17 20:39	321-60-8		
p-Terphenyl-d14 (S)	52	%	10-116	1	11/22/17 11:25	11/27/17 20:39	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 02:48	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 02:48	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 02:48	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 02:48	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 02:48	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 02:48	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 02:48	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 02:48	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 02:48	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 02:48	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 02:48	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 02:48	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB07-GW		Lab ID: 50185017007	Collected: 11/21/17 09:15	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 02:48	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 02:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 02:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 02:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 02:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 02:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 02:48	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 02:48	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 02:48	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 02:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 02:48	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 02:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 02:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 02:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 02:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 02:48	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 02:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 02:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 02:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 02:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 02:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 02:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 02:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 02:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 02:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 02:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 02:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 02:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 02:48	100-41-4	L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 02:48	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 02:48	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/29/17 02:48	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 02:48	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 02:48	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 02:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 02:48	99-87-6	
Methylene Chloride	5.8	ug/L	5.0	1		11/29/17 02:48	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 02:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 02:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/29/17 02:48	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 02:48	103-65-1	
Styrene	ND	ug/L	5.0	1		11/29/17 02:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 02:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 02:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 02:48	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/17 02:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 02:48	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB07-GW		Lab ID: 50185017007		Collected: 11/21/17 09:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 02:48	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 02:48	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 02:48	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 02:48	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 02:48	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 02:48	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 02:48	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 02:48	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 02:48	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 02:48	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 02:48	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	100	%.	86-116	1		11/29/17 02:48	1868-53-7		
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/29/17 02:48	460-00-4		
Toluene-d8 (S)	99	%.	86-111	1		11/29/17 02:48	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB08-GW		Lab ID: 50185017008	Collected: 11/21/17 09:55	Received: 11/21/17 14:25	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		11/29/17 20:41	67-64-1	M5
Acrolein	ND	ug/L	50.0	1		11/29/17 20:41	107-02-8	M5
Acrylonitrile	ND	ug/L	100	1		11/29/17 20:41	107-13-1	M5
Benzene	ND	ug/L	5.0	1		11/29/17 20:41	71-43-2	M5
Bromobenzene	ND	ug/L	5.0	1		11/29/17 20:41	108-86-1	M5
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 20:41	74-97-5	M5
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 20:41	75-27-4	M5
Bromoform	ND	ug/L	5.0	1		11/29/17 20:41	75-25-2	M5
Bromomethane	ND	ug/L	5.0	1		11/29/17 20:41	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 20:41	78-93-3	M5
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 20:41	104-51-8	M5
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 20:41	135-98-8	M5
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 20:41	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 20:41	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 20:41	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 20:41	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		11/29/17 20:41	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		11/29/17 20:41	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		11/29/17 20:41	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 20:41	95-49-8	M5
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 20:41	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 20:41	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 20:41	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		11/29/17 20:41	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 20:41	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 20:41	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 20:41	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 20:41	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 20:41	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 20:41	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 20:41	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 20:41	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 20:41	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 20:41	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 20:41	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 20:41	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 20:41	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 20:41	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 20:41	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 20:41	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 20:41	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 20:41	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 20:41	87-68-3	M5
n-Hexane	ND	ug/L	5.0	1		11/29/17 20:41	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		11/29/17 20:41	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		11/29/17 20:41	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 20:41	98-82-8	M5

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB08-GW		Lab ID: 50185017008	Collected: 11/21/17 09:55	Received: 11/21/17 14:25	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		11/29/17 20:41	99-87-6	M5
Methylene Chloride	8.6	ug/L	5.0	1		11/29/17 20:41	75-09-2	B,C9,L1, M5
1-Methylnaphthalene	ND	ug/L	5.0	1		11/29/17 20:41	90-12-0	M5,N2
2-Methylnaphthalene	ND	ug/L	10.0	1		11/29/17 20:41	91-57-6	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 20:41	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 20:41	1634-04-4	M5
Naphthalene	ND	ug/L	1.7	1		11/29/17 20:41	91-20-3	M5
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 20:41	103-65-1	M5
Styrene	ND	ug/L	5.0	1		11/29/17 20:41	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 20:41	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 20:41	79-34-5	M5
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 20:41	127-18-4	M5
Toluene	ND	ug/L	5.0	1		11/29/17 20:41	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 20:41	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 20:41	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 20:41	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 20:41	79-00-5	M5
Trichloroethene	ND	ug/L	5.0	1		11/29/17 20:41	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 20:41	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 20:41	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 20:41	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 20:41	108-67-8	M5
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 20:41	108-05-4	M5
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 20:41	75-01-4	M5
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 20:41	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	100	%.	86-116	1		11/29/17 20:41	1868-53-7	M5
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/29/17 20:41	460-00-4	M5
Toluene-d8 (S)	98	%.	86-111	1		11/29/17 20:41	2037-26-5	M5

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB09-GW		Lab ID: 50185017009		Collected: 11/20/17 15:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:02	7440-38-2		
Barium	267	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:02	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:02	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:02	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:02	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:02	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:02	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:02	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:50	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:50	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:50	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:50	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:50	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:50	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:50	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:50	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 20:50	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:50	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:50	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:50	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 20:50	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:50	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:50	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:50	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 20:50	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	56	%	15-87	1	11/22/17 11:25	11/27/17 20:50	321-60-8		
p-Terphenyl-d14 (S)	55	%	10-116	1	11/22/17 11:25	11/27/17 20:50	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 03:19	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 03:19	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 03:19	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 03:19	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 03:19	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 03:19	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 03:19	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 03:19	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 03:19	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 03:19	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 03:19	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 03:19	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB09-GW		Lab ID: 50185017009		Collected: 11/20/17 15:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 03:19	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 03:19	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 03:19	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 03:19	108-90-7		
Chloroethane	ND	ug/L	5.0	1		11/29/17 03:19	75-00-3		
Chloroform	ND	ug/L	5.0	1		11/29/17 03:19	67-66-3		
Chloromethane	ND	ug/L	5.0	1		11/29/17 03:19	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 03:19	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 03:19	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 03:19	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 03:19	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		11/29/17 03:19	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:19	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:19	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:19	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 03:19	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 03:19	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 03:19	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 03:19	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 03:19	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 03:19	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 03:19	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 03:19	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 03:19	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 03:19	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 03:19	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 03:19	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 03:19	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 03:19	100-41-4	L2	
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 03:19	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 03:19	87-68-3		
n-Hexane	ND	ug/L	5.0	1		11/29/17 03:19	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		11/29/17 03:19	591-78-6		
Iodomethane	ND	ug/L	10.0	1		11/29/17 03:19	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 03:19	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 03:19	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		11/29/17 03:19	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 03:19	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 03:19	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		11/29/17 03:19	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 03:19	103-65-1		
Styrene	ND	ug/L	5.0	1		11/29/17 03:19	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 03:19	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 03:19	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 03:19	127-18-4		
Toluene	ND	ug/L	5.0	1		11/29/17 03:19	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:19	87-61-6		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB09-GW		Lab ID: 50185017009		Collected: 11/20/17 15:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:19	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 03:19	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 03:19	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 03:19	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 03:19	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 03:19	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 03:19	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 03:19	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 03:19	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 03:19	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 03:19	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	102	%.	86-116	1		11/29/17 03:19	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/29/17 03:19	460-00-4		
Toluene-d8 (S)	97	%.	86-111	1		11/29/17 03:19	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB010-GW		Lab ID: 50185017010		Collected: 11/20/17 14:25		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	16.5	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:04	7440-38-2		
Barium	235	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:04	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:04	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:04	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:04	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:04	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:04	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:04	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:01	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:01	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:01	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:01	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:01	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:01	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:01	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:01	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 21:01	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:01	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:01	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:01	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:01	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:01	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:01	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:01	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:01	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	54	%.	15-87	1	11/22/17 11:25	11/27/17 21:01	321-60-8		
p-Terphenyl-d14 (S)	54	%.	10-116	1	11/22/17 11:25	11/27/17 21:01	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 03:51	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 03:51	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 03:51	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 03:51	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 03:51	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 03:51	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 03:51	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 03:51	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 03:51	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 03:51	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 03:51	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 03:51	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB010-GW		Lab ID: 50185017010	Collected: 11/20/17 14:25	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 03:51	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 03:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 03:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 03:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 03:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 03:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 03:51	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 03:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 03:51	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 03:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 03:51	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 03:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 03:51	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 03:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 03:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 03:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 03:51	75-35-4	
cis-1,2-Dichloroethene	436	ug/L	50.0	10		11/30/17 11:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 03:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 03:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 03:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 03:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 03:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 03:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 03:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 03:51	100-41-4	L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 03:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 03:51	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/29/17 03:51	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 03:51	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 03:51	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 03:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 03:51	99-87-6	
Methylene Chloride	7.5	ug/L	5.0	1		11/29/17 03:51	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 03:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 03:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/29/17 03:51	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 03:51	103-65-1	
Styrene	ND	ug/L	5.0	1		11/29/17 03:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 03:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 03:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 03:51	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/17 03:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:51	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB010-GW		Lab ID: 50185017010		Collected: 11/20/17 14:25		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 03:51	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 03:51	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 03:51	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 03:51	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 03:51	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 03:51	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 03:51	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 03:51	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 03:51	108-05-4		
Vinyl chloride	9.5	ug/L	2.0	1		11/29/17 03:51	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 03:51	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	99	%.	86-116	1		11/29/17 03:51	1868-53-7		
4-Bromofluorobenzene (S)	101	%.	84-113	1		11/29/17 03:51	460-00-4		
Toluene-d8 (S)	99	%.	86-111	1		11/29/17 03:51	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB011-GW		Lab ID: 50185017011		Collected: 11/20/17 13:40		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:07	7440-38-2		
Barium	220	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:07	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:07	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:07	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:07	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:07	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:07	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:07	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:13	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:13	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:13	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:13	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:13	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:13	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:13	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:13	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 21:13	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:13	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:13	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:13	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:13	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:13	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:13	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:13	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:13	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	55	%	15-87	1	11/22/17 11:25	11/27/17 21:13	321-60-8		
p-Terphenyl-d14 (S)	57	%	10-116	1	11/22/17 11:25	11/27/17 21:13	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 04:23	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 04:23	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 04:23	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 04:23	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 04:23	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 04:23	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 04:23	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 04:23	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 04:23	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 04:23	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 04:23	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 04:23	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB011-GW		Lab ID: 50185017011	Collected: 11/20/17 13:40	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 04:23	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 04:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 04:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 04:23	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 04:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 04:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 04:23	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 04:23	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 04:23	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 04:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 04:23	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 04:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 04:23	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 04:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 04:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 04:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 04:23	75-35-4	
cis-1,2-Dichloroethene	170	ug/L	5.0	1		11/29/17 04:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 04:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 04:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 04:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 04:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 04:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 04:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 04:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 04:23	100-41-4	L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 04:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 04:23	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/29/17 04:23	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 04:23	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 04:23	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 04:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 04:23	99-87-6	
Methylene Chloride	7.0	ug/L	5.0	1		11/29/17 04:23	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 04:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 04:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/29/17 04:23	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 04:23	103-65-1	
Styrene	ND	ug/L	5.0	1		11/29/17 04:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 04:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 04:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 04:23	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/17 04:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:23	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB011-GW		Lab ID: 50185017011		Collected: 11/20/17 13:40		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:23	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 04:23	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 04:23	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 04:23	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 04:23	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 04:23	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 04:23	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 04:23	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 04:23	108-05-4		
Vinyl chloride	8.9	ug/L	2.0	1		11/29/17 04:23	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 04:23	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	102	%.	86-116	1		11/29/17 04:23	1868-53-7		
4-Bromofluorobenzene (S)	95	%.	84-113	1		11/29/17 04:23	460-00-4		
Toluene-d8 (S)	96	%.	86-111	1		11/29/17 04:23	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB012-GW		Lab ID: 50185017012		Collected: 11/20/17 12:40		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:09	7440-38-2		
Barium	202	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:09	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:09	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:09	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:09	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:09	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:09	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:09	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:24	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:24	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:24	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:24	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:24	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:24	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:24	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:24	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 21:24	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:24	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:24	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:24	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:24	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:24	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:24	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:24	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:24	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	53	%.	15-87	1	11/22/17 11:25	11/27/17 21:24	321-60-8		
p-Terphenyl-d14 (S)	46	%.	10-116	1	11/22/17 11:25	11/27/17 21:24	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 04:55	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 04:55	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 04:55	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 04:55	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 04:55	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 04:55	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 04:55	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 04:55	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 04:55	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 04:55	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 04:55	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 04:55	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB012-GW		Lab ID: 50185017012	Collected: 11/20/17 12:40	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 04:55	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 04:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 04:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 04:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 04:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 04:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 04:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 04:55	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 04:55	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 04:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 04:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 04:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 04:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 04:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 04:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 04:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 04:55	75-35-4	
cis-1,2-Dichloroethene	22.6	ug/L	5.0	1		11/29/17 04:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 04:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 04:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 04:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 04:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 04:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 04:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 04:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 04:55	100-41-4	L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 04:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 04:55	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/29/17 04:55	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 04:55	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 04:55	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 04:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 04:55	99-87-6	
Methylene Chloride	7.8	ug/L	5.0	1		11/29/17 04:55	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 04:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 04:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/29/17 04:55	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 04:55	103-65-1	
Styrene	ND	ug/L	5.0	1		11/29/17 04:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 04:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 04:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 04:55	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/17 04:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:55	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB012-GW		Lab ID: 50185017012		Collected: 11/20/17 12:40		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 04:55	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 04:55	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 04:55	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 04:55	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 04:55	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 04:55	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 04:55	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 04:55	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 04:55	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 04:55	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 04:55	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	101	%.	86-116	1		11/29/17 04:55	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/29/17 04:55	460-00-4		
Toluene-d8 (S)	98	%.	86-111	1		11/29/17 04:55	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB013-GW		Lab ID: 50185017013		Collected: 11/20/17 12:05		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:11	7440-38-2		
Barium	265	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:11	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:11	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:11	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:11	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:11	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:11	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:12	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:36	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:36	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:36	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:36	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:36	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:36	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:36	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:36	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 21:36	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:36	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:36	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:36	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:36	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:36	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:36	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:36	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:36	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	59	%	15-87	1	11/22/17 11:25	11/27/17 21:36	321-60-8		
p-Terphenyl-d14 (S)	54	%	10-116	1	11/22/17 11:25	11/27/17 21:36	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 05:27	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 05:27	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 05:27	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 05:27	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 05:27	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 05:27	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 05:27	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 05:27	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 05:27	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 05:27	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 05:27	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 05:27	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB013-GW		Lab ID: 50185017013	Collected: 11/20/17 12:05	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 05:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 05:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 05:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 05:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 05:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 05:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 05:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 05:27	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 05:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 05:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 05:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 05:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 05:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 05:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 05:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 05:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 05:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 05:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 05:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 05:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 05:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 05:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 05:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 05:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 05:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 05:27	100-41-4	L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 05:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 05:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/29/17 05:27	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 05:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 05:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 05:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 05:27	99-87-6	
Methylene Chloride	6.9	ug/L	5.0	1		11/29/17 05:27	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 05:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 05:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/29/17 05:27	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 05:27	103-65-1	
Styrene	ND	ug/L	5.0	1		11/29/17 05:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 05:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 05:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 05:27	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/17 05:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:27	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB013-GW		Lab ID: 50185017013		Collected: 11/20/17 12:05		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:27	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 05:27	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 05:27	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 05:27	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 05:27	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 05:27	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 05:27	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 05:27	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 05:27	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 05:27	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 05:27	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	101	%.	86-116	1		11/29/17 05:27	1868-53-7		
4-Bromofluorobenzene (S)	95	%.	84-113	1		11/29/17 05:27	460-00-4		
Toluene-d8 (S)	96	%.	86-111	1		11/29/17 05:27	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB014-GW		Lab ID: 50185017014		Collected: 11/20/17 11:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:18	7440-38-2		
Barium	238	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:18	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:18	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:18	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:18	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:18	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:18	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:22	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:47	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:47	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:47	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:47	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:47	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:47	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:47	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:47	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 21:47	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:47	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:47	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:47	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:47	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:47	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:47	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:47	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:47	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	58	%.	15-87	1	11/22/17 11:25	11/27/17 21:47	321-60-8		
p-Terphenyl-d14 (S)	56	%.	10-116	1	11/22/17 11:25	11/27/17 21:47	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 05:59	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 05:59	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 05:59	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 05:59	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 05:59	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 05:59	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 05:59	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 05:59	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 05:59	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 05:59	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 05:59	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 05:59	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB014-GW		Lab ID: 50185017014		Collected: 11/20/17 11:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 05:59	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 05:59	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 05:59	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 05:59	108-90-7		
Chloroethane	ND	ug/L	5.0	1		11/29/17 05:59	75-00-3		
Chloroform	ND	ug/L	5.0	1		11/29/17 05:59	67-66-3		
Chloromethane	ND	ug/L	5.0	1		11/29/17 05:59	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 05:59	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 05:59	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 05:59	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 05:59	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		11/29/17 05:59	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:59	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:59	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:59	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 05:59	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 05:59	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 05:59	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 05:59	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 05:59	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 05:59	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 05:59	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 05:59	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 05:59	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 05:59	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 05:59	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 05:59	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 05:59	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 05:59	100-41-4	L2	
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 05:59	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 05:59	87-68-3		
n-Hexane	ND	ug/L	5.0	1		11/29/17 05:59	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		11/29/17 05:59	591-78-6		
Iodomethane	ND	ug/L	10.0	1		11/29/17 05:59	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 05:59	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 05:59	99-87-6		
Methylene Chloride	5.2	ug/L	5.0	1		11/29/17 05:59	75-09-2	B,C9	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 05:59	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 05:59	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		11/29/17 05:59	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 05:59	103-65-1		
Styrene	ND	ug/L	5.0	1		11/29/17 05:59	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 05:59	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 05:59	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 05:59	127-18-4		
Toluene	ND	ug/L	5.0	1		11/29/17 05:59	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:59	87-61-6		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB014-GW		Lab ID: 50185017014		Collected: 11/20/17 11:15		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 05:59	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 05:59	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 05:59	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 05:59	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 05:59	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 05:59	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 05:59	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 05:59	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 05:59	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 05:59	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 05:59	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	102	%.	86-116	1		11/29/17 05:59	1868-53-7		
4-Bromofluorobenzene (S)	97	%.	84-113	1		11/29/17 05:59	460-00-4		
Toluene-d8 (S)	99	%.	86-111	1		11/29/17 05:59	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB015-GW		Lab ID: 50185017015		Collected: 11/20/17 10:20		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:20	7440-38-2		
Barium	122	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:20	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:20	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:20	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:20	7439-92-1		
Selenium	32.5	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:20	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:20	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:24	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:58	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:58	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:58	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:58	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:58	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:58	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:58	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:58	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 21:58	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:58	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:58	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:58	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 21:58	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:58	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:58	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:58	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 21:58	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	50	%.	15-87	1	11/22/17 11:25	11/27/17 21:58	321-60-8		
p-Terphenyl-d14 (S)	50	%.	10-116	1	11/22/17 11:25	11/27/17 21:58	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 06:31	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 06:31	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 06:31	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 06:31	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 06:31	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 06:31	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 06:31	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 06:31	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 06:31	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 06:31	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 06:31	104-51-8	R1	
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 06:31	135-98-8	R1	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB015-GW		Lab ID: 50185017015	Collected: 11/20/17 10:20	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 06:31	98-06-6	R1
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 06:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 06:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 06:31	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 06:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 06:31	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 06:31	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 06:31	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 06:31	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 06:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 06:31	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 06:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 06:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 06:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 06:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 06:31	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 06:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 06:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 06:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 06:31	75-35-4	
cis-1,2-Dichloroethene	13.1	ug/L	5.0	1		11/29/17 06:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 06:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 06:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 06:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 06:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 06:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 06:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 06:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 06:31	100-41-4	L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 06:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 06:31	87-68-3	R1
n-Hexane	ND	ug/L	5.0	1		11/29/17 06:31	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 06:31	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 06:31	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 06:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 06:31	99-87-6	R1
Methylene Chloride	ND	ug/L	5.0	1		11/29/17 06:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 06:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 06:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/29/17 06:31	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 06:31	103-65-1	
Styrene	ND	ug/L	5.0	1		11/29/17 06:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 06:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 06:31	79-34-5	
Tetrachloroethene	260	ug/L	5.0	1		11/29/17 06:31	127-18-4	M1
Toluene	ND	ug/L	5.0	1		11/29/17 06:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 06:31	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB015-GW		Lab ID: 50185017015		Collected: 11/20/17 10:20		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 06:31	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 06:31	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 06:31	79-00-5		
Trichloroethene	12.3	ug/L	5.0	1		11/29/17 06:31	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 06:31	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 06:31	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 06:31	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 06:31	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 06:31	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 06:31	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 06:31	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	95	%.	86-116	1		11/29/17 06:31	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/29/17 06:31	460-00-4		
Toluene-d8 (S)	96	%.	86-111	1		11/29/17 06:31	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB016-GW		Lab ID: 50185017016		Collected: 11/20/17 09:30		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	13.7	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:22	7440-38-2		
Barium	229	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:22	7440-39-3		
Cadmium	2.2	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:22	7440-43-9		
Chromium	14.7	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:22	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:22	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:22	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:22	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:27	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 22:10	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 22:10	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 22:10	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 22:10	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 22:10	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 22:10	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 22:10	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 22:10	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 22:10	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 22:10	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 22:10	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 22:10	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 22:10	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 22:10	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 22:10	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 22:10	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 22:10	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	60	%.	15-87	1	11/22/17 11:25	11/27/17 22:10	321-60-8		
p-Terphenyl-d14 (S)	59	%.	10-116	1	11/22/17 11:25	11/27/17 22:10	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 08:06	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 08:06	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 08:06	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 08:06	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 08:06	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 08:06	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 08:06	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 08:06	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 08:06	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 08:06	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 08:06	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 08:06	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB016-GW		Lab ID: 50185017016		Collected: 11/20/17 09:30		Received: 11/21/17 14:25		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 08:06	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 08:06	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 08:06	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 08:06	108-90-7		
Chloroethane	ND	ug/L	5.0	1		11/29/17 08:06	75-00-3		
Chloroform	ND	ug/L	5.0	1		11/29/17 08:06	67-66-3		
Chloromethane	ND	ug/L	5.0	1		11/29/17 08:06	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 08:06	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 08:06	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 08:06	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 08:06	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		11/29/17 08:06	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:06	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:06	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:06	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 08:06	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 08:06	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 08:06	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 08:06	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 08:06	75-35-4		
cis-1,2-Dichloroethene	69.4	ug/L	5.0	1		11/29/17 08:06	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 08:06	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 08:06	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 08:06	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 08:06	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 08:06	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 08:06	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 08:06	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 08:06	100-41-4		L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 08:06	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 08:06	87-68-3		
n-Hexane	ND	ug/L	5.0	1		11/29/17 08:06	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		11/29/17 08:06	591-78-6		
Iodomethane	ND	ug/L	10.0	1		11/29/17 08:06	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 08:06	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 08:06	99-87-6		
Methylene Chloride	6.8	ug/L	5.0	1		11/29/17 08:06	75-09-2		B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 08:06	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 08:06	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		11/29/17 08:06	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 08:06	103-65-1		
Styrene	ND	ug/L	5.0	1		11/29/17 08:06	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 08:06	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 08:06	79-34-5		
Tetrachloroethene	9.8	ug/L	5.0	1		11/29/17 08:06	127-18-4		
Toluene	ND	ug/L	5.0	1		11/29/17 08:06	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:06	87-61-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB016-GW		Lab ID: 50185017016		Collected: 11/20/17 09:30		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:06	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 08:06	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 08:06	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 08:06	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 08:06	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 08:06	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 08:06	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 08:06	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 08:06	108-05-4		
Vinyl chloride	11.3	ug/L	2.0	1		11/29/17 08:06	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 08:06	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	98	%.	86-116	1		11/29/17 08:06	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/29/17 08:06	460-00-4		
Toluene-d8 (S)	99	%.	86-111	1		11/29/17 08:06	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB017-GW		Lab ID: 50185017017		Collected: 11/20/17 08:30		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:25	7440-38-2		
Barium	53.9	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:25	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:25	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:25	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:25	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:25	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:25	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:29	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:44	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:44	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:44	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:44	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:44	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:44	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:44	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:44	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 12:25	11/27/17 22:44	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:44	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:44	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:44	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:44	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:44	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:44	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:44	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:44	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	75	%.	15-87	1	11/22/17 12:25	11/27/17 22:44	321-60-8		
p-Terphenyl-d14 (S)	85	%.	10-116	1	11/22/17 12:25	11/27/17 22:44	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 08:38	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 08:38	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 08:38	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 08:38	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 08:38	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 08:38	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 08:38	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 08:38	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 08:38	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 08:38	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 08:38	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 08:38	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB017-GW		Lab ID: 50185017017	Collected: 11/20/17 08:30	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 08:38	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 08:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 08:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 08:38	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 08:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 08:38	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 08:38	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 08:38	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 08:38	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 08:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 08:38	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 08:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 08:38	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 08:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 08:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 08:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 08:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 08:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 08:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 08:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 08:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 08:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 08:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 08:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 08:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 08:38	100-41-4	L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 08:38	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 08:38	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/29/17 08:38	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 08:38	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 08:38	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 08:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 08:38	99-87-6	
Methylene Chloride	8.8	ug/L	5.0	1		11/29/17 08:38	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 08:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 08:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/29/17 08:38	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 08:38	103-65-1	
Styrene	ND	ug/L	5.0	1		11/29/17 08:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 08:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 08:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 08:38	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/17 08:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:38	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: SB017-GW		Lab ID: 50185017017		Collected: 11/20/17 08:30		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 08:38	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 08:38	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 08:38	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 08:38	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 08:38	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 08:38	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 08:38	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 08:38	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 08:38	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 08:38	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 08:38	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	103	%.	86-116	1		11/29/17 08:38	1868-53-7		
4-Bromofluorobenzene (S)	92	%.	84-113	1		11/29/17 08:38	460-00-4		
Toluene-d8 (S)	97	%.	86-111	1		11/29/17 08:38	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: DUP-GW1		Lab ID: 50185017018		Collected: 11/21/17 08:00		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	52.0	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:27	7440-38-2		
Barium	243	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:27	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:27	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:27	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:27	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:27	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:27	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:31	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:56	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:56	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:56	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:56	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:56	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:56	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:56	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:56	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 12:25	11/27/17 22:56	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:56	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:56	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:56	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 22:56	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:56	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:56	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:56	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 22:56	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	67	%.	15-87	1	11/22/17 12:25	11/27/17 22:56	321-60-8		
p-Terphenyl-d14 (S)	81	%.	10-116	1	11/22/17 12:25	11/27/17 22:56	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/29/17 09:10	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/29/17 09:10	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/29/17 09:10	107-13-1		
Benzene	ND	ug/L	5.0	1		11/29/17 09:10	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/29/17 09:10	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 09:10	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 09:10	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/29/17 09:10	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/29/17 09:10	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 09:10	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 09:10	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 09:10	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: DUP-GW1		Lab ID: 50185017018	Collected: 11/21/17 08:00	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 09:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 09:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 09:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 09:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/29/17 09:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/29/17 09:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/29/17 09:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 09:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 09:10	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 09:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 09:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/29/17 09:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 09:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 09:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 09:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 09:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 09:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 09:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 09:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 09:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 09:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 09:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 09:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 09:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 09:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 09:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 09:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 09:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 09:10	100-41-4	L2
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 09:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 09:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/29/17 09:10	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/29/17 09:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/29/17 09:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 09:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/29/17 09:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/29/17 09:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 09:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 09:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/29/17 09:10	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 09:10	103-65-1	
Styrene	ND	ug/L	5.0	1		11/29/17 09:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 09:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 09:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 09:10	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/17 09:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 09:10	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: DUP-GW1		Lab ID: 50185017018		Collected: 11/21/17 08:00		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 09:10	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 09:10	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 09:10	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/29/17 09:10	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 09:10	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 09:10	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 09:10	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 09:10	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 09:10	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 09:10	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 09:10	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	100	%.	86-116	1		11/29/17 09:10	1868-53-7		
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/29/17 09:10	460-00-4		
Toluene-d8 (S)	100	%.	86-111	1		11/29/17 09:10	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: DUP-GW2		Lab ID: 50185017019		Collected: 11/21/17 08:00		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	63.1	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:29	7440-38-2		
Barium	272	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:29	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/27/17 06:34	11/28/17 01:29	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:29	7440-47-3		
Lead	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:29	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:29	7782-49-2		
Silver	ND	ug/L	10.0	1	11/27/17 06:34	11/28/17 01:29	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 14:52	11/29/17 12:34	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 23:07	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 23:07	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 23:07	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 23:07	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 23:07	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 23:07	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 23:07	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 23:07	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/22/17 12:25	11/27/17 23:07	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 23:07	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 23:07	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 23:07	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 12:25	11/27/17 23:07	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 23:07	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 23:07	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 23:07	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/22/17 12:25	11/27/17 23:07	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	68	%.	15-87	1	11/22/17 12:25	11/27/17 23:07	321-60-8		
p-Terphenyl-d14 (S)	88	%.	10-116	1	11/22/17 12:25	11/27/17 23:07	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/30/17 10:47	67-64-1	M5	
Acrolein	ND	ug/L	50.0	1		11/30/17 10:47	107-02-8	M5	
Acrylonitrile	ND	ug/L	100	1		11/30/17 10:47	107-13-1	M5	
Benzene	ND	ug/L	5.0	1		11/30/17 10:47	71-43-2	M5	
Bromobenzene	ND	ug/L	5.0	1		11/30/17 10:47	108-86-1	M5	
Bromochloromethane	ND	ug/L	5.0	1		11/30/17 10:47	74-97-5	M5	
Bromodichloromethane	ND	ug/L	5.0	1		11/30/17 10:47	75-27-4	M5	
Bromoform	ND	ug/L	5.0	1		11/30/17 10:47	75-25-2	M5	
Bromomethane	ND	ug/L	5.0	1		11/30/17 10:47	74-83-9	M5	
2-Butanone (MEK)	ND	ug/L	25.0	1		11/30/17 10:47	78-93-3	M5	
n-Butylbenzene	ND	ug/L	5.0	1		11/30/17 10:47	104-51-8	M5	
sec-Butylbenzene	ND	ug/L	5.0	1		11/30/17 10:47	135-98-8	M5	

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: DUP-GW2		Lab ID: 50185017019		Collected: 11/21/17 08:00		Received: 11/21/17 14:25		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
tert-Butylbenzene	ND	ug/L	5.0	1			11/30/17 10:47	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1			11/30/17 10:47	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1			11/30/17 10:47	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1			11/30/17 10:47	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1			11/30/17 10:47	75-00-3	M5
Chloroform	ND	ug/L	5.0	1			11/30/17 10:47	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1			11/30/17 10:47	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1			11/30/17 10:47	95-49-8	M5
4-Chlorotoluene	ND	ug/L	5.0	1			11/30/17 10:47	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1			11/30/17 10:47	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1			11/30/17 10:47	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1			11/30/17 10:47	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	5.0	1			11/30/17 10:47	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1			11/30/17 10:47	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1			11/30/17 10:47	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1			11/30/17 10:47	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1			11/30/17 10:47	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1			11/30/17 10:47	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1			11/30/17 10:47	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1			11/30/17 10:47	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1			11/30/17 10:47	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			11/30/17 10:47	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1			11/30/17 10:47	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1			11/30/17 10:47	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1			11/30/17 10:47	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1			11/30/17 10:47	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			11/30/17 10:47	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			11/30/17 10:47	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1			11/30/17 10:47	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1			11/30/17 10:47	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1			11/30/17 10:47	87-68-3	M5
n-Hexane	ND	ug/L	5.0	1			11/30/17 10:47	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1			11/30/17 10:47	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1			11/30/17 10:47	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1			11/30/17 10:47	98-82-8	M5
p-Isopropyltoluene	ND	ug/L	5.0	1			11/30/17 10:47	99-87-6	M5
Methylene Chloride	ND	ug/L	5.0	1			11/30/17 10:47	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1			11/30/17 10:47	108-10-1	M5
Methyl-tert-butyl ether	4.9	ug/L	4.0	1			11/30/17 10:47	1634-04-4	M5
Naphthalene	ND	ug/L	5.0	1			11/30/17 10:47	91-20-3	M5
n-Propylbenzene	ND	ug/L	5.0	1			11/30/17 10:47	103-65-1	M5
Styrene	ND	ug/L	5.0	1			11/30/17 10:47	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1			11/30/17 10:47	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			11/30/17 10:47	79-34-5	M5
Tetrachloroethene	ND	ug/L	5.0	1			11/30/17 10:47	127-18-4	M5
Toluene	ND	ug/L	5.0	1			11/30/17 10:47	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1			11/30/17 10:47	87-61-6	M5

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: DUP-GW2		Lab ID: 50185017019		Collected: 11/21/17 08:00		Received: 11/21/17 14:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/30/17 10:47	120-82-1	M5	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/17 10:47	71-55-6	M5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/30/17 10:47	79-00-5	M5	
Trichloroethene	ND	ug/L	5.0	1		11/30/17 10:47	79-01-6	M5	
Trichlorofluoromethane	ND	ug/L	5.0	1		11/30/17 10:47	75-69-4	M5	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/30/17 10:47	96-18-4	M5	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/30/17 10:47	95-63-6	M5	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/30/17 10:47	108-67-8	M5	
Vinyl acetate	ND	ug/L	50.0	1		11/30/17 10:47	108-05-4	M5	
Vinyl chloride	ND	ug/L	2.0	1		11/30/17 10:47	75-01-4	M5	
Xylene (Total)	ND	ug/L	10.0	1		11/30/17 10:47	1330-20-7	M5	
Surrogates									
Dibromofluoromethane (S)	102	%.	86-116	1		11/30/17 10:47	1868-53-7	M5	
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/30/17 10:47	460-00-4	M5	
Toluene-d8 (S)	99	%.	86-111	1		11/30/17 10:47	2037-26-5	M5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: TB-5		Lab ID: 50185017020	Collected: 11/20/17 08:00	Received: 11/21/17 14:25	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		11/29/17 21:12	67-64-1	M5
Acrolein	ND	ug/L	50.0	1		11/29/17 21:12	107-02-8	M5
Acrylonitrile	ND	ug/L	100	1		11/29/17 21:12	107-13-1	M5
Benzene	ND	ug/L	5.0	1		11/29/17 21:12	71-43-2	M5
Bromobenzene	ND	ug/L	5.0	1		11/29/17 21:12	108-86-1	M5
Bromochloromethane	ND	ug/L	5.0	1		11/29/17 21:12	74-97-5	M5
Bromodichloromethane	ND	ug/L	5.0	1		11/29/17 21:12	75-27-4	M5
Bromoform	ND	ug/L	5.0	1		11/29/17 21:12	75-25-2	M5
Bromomethane	ND	ug/L	5.0	1		11/29/17 21:12	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	25.0	1		11/29/17 21:12	78-93-3	M5
n-Butylbenzene	ND	ug/L	5.0	1		11/29/17 21:12	104-51-8	M5
sec-Butylbenzene	ND	ug/L	5.0	1		11/29/17 21:12	135-98-8	M5
tert-Butylbenzene	ND	ug/L	5.0	1		11/29/17 21:12	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		11/29/17 21:12	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/17 21:12	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		11/29/17 21:12	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		11/29/17 21:12	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		11/29/17 21:12	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		11/29/17 21:12	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 21:12	95-49-8	M5
4-Chlorotoluene	ND	ug/L	5.0	1		11/29/17 21:12	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		11/29/17 21:12	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/29/17 21:12	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		11/29/17 21:12	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 21:12	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 21:12	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/29/17 21:12	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/29/17 21:12	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/29/17 21:12	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		11/29/17 21:12	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		11/29/17 21:12	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/17 21:12	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 21:12	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/17 21:12	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 21:12	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		11/29/17 21:12	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		11/29/17 21:12	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		11/29/17 21:12	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 21:12	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/29/17 21:12	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1		11/29/17 21:12	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		11/29/17 21:12	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/29/17 21:12	87-68-3	M5
n-Hexane	ND	ug/L	5.0	1		11/29/17 21:12	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		11/29/17 21:12	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		11/29/17 21:12	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/29/17 21:12	98-82-8	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Sample: TB-5		Lab ID: 50185017020		Collected: 11/20/17 08:00		Received: 11/21/17 14:25		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		11/29/17 21:12	99-87-6	M5	
Methylene Chloride	9.3	ug/L	5.0	1		11/29/17 21:12	75-09-2	B,C9,L1, M5	
1-Methylnaphthalene	ND	ug/L	5.0	1		11/29/17 21:12	90-12-0	M5,N2	
2-Methylnaphthalene	ND	ug/L	10.0	1		11/29/17 21:12	91-57-6	M5	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/29/17 21:12	108-10-1	M5	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/29/17 21:12	1634-04-4	M5	
Naphthalene	ND	ug/L	1.7	1		11/29/17 21:12	91-20-3	M5	
n-Propylbenzene	ND	ug/L	5.0	1		11/29/17 21:12	103-65-1	M5	
Styrene	ND	ug/L	5.0	1		11/29/17 21:12	100-42-5	M5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 21:12	630-20-6	M5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/29/17 21:12	79-34-5	M5	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/17 21:12	127-18-4	M5	
Toluene	ND	ug/L	5.0	1		11/29/17 21:12	108-88-3	M5	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 21:12	87-61-6	M5	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/29/17 21:12	120-82-1	M5	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/17 21:12	71-55-6	M5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/29/17 21:12	79-00-5	M5	
Trichloroethene	ND	ug/L	5.0	1		11/29/17 21:12	79-01-6	M5	
Trichlorofluoromethane	ND	ug/L	5.0	1		11/29/17 21:12	75-69-4	M5	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/29/17 21:12	96-18-4	M5	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 21:12	95-63-6	M5	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/29/17 21:12	108-67-8	M5	
Vinyl acetate	ND	ug/L	50.0	1		11/29/17 21:12	108-05-4	M5	
Vinyl chloride	ND	ug/L	2.0	1		11/29/17 21:12	75-01-4	M5	
Xylene (Total)	ND	ug/L	10.0	1		11/29/17 21:12	1330-20-7	M5	
Surrogates									
Dibromofluoromethane (S)	100	%.	86-116	1		11/29/17 21:12	1868-53-7	M5	
4-Bromofluorobenzene (S)	94	%.	84-113	1		11/29/17 21:12	460-00-4	M5	
Toluene-d8 (S)	95	%.	86-111	1		11/29/17 21:12	2037-26-5	M5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch:	416621	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	50185017001, 50185017002, 50185017004, 50185017005, 50185017006, 50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016, 50185017017, 50185017018, 50185017019		

METHOD BLANK:	1918923	Matrix:	Water
Associated Lab Samples:	50185017001, 50185017002, 50185017004, 50185017005, 50185017006, 50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016, 50185017017, 50185017018, 50185017019		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	11/29/17 11:33	

LABORATORY CONTROL SAMPLE: 1918924						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
1918925					1918926							
		50185017001	MS	MSD								
Parameter	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.2	5.2	103	103	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site
Pace Project No.: 50185017

QC Batch:	416660	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	50185017001, 50185017002, 50185017004, 50185017005, 50185017006, 50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016, 50185017017, 50185017018, 50185017019		

METHOD BLANK:	1919029	Matrix:	Water
Associated Lab Samples:	50185017001, 50185017002, 50185017004, 50185017005, 50185017006, 50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016, 50185017017, 50185017018, 50185017019		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/28/17 00:33	
Barium	ug/L	ND	10.0	11/28/17 00:33	
Cadmium	ug/L	ND	2.0	11/28/17 00:33	
Chromium	ug/L	ND	10.0	11/28/17 00:33	
Lead	ug/L	ND	10.0	11/28/17 00:33	
Selenium	ug/L	ND	10.0	11/28/17 00:33	
Silver	ug/L	ND	10.0	11/28/17 00:33	

LABORATORY CONTROL SAMPLE: 1919030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1010	101	80-120	
Barium	ug/L	1000	992	99	80-120	
Cadmium	ug/L	1000	1000	100	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Lead	ug/L	1000	962	96	80-120	
Selenium	ug/L	1000	1010	101	80-120	
Silver	ug/L	500	461	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919031 1919032

Parameter	Units	50185017004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1060	1050	106	105	75-125	2	20	
Barium	ug/L	229	1000	1000	1220	1200	99	97	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	1030	1010	103	101	75-125	2	20	
Chromium	ug/L	10.8	1000	1000	998	982	99	97	75-125	2	20	
Lead	ug/L	ND	1000	1000	910	893	91	89	75-125	2	20	
Selenium	ug/L	ND	1000	1000	1050	1030	104	102	75-125	2	20	
Silver	ug/L	ND	500	500	475	486	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch: 417281

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50185017001

METHOD BLANK: 1921661

Matrix: Water

Associated Lab Samples: 50185017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/28/17 15:06	M5
1,1,1-Trichloroethane	ug/L	ND	5.0	11/28/17 15:06	M5
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/28/17 15:06	M5
1,1,2-Trichloroethane	ug/L	ND	5.0	11/28/17 15:06	M5
1,1-Dichloroethane	ug/L	ND	5.0	11/28/17 15:06	M5
1,1-Dichloroethene	ug/L	ND	5.0	11/28/17 15:06	M5
1,1-Dichloropropene	ug/L	ND	5.0	11/28/17 15:06	M5
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	M5
1,2,3-Trichloropropane	ug/L	ND	5.0	11/28/17 15:06	M5
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	M5
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/28/17 15:06	M5
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/28/17 15:06	M5
1,2-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	M5
1,2-Dichloroethane	ug/L	ND	5.0	11/28/17 15:06	M5
1,2-Dichloropropane	ug/L	ND	5.0	11/28/17 15:06	M5
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/28/17 15:06	M5
1,3-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	M5
1,3-Dichloropropane	ug/L	ND	5.0	11/28/17 15:06	M5
1,4-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	M5
2,2-Dichloropropane	ug/L	ND	5.0	11/28/17 15:06	M5
2-Butanone (MEK)	ug/L	ND	25.0	11/28/17 15:06	M5
2-Chlorotoluene	ug/L	ND	5.0	11/28/17 15:06	M5
2-Hexanone	ug/L	ND	25.0	11/28/17 15:06	M5
4-Chlorotoluene	ug/L	ND	5.0	11/28/17 15:06	M5
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/28/17 15:06	M5
Acetone	ug/L	ND	100	11/28/17 15:06	M5
Acrolein	ug/L	ND	50.0	11/28/17 15:06	M5
Acrylonitrile	ug/L	ND	100	11/28/17 15:06	M5
Benzene	ug/L	ND	5.0	11/28/17 15:06	M5
Bromobenzene	ug/L	ND	5.0	11/28/17 15:06	M5
Bromochloromethane	ug/L	ND	5.0	11/28/17 15:06	M5
Bromodichloromethane	ug/L	ND	5.0	11/28/17 15:06	M5
Bromoform	ug/L	ND	5.0	11/28/17 15:06	M5
Bromomethane	ug/L	ND	5.0	11/28/17 15:06	M5
Carbon disulfide	ug/L	ND	10.0	11/28/17 15:06	M5
Carbon tetrachloride	ug/L	ND	5.0	11/28/17 15:06	M5
Chlorobenzene	ug/L	ND	5.0	11/28/17 15:06	M5
Chloroethane	ug/L	ND	5.0	11/28/17 15:06	M5
Chloroform	ug/L	ND	5.0	11/28/17 15:06	M5
Chloromethane	ug/L	ND	5.0	11/28/17 15:06	M5
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/28/17 15:06	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

METHOD BLANK: 1921661

Matrix: Water

Associated Lab Samples: 50185017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/28/17 15:06	M5
Dibromochloromethane	ug/L	ND	5.0	11/28/17 15:06	M5
Dibromomethane	ug/L	ND	5.0	11/28/17 15:06	M5
Dichlorodifluoromethane	ug/L	ND	5.0	11/28/17 15:06	M5
Ethyl methacrylate	ug/L	ND	100	11/28/17 15:06	M5
Ethylbenzene	ug/L	ND	5.0	11/28/17 15:06	M5
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/28/17 15:06	M5
Iodomethane	ug/L	ND	10.0	11/28/17 15:06	M5
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/28/17 15:06	M5
Methyl-tert-butyl ether	ug/L	ND	4.0	11/28/17 15:06	M5
Methylene Chloride	ug/L	12.1	5.0	11/28/17 15:06	C9,M5
n-Butylbenzene	ug/L	ND	5.0	11/28/17 15:06	M5
n-Hexane	ug/L	ND	5.0	11/28/17 15:06	M5
n-Propylbenzene	ug/L	ND	5.0	11/28/17 15:06	M5
Naphthalene	ug/L	ND	5.0	11/28/17 15:06	M5
p-Isopropyltoluene	ug/L	ND	5.0	11/28/17 15:06	M5
sec-Butylbenzene	ug/L	ND	5.0	11/28/17 15:06	M5
Styrene	ug/L	ND	5.0	11/28/17 15:06	M5
tert-Butylbenzene	ug/L	ND	5.0	11/28/17 15:06	M5
Tetrachloroethene	ug/L	ND	5.0	11/28/17 15:06	M5
Toluene	ug/L	ND	5.0	11/28/17 15:06	M5
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/28/17 15:06	M5
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/28/17 15:06	M5
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/28/17 15:06	M5
Trichloroethene	ug/L	ND	5.0	11/28/17 15:06	M5
Trichlorofluoromethane	ug/L	ND	5.0	11/28/17 15:06	M5
Vinyl acetate	ug/L	ND	50.0	11/28/17 15:06	M5
Vinyl chloride	ug/L	ND	2.0	11/28/17 15:06	M5
Xylene (Total)	ug/L	ND	10.0	11/28/17 15:06	M5
4-Bromofluorobenzene (S)	%	96	84-113	11/28/17 15:06	M5
Dibromofluoromethane (S)	%	99	86-116	11/28/17 15:06	M5
Toluene-d8 (S)	%	99	86-111	11/28/17 15:06	M5

LABORATORY CONTROL SAMPLE: 1921662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	80-123	M5
1,1,1-Trichloroethane	ug/L	50	44.0	88	72-126	M5
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	74-124	M5
1,1,2-Trichloroethane	ug/L	50	45.3	91	79-121	M5
1,1-Dichloroethane	ug/L	50	47.4	95	77-122	M5
1,1-Dichloroethene	ug/L	50	51.6	103	70-131	M5
1,1-Dichloropropene	ug/L	50	48.3	97	79-124	M5
1,2,3-Trichlorobenzene	ug/L	50	48.0	96	70-129	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1921662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	54.0	108	79-128	M5
1,2,4-Trichlorobenzene	ug/L	50	49.2	98	69-129	M5
1,2,4-Trimethylbenzene	ug/L	50	48.5	97	76-125	M5
1,2-Dibromoethane (EDB)	ug/L	50	51.7	103	81-123	M5
1,2-Dichlorobenzene	ug/L	50	50.2	100	77-118	M5
1,2-Dichloroethane	ug/L	50	43.2	86	72-119	M5
1,2-Dichloropropane	ug/L	50	52.6	105	78-125	M5
1,3,5-Trimethylbenzene	ug/L	50	51.0	102	79-123	M5
1,3-Dichlorobenzene	ug/L	50	50.4	101	74-120	M5
1,3-Dichloropropane	ug/L	50	53.1	106	80-127	M5
1,4-Dichlorobenzene	ug/L	50	48.4	97	72-118	M5
2,2-Dichloropropane	ug/L	50	44.5	89	41-145	M5
2-Butanone (MEK)	ug/L	250	242	97	61-150	M5
2-Chlorotoluene	ug/L	50	49.8	100	77-119	M5
2-Hexanone	ug/L	250	233	93	67-141	M5
4-Chlorotoluene	ug/L	50	51.1	102	75-123	M5
4-Methyl-2-pentanone (MIBK)	ug/L	250	235	94	71-131	M5
Acetone	ug/L	250	249	99	39-166	M5
Acrolein	ug/L	1000	1240	124	22-200	M5
Acrylonitrile	ug/L	200	208	104	62-130	M5
Benzene	ug/L	50	49.7	99	79-120	M5
Bromobenzene	ug/L	50	47.3	95	76-121	M5
Bromochloromethane	ug/L	50	49.9	100	69-136	M5
Bromodichloromethane	ug/L	50	43.2	86	76-125	M5
Bromoform	ug/L	50	54.8	110	69-119	M5
Bromomethane	ug/L	50	45.8	92	27-161	M5
Carbon disulfide	ug/L	50	53.1	106	60-130	M5
Carbon tetrachloride	ug/L	50	44.3	89	74-132	M5
Chlorobenzene	ug/L	50	50.8	102	77-116	M5
Chloroethane	ug/L	50	50.3	101	51-132	M5
Chloroform	ug/L	50	46.1	92	76-118	M5
Chloromethane	ug/L	50	51.2	102	46-126	M5
cis-1,2-Dichloroethene	ug/L	50	47.4	95	74-126	M5
cis-1,3-Dichloropropene	ug/L	50	49.0	98	78-125	M5
Dibromochloromethane	ug/L	50	49.8	100	80-123	M5
Dibromomethane	ug/L	50	47.6	95	75-124	M5
Dichlorodifluoromethane	ug/L	50	52.1	104	42-152	M5
Ethyl methacrylate	ug/L	200	192	96	75-136	M5
Ethylbenzene	ug/L	50	47.5	95	80-123	M5
Hexachloro-1,3-butadiene	ug/L	50	51.3	103	74-127	M5
Iodomethane	ug/L	100	112	112	43-156	M5
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	80-122	M5
Methyl-tert-butyl ether	ug/L	50	46.6	93	63-131	M5
Methylene Chloride	ug/L	50	63.2	126	62-126	M5
n-Butylbenzene	ug/L	50	49.2	98	75-123	M5
n-Hexane	ug/L	50	46.8	94	66-129	M5
n-Propylbenzene	ug/L	50	51.1	102	79-128	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1921662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	47.8	96	66-130	M5
p-Isopropyltoluene	ug/L	50	50.9	102	79-124	M5
sec-Butylbenzene	ug/L	50	50.5	101	80-126	M5
Styrene	ug/L	50	49.4	99	81-125	M5
tert-Butylbenzene	ug/L	50	41.4	83	62-106	M5
Tetrachloroethene	ug/L	50	48.9	98	74-119	M5
Toluene	ug/L	50	47.7	95	77-117	M5
trans-1,2-Dichloroethene	ug/L	50	49.4	99	74-128	M5
trans-1,3-Dichloropropene	ug/L	50	48.3	97	75-132	M5
trans-1,4-Dichloro-2-butene	ug/L	200	196	98	42-134	M5
Trichloroethene	ug/L	50	47.5	95	75-119	M5
Trichlorofluoromethane	ug/L	50	49.7	99	57-152	M5
Vinyl acetate	ug/L	200	193	97	71-148	M5
Vinyl chloride	ug/L	50	55.4	111	62-137	M5
Xylene (Total)	ug/L	150	145	97	79-121	M5
4-Bromofluorobenzene (S)	%.			97	84-113	M5
Dibromofluoromethane (S)	%.			93	86-116	M5
Toluene-d8 (S)	%.			96	86-111	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch: 417282 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50185017002, 50185017004, 50185017005

METHOD BLANK: 1921666 Matrix: Water

Associated Lab Samples: 50185017002, 50185017004, 50185017005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/28/17 15:22	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/28/17 15:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/28/17 15:22	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/28/17 15:22	
1,1-Dichloroethane	ug/L	ND	5.0	11/28/17 15:22	
1,1-Dichloroethene	ug/L	ND	5.0	11/28/17 15:22	
1,1-Dichloropropene	ug/L	ND	5.0	11/28/17 15:22	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/28/17 15:22	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/28/17 15:22	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/28/17 15:22	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/28/17 15:22	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/28/17 15:22	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:22	
1,2-Dichloroethane	ug/L	ND	5.0	11/28/17 15:22	
1,2-Dichloropropane	ug/L	ND	5.0	11/28/17 15:22	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/28/17 15:22	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:22	
1,3-Dichloropropane	ug/L	ND	5.0	11/28/17 15:22	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:22	
2,2-Dichloropropane	ug/L	ND	5.0	11/28/17 15:22	
2-Butanone (MEK)	ug/L	ND	25.0	11/28/17 15:22	
2-Chlorotoluene	ug/L	ND	5.0	11/28/17 15:22	
2-Hexanone	ug/L	ND	25.0	11/28/17 15:22	
4-Chlorotoluene	ug/L	ND	5.0	11/28/17 15:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/28/17 15:22	
Acetone	ug/L	ND	100	11/28/17 15:22	
Acrolein	ug/L	ND	50.0	11/28/17 15:22	
Acrylonitrile	ug/L	ND	100	11/28/17 15:22	
Benzene	ug/L	ND	5.0	11/28/17 15:22	
Bromobenzene	ug/L	ND	5.0	11/28/17 15:22	
Bromochloromethane	ug/L	ND	5.0	11/28/17 15:22	
Bromodichloromethane	ug/L	ND	5.0	11/28/17 15:22	
Bromoform	ug/L	ND	5.0	11/28/17 15:22	
Bromomethane	ug/L	ND	5.0	11/28/17 15:22	
Carbon disulfide	ug/L	ND	10.0	11/28/17 15:22	
Carbon tetrachloride	ug/L	ND	5.0	11/28/17 15:22	
Chlorobenzene	ug/L	ND	5.0	11/28/17 15:22	
Chloroethane	ug/L	ND	5.0	11/28/17 15:22	
Chloroform	ug/L	ND	5.0	11/28/17 15:22	
Chloromethane	ug/L	ND	5.0	11/28/17 15:22	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/28/17 15:22	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

METHOD BLANK: 1921666

Matrix: Water

Associated Lab Samples: 50185017002, 50185017004, 50185017005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/28/17 15:22	
Dibromochloromethane	ug/L	ND	5.0	11/28/17 15:22	
Dibromomethane	ug/L	ND	5.0	11/28/17 15:22	
Dichlorodifluoromethane	ug/L	ND	5.0	11/28/17 15:22	
Ethyl methacrylate	ug/L	ND	100	11/28/17 15:22	
Ethylbenzene	ug/L	ND	5.0	11/28/17 15:22	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/28/17 15:22	
Iodomethane	ug/L	ND	10.0	11/28/17 15:22	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/28/17 15:22	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/28/17 15:22	
Methylene Chloride	ug/L	13.3	5.0	11/28/17 15:22	
n-Butylbenzene	ug/L	ND	5.0	11/28/17 15:22	
n-Hexane	ug/L	ND	5.0	11/28/17 15:22	
n-Propylbenzene	ug/L	ND	5.0	11/28/17 15:22	
Naphthalene	ug/L	ND	5.0	11/28/17 15:22	
p-Isopropyltoluene	ug/L	ND	5.0	11/28/17 15:22	
sec-Butylbenzene	ug/L	ND	5.0	11/28/17 15:22	
Styrene	ug/L	ND	5.0	11/28/17 15:22	
tert-Butylbenzene	ug/L	ND	5.0	11/28/17 15:22	
Tetrachloroethene	ug/L	ND	5.0	11/28/17 15:22	
Toluene	ug/L	ND	5.0	11/28/17 15:22	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/28/17 15:22	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/28/17 15:22	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/28/17 15:22	
Trichloroethene	ug/L	ND	5.0	11/28/17 15:22	
Trichlorofluoromethane	ug/L	ND	5.0	11/28/17 15:22	
Vinyl acetate	ug/L	ND	50.0	11/28/17 15:22	
Vinyl chloride	ug/L	ND	2.0	11/28/17 15:22	
Xylene (Total)	ug/L	ND	10.0	11/28/17 15:22	
4-Bromofluorobenzene (S)	%	95	84-113	11/28/17 15:22	
Dibromofluoromethane (S)	%	98	86-116	11/28/17 15:22	
Toluene-d8 (S)	%	98	86-111	11/28/17 15:22	

LABORATORY CONTROL SAMPLE: 1921667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.6	105	80-123	
1,1,1-Trichloroethane	ug/L	50	47.8	96	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	54.8	110	74-124	
1,1,2-Trichloroethane	ug/L	50	51.0	102	79-121	
1,1-Dichloroethane	ug/L	50	52.1	104	77-122	
1,1-Dichloroethene	ug/L	50	53.5	107	70-131	
1,1-Dichloropropene	ug/L	50	51.8	104	79-124	
1,2,3-Trichlorobenzene	ug/L	50	59.7	119	70-129	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1921667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	62.5	125	79-128	
1,2,4-Trichlorobenzene	ug/L	50	57.0	114	69-129	
1,2,4-Trimethylbenzene	ug/L	50	53.4	107	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	55.6	111	81-123	
1,2-Dichlorobenzene	ug/L	50	56.9	114	77-118	
1,2-Dichloroethane	ug/L	50	43.7	87	72-119	
1,2-Dichloropropane	ug/L	50	54.4	109	78-125	
1,3,5-Trimethylbenzene	ug/L	50	54.8	110	79-123	
1,3-Dichlorobenzene	ug/L	50	56.0	112	74-120	
1,3-Dichloropropane	ug/L	50	57.0	114	80-127	
1,4-Dichlorobenzene	ug/L	50	54.6	109	72-118	
2,2-Dichloropropane	ug/L	50	47.7	95	41-145	
2-Butanone (MEK)	ug/L	250	295	118	61-150	
2-Chlorotoluene	ug/L	50	52.9	106	77-119	
2-Hexanone	ug/L	250	302	121	67-141	
4-Chlorotoluene	ug/L	50	58.0	116	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	256	103	71-131	
Acetone	ug/L	250	375	150	39-166	
Acrolein	ug/L	1000	1400	140	22-200	
Acrylonitrile	ug/L	200	237	118	62-130	
Benzene	ug/L	50	53.1	106	79-120	
Bromobenzene	ug/L	50	51.1	102	76-121	
Bromochloromethane	ug/L	50	51.9	104	69-136	
Bromodichloromethane	ug/L	50	49.8	100	76-125	
Bromoform	ug/L	50	52.7	105	69-119	
Bromomethane	ug/L	50	46.6	93	27-161	
Carbon disulfide	ug/L	50	57.1	114	60-130	
Carbon tetrachloride	ug/L	50	48.2	96	74-132	
Chlorobenzene	ug/L	50	54.5	109	77-116	
Chloroethane	ug/L	50	48.6	97	51-132	
Chloroform	ug/L	50	49.4	99	76-118	
Chloromethane	ug/L	50	50.5	101	46-126	
cis-1,2-Dichloroethene	ug/L	50	51.8	104	74-126	
cis-1,3-Dichloropropene	ug/L	50	53.7	107	78-125	
Dibromochloromethane	ug/L	50	56.1	112	80-123	
Dibromomethane	ug/L	50	51.1	102	75-124	
Dichlorodifluoromethane	ug/L	50	51.8	104	42-152	
Ethyl methacrylate	ug/L	200	212	106	75-136	
Ethylbenzene	ug/L	50	52.0	104	80-123	
Hexachloro-1,3-butadiene	ug/L	50	58.4	117	74-127	
Iodomethane	ug/L	100	132	132	43-156	
Isopropylbenzene (Cumene)	ug/L	50	54.4	109	80-122	
Methyl-tert-butyl ether	ug/L	50	46.0	92	63-131	
Methylene Chloride	ug/L	50	68.3	137	62-126 L1	
n-Butylbenzene	ug/L	50	55.0	110	75-123	
n-Hexane	ug/L	50	48.8	98	66-129	
n-Propylbenzene	ug/L	50	54.2	108	79-128	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1921667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	55.0	110	66-130	
p-Isopropyltoluene	ug/L	50	54.7	109	79-124	
sec-Butylbenzene	ug/L	50	56.0	112	80-126	
Styrene	ug/L	50	53.2	106	81-125	
tert-Butylbenzene	ug/L	50	45.0	90	62-106	
Tetrachloroethene	ug/L	50	54.6	109	74-119	
Toluene	ug/L	50	51.5	103	77-117	
trans-1,2-Dichloroethene	ug/L	50	55.0	110	74-128	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	204	102	42-134	
Trichloroethene	ug/L	50	51.9	104	75-119	
Trichlorofluoromethane	ug/L	50	46.6	93	57-152	
Vinyl acetate	ug/L	200	195	97	71-148	
Vinyl chloride	ug/L	50	57.9	116	62-137	
Xylene (Total)	ug/L	150	157	104	79-121	
4-Bromofluorobenzene (S)	%			104	84-113	
Dibromofluoromethane (S)	%			99	86-116	
Toluene-d8 (S)	%			101	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921668 1921669

Parameter	Units	50185017002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	60.1	57.4	120	115	48-143	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	52.1	50.5	104	101	52-142	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	61.0	58.2	122	116	48-143	5	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	57.1	55.7	114	111	51-139	3	20	
1,1-Dichloroethane	ug/L	ND	50	50	57.9	56.4	116	113	53-139	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	59.5	55.2	119	110	50-149	8	20	
1,1-Dichloropropene	ug/L	ND	50	50	58.1	53.4	116	107	52-145	9	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	58.0	55.4	116	111	30-144	5	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	64.1	63.5	128	127	49-149	1	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	55.3	50.9	111	102	24-146	8	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	53.4	48.5	107	97	33-150	10	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	62.5	61.4	125	123	54-141	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	57.4	54.1	115	108	33-142	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	52.5	48.9	105	98	47-138	7	20	
1,2-Dichloropropane	ug/L	ND	50	50	61.5	59.1	123	118	55-142	4	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	53.3	48.5	107	97	31-150	10	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	54.3	49.7	109	99	27-145	9	20	
1,3-Dichloropropane	ug/L	ND	50	50	65.4	61.4	131	123	55-145	6	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	52.8	49.0	106	98	27-140	7	20	
2,2-Dichloropropane	ug/L	ND	50	50	51.9	49.9	104	100	23-144	4	20	
2-Butanone (MEK)	ug/L	ND	250	250	304	272	122	109	39-159	11	20	
2-Chlorotoluene	ug/L	ND	50	50	54.2	49.9	108	100	31-148	8	20	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921668 1921669											
Parameter	Units	50185017002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Hexanone	ug/L	ND	250	250	343	306	137	122	47-151	11	20
4-Chlorotoluene	ug/L	ND	50	50	55.3	52.7	111	105	30-148	5	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	293	268	117	107	48-146	9	20
Acetone	ug/L	ND	250	250	282	275	113	110	31-152	2	20
Acrolein	ug/L	ND	1000	1000	1330	1230	133	123	23-200	8	20
Acrylonitrile	ug/L	ND	200	200	269	238	135	119	42-143	12	20
Benzene	ug/L	ND	50	50	60.0	57.3	120	115	57-136	5	20
Bromobenzene	ug/L	ND	50	50	55.5	50.0	111	100	45-138	10	20
Bromochloromethane	ug/L	ND	50	50	60.4	58.3	121	117	50-145	4	20
Bromodichloromethane	ug/L	ND	50	50	55.9	52.4	112	105	49-142	6	20
Bromoform	ug/L	ND	50	50	55.3	54.7	111	109	39-131	1	20
Bromomethane	ug/L	ND	50	50	41.8	43.8	84	88	10-162	5	20
Carbon disulfide	ug/L	ND	50	50	61.3	59.2	123	118	34-142	4	20
Carbon tetrachloride	ug/L	ND	50	50	52.6	50.6	105	101	47-150	4	20
Chlorobenzene	ug/L	ND	50	50	58.9	53.7	118	107	42-138	9	20
Chloroethane	ug/L	ND	50	50	52.7	51.8	105	104	34-148	2	20
Chloroform	ug/L	ND	50	50	54.4	51.9	109	104	54-136	5	20
Chloromethane	ug/L	ND	50	50	53.3	51.0	107	102	27-138	4	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	59.1	53.8	118	108	48-147	10	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	60.1	58.7	120	117	40-142	2	20
Dibromochloromethane	ug/L	ND	50	50	60.9	59.3	122	119	46-143	3	20
Dibromomethane	ug/L	ND	50	50	59.3	57.1	119	114	53-140	4	20
Dichlorodifluoromethane	ug/L	ND	50	50	55.4	55.0	111	110	23-169	1	20
Ethyl methacrylate	ug/L	ND	200	200	249	232	125	116	54-149	7	20
Ethylbenzene	ug/L	ND	50	50	55.0	50.5	110	101	40-147	9	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	51.8	41.6	104	83	19-156	22	20 R1
Iodomethane	ug/L	ND	100	100	124	129	124	129	13-136	4	20
Isopropylbenzene (Cumene)	ug/L	ND	50	50	56.8	50.7	114	101	37-151	11	20
Methyl-tert-butyl ether	ug/L	ND	50	50	56.1	51.9	112	104	46-147	8	20
Methylene Chloride	ug/L	15.4	50	50	71.7	69.4	112	108	40-138	3	20
n-Butylbenzene	ug/L	ND	50	50	49.5	41.8	99	84	21-155	17	20
n-Hexane	ug/L	ND	50	50	53.5	51.7	107	103	50-137	3	20
n-Propylbenzene	ug/L	ND	50	50	53.2	47.1	106	94	29-158	12	20
Naphthalene	ug/L	ND	50	50	58.5	55.7	117	111	43-139	5	20
p-Isopropyltoluene	ug/L	ND	50	50	51.3	45.3	103	91	25-156	13	20
sec-Butylbenzene	ug/L	ND	50	50	53.0	46.9	106	94	27-159	12	20
Styrene	ug/L	ND	50	50	57.6	52.5	115	105	34-149	9	20
tert-Butylbenzene	ug/L	ND	50	50	43.1	39.3	86	79	25-128	9	20
Tetrachloroethene	ug/L	ND	50	50	56.0	54.3	112	109	37-144	3	20
Toluene	ug/L	ND	50	50	56.9	53.5	114	107	46-137	6	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	59.9	57.0	120	114	51-145	5	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	59.8	56.1	120	112	41-143	6	20
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	231	212	115	106	10-145	8	20
Trichloroethene	ug/L	ND	50	50	59.0	55.0	118	110	45-139	7	20
Trichlorofluoromethane	ug/L	ND	50	50	49.9	48.7	100	97	42-164	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921668 1921669												
Parameter	Units	50185017002		MS	MSD	MS		MS	MSD	% Rec	Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Vinyl acetate	ug/L	ND	200	200	200	213	195	107	98	10-149	9	20
Vinyl chloride	ug/L	ND	50	50	50	61.2	59.3	122	119	43-154	3	20
Xylene (Total)	ug/L	ND	150	150	150	165	149	110	99	37-146	10	20
4-Bromofluorobenzene (S)	%.							99	98	84-113		
Dibromofluoromethane (S)	%.							99	96	86-116		
Toluene-d8 (S)	%.							99	99	86-111		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch:	417288	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016, 50185017017, 50185017018		

METHOD BLANK: 1921698

Matrix: Water

Associated Lab Samples: 50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016, 50185017017, 50185017018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/29/17 02:16	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/29/17 02:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/29/17 02:16	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/29/17 02:16	
1,1-Dichloroethane	ug/L	ND	5.0	11/29/17 02:16	
1,1-Dichloroethene	ug/L	ND	5.0	11/29/17 02:16	
1,1-Dichloropropene	ug/L	ND	5.0	11/29/17 02:16	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/29/17 02:16	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/29/17 02:16	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/29/17 02:16	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/29/17 02:16	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/29/17 02:16	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/29/17 02:16	
1,2-Dichloroethane	ug/L	ND	5.0	11/29/17 02:16	
1,2-Dichloropropane	ug/L	ND	5.0	11/29/17 02:16	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/29/17 02:16	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/29/17 02:16	
1,3-Dichloropropane	ug/L	ND	5.0	11/29/17 02:16	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/29/17 02:16	
2,2-Dichloropropane	ug/L	ND	5.0	11/29/17 02:16	
2-Butanone (MEK)	ug/L	ND	25.0	11/29/17 02:16	
2-Chlorotoluene	ug/L	ND	5.0	11/29/17 02:16	
2-Hexanone	ug/L	ND	25.0	11/29/17 02:16	
4-Chlorotoluene	ug/L	ND	5.0	11/29/17 02:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/29/17 02:16	
Acetone	ug/L	ND	100	11/29/17 02:16	
Acrolein	ug/L	ND	50.0	11/29/17 02:16	
Acrylonitrile	ug/L	ND	100	11/29/17 02:16	
Benzene	ug/L	ND	5.0	11/29/17 02:16	
Bromobenzene	ug/L	ND	5.0	11/29/17 02:16	
Bromochloromethane	ug/L	ND	5.0	11/29/17 02:16	
Bromodichloromethane	ug/L	ND	5.0	11/29/17 02:16	
Bromoform	ug/L	ND	5.0	11/29/17 02:16	
Bromomethane	ug/L	ND	5.0	11/29/17 02:16	
Carbon disulfide	ug/L	ND	10.0	11/29/17 02:16	
Carbon tetrachloride	ug/L	ND	5.0	11/29/17 02:16	
Chlorobenzene	ug/L	ND	5.0	11/29/17 02:16	
Chloroethane	ug/L	ND	5.0	11/29/17 02:16	
Chloroform	ug/L	ND	5.0	11/29/17 02:16	
Chloromethane	ug/L	ND	5.0	11/29/17 02:16	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

METHOD BLANK: 1921698

Matrix: Water

Associated Lab Samples: 50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016, 50185017017, 50185017018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/29/17 02:16	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/29/17 02:16	
Dibromochloromethane	ug/L	ND	5.0	11/29/17 02:16	
Dibromomethane	ug/L	ND	5.0	11/29/17 02:16	
Dichlorodifluoromethane	ug/L	ND	5.0	11/29/17 02:16	
Ethyl methacrylate	ug/L	ND	100	11/29/17 02:16	
Ethylbenzene	ug/L	ND	5.0	11/29/17 02:16	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/29/17 02:16	
Iodomethane	ug/L	ND	10.0	11/29/17 02:16	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/29/17 02:16	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/29/17 02:16	
Methylene Chloride	ug/L	8.7	5.0	11/29/17 02:16	
n-Butylbenzene	ug/L	ND	5.0	11/29/17 02:16	
n-Hexane	ug/L	ND	5.0	11/29/17 02:16	
n-Propylbenzene	ug/L	ND	5.0	11/29/17 02:16	
Naphthalene	ug/L	ND	5.0	11/29/17 02:16	
p-Isopropyltoluene	ug/L	ND	5.0	11/29/17 02:16	
sec-Butylbenzene	ug/L	ND	5.0	11/29/17 02:16	
Styrene	ug/L	ND	5.0	11/29/17 02:16	
tert-Butylbenzene	ug/L	ND	5.0	11/29/17 02:16	
Tetrachloroethene	ug/L	ND	5.0	11/29/17 02:16	
Toluene	ug/L	ND	5.0	11/29/17 02:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/29/17 02:16	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/29/17 02:16	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/29/17 02:16	
Trichloroethene	ug/L	ND	5.0	11/29/17 02:16	
Trichlorofluoromethane	ug/L	ND	5.0	11/29/17 02:16	
Vinyl acetate	ug/L	ND	50.0	11/29/17 02:16	
Vinyl chloride	ug/L	ND	2.0	11/29/17 02:16	
Xylene (Total)	ug/L	ND	10.0	11/29/17 02:16	
4-Bromofluorobenzene (S)	%	97	84-113	11/29/17 02:16	
Dibromofluoromethane (S)	%	101	86-116	11/29/17 02:16	
Toluene-d8 (S)	%	97	86-111	11/29/17 02:16	

LABORATORY CONTROL SAMPLE: 1921699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.3	91	80-123	
1,1,1-Trichloroethane	ug/L	50	37.0	74	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	74-124	
1,1,2-Trichloroethane	ug/L	50	41.9	84	79-121	
1,1-Dichloroethane	ug/L	50	40.2	80	77-122	
1,1-Dichloroethene	ug/L	50	42.6	85	70-131	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1921699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	41.4	83	79-124	
1,2,3-Trichlorobenzene	ug/L	50	44.1	88	70-129	
1,2,3-Trichloropropane	ug/L	50	49.0	98	79-128	
1,2,4-Trichlorobenzene	ug/L	50	42.8	86	69-129	
1,2,4-Trimethylbenzene	ug/L	50	42.0	84	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	45.8	92	81-123	
1,2-Dichlorobenzene	ug/L	50	43.2	86	77-118	
1,2-Dichloroethane	ug/L	50	37.4	75	72-119	
1,2-Dichloropropane	ug/L	50	45.9	92	78-125	
1,3,5-Trimethylbenzene	ug/L	50	42.8	86	79-123	
1,3-Dichlorobenzene	ug/L	50	43.1	86	74-120	
1,3-Dichloropropane	ug/L	50	46.6	93	80-127	
1,4-Dichlorobenzene	ug/L	50	41.7	83	72-118	
2,2-Dichloropropane	ug/L	50	36.0	72	41-145	
2-Butanone (MEK)	ug/L	250	232	93	61-150	
2-Chlorotoluene	ug/L	50	42.4	85	77-119	
2-Hexanone	ug/L	250	225	90	67-141	
4-Chlorotoluene	ug/L	50	42.8	86	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	219	87	71-131	
Acetone	ug/L	250	197	79	39-166	
Acrolein	ug/L	1000	1110	111	22-200	
Acrylonitrile	ug/L	200	194	97	62-130	
Benzene	ug/L	50	43.3	87	79-120	
Bromobenzene	ug/L	50	42.8	86	76-121	
Bromochloromethane	ug/L	50	42.7	85	69-136	
Bromodichloromethane	ug/L	50	38.4	77	76-125	
Bromoform	ug/L	50	47.4	95	69-119	
Bromomethane	ug/L	50	37.7	75	27-161	
Carbon disulfide	ug/L	50	43.4	87	60-130	
Carbon tetrachloride	ug/L	50	37.7	75	74-132	
Chlorobenzene	ug/L	50	44.0	88	77-116	
Chloroethane	ug/L	50	39.8	80	51-132	
Chloroform	ug/L	50	38.7	77	76-118	
Chloromethane	ug/L	50	40.9	82	46-126	
cis-1,2-Dichloroethene	ug/L	50	41.5	83	74-126	
cis-1,3-Dichloropropene	ug/L	50	41.4	83	78-125	
Dibromochloromethane	ug/L	50	44.9	90	80-123	
Dibromomethane	ug/L	50	42.5	85	75-124	
Dichlorodifluoromethane	ug/L	50	40.9	82	42-152	
Ethyl methacrylate	ug/L	200	176	88	75-136	
Ethylbenzene	ug/L	50	39.6	79	80-123	L2
Hexachloro-1,3-butadiene	ug/L	50	44.5	89	74-127	
Iodomethane	ug/L	100	91.7	92	43-156	
Isopropylbenzene (Cumene)	ug/L	50	44.5	89	80-122	
Methyl-tert-butyl ether	ug/L	50	43.4	87	63-131	
Methylene Chloride	ug/L	50	49.8	100	62-126	
n-Butylbenzene	ug/L	50	40.4	81	75-123	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1921699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Hexane	ug/L	50	39.4	79	66-129	
n-Propylbenzene	ug/L	50	42.6	85	79-128	
Naphthalene	ug/L	50	44.3	89	66-130	
p-Isopropyltoluene	ug/L	50	42.7	85	79-124	
sec-Butylbenzene	ug/L	50	42.6	85	80-126	
Styrene	ug/L	50	42.8	86	81-125	
tert-Butylbenzene	ug/L	50	34.9	70	62-106	
Tetrachloroethene	ug/L	50	40.9	82	74-119	
Toluene	ug/L	50	41.7	83	77-117	
trans-1,2-Dichloroethene	ug/L	50	41.1	82	74-128	
trans-1,3-Dichloropropene	ug/L	50	41.6	83	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	166	83	42-134	
Trichloroethene	ug/L	50	40.3	81	75-119	
Trichlorofluoromethane	ug/L	50	41.3	83	57-152	
Vinyl acetate	ug/L	200	172	86	71-148	
Vinyl chloride	ug/L	50	44.7	89	62-137	
Xylene (Total)	ug/L	150	124	83	79-121	
4-Bromofluorobenzene (S)	%			100	84-113	
Dibromofluoromethane (S)	%			97	86-116	
Toluene-d8 (S)	%			98	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921700 1921701

Parameter	Units	50185017015		MS		MSD		MS		MSD		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec	Limits	RPD	RPD	RPD	Limits	RPD	RPD	RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50	43.3	41.4	87	83	48-143	4	20								
1,1,1-Trichloroethane	ug/L	ND	50	50	50	40.4	36.4	81	73	52-142	10	20								
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50	50.7	49.4	101	99	48-143	3	20								
1,1,2-Trichloroethane	ug/L	ND	50	50	50	42.8	43.1	86	86	51-139	1	20								
1,1-Dichloroethane	ug/L	ND	50	50	50	45.3	43.0	91	86	53-139	5	20								
1,1-Dichloroethene	ug/L	ND	50	50	50	47.9	44.4	96	89	50-149	8	20								
1,1-Dichloropropene	ug/L	ND	50	50	50	40.8	36.6	82	73	52-145	11	20								
1,2,3-Trichlorobenzene	ug/L	ND	50	50	50	30.2	28.9	60	58	30-144	4	20								
1,2,3-Trichloropropane	ug/L	ND	50	50	50	51.5	52.3	103	105	49-149	1	20								
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50	27.8	24.7	56	49	24-146	12	20								
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50	26.2	22.5	52	45	33-150	15	20								
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50	49.1	49.6	98	99	54-141	1	20								
1,2-Dichlorobenzene	ug/L	ND	50	50	50	31.6	29.9	63	60	33-142	6	20								
1,2-Dichloroethane	ug/L	ND	50	50	50	42.1	41.0	84	82	47-138	3	20								
1,2-Dichloropropane	ug/L	ND	50	50	50	48.6	47.8	97	96	55-142	2	20								
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50	26.4	22.5	53	45	31-150	16	20								
1,3-Dichlorobenzene	ug/L	ND	50	50	50	28.3	26.5	57	53	27-145	6	20								
1,3-Dichloropropane	ug/L	ND	50	50	50	50.5	50.3	101	101	55-145	0	20								
1,4-Dichlorobenzene	ug/L	ND	50	50	50	28.1	25.4	56	51	27-140	10	20								
2,2-Dichloropropane	ug/L	ND	50	50	50	39.2	36.7	78	73	23-144	7	20								

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1921700		1921701								
Parameter	Units	50185017015	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max	Qual
		Result	Spike	Spike									
2-Butanone (MEK)	ug/L	ND	250	250	259	263	103	105	39-159	2	20		
2-Chlorotoluene	ug/L	ND	50	50	29.2	24.9	58	50	31-148	16	20		
2-Hexanone	ug/L	ND	250	250	254	260	101	104	47-151	3	20		
4-Chlorotoluene	ug/L	ND	50	50	28.6	25.2	57	50	30-148	13	20		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	251	250	101	100	48-146	1	20		
Acetone	ug/L	ND	250	250	222	241	89	97	31-152	8	20		
Acrolein	ug/L	ND	1000	1000	994	1010	99	101	23-200	1	20		
Acrylonitrile	ug/L	ND	200	200	221	228	111	114	42-143	3	20		
Benzene	ug/L	ND	50	50	45.0	42.3	90	85	57-136	6	20		
Bromobenzene	ug/L	ND	50	50	34.8	33.1	70	66	45-138	5	20		
Bromochloromethane	ug/L	ND	50	50	47.4	45.6	95	91	50-145	4	20		
Bromodichloromethane	ug/L	ND	50	50	41.1	39.3	82	79	49-142	4	20		
Bromoform	ug/L	ND	50	50	51.0	47.0	102	94	39-131	8	20		
Bromomethane	ug/L	ND	50	50	43.5	43.5	87	87	10-162	0	20		
Carbon disulfide	ug/L	ND	50	50	45.2	41.8	90	84	34-142	8	20		
Carbon tetrachloride	ug/L	ND	50	50	41.0	37.7	82	75	47-150	8	20		
Chlorobenzene	ug/L	ND	50	50	37.1	33.9	74	68	42-138	9	20		
Chloroethane	ug/L	ND	50	50	48.9	45.8	98	92	34-148	7	20		
Chloroform	ug/L	ND	50	50	44.0	40.9	88	82	54-136	7	20		
Chloromethane	ug/L	ND	50	50	49.0	47.4	98	95	27-138	3	20		
cis-1,2-Dichloroethene	ug/L	13.1	50	50	56.7	52.2	87	78	48-147	8	20		
cis-1,3-Dichloropropene	ug/L	ND	50	50	42.6	41.4	85	83	40-142	3	20		
Dibromochloromethane	ug/L	ND	50	50	49.0	47.2	98	94	46-143	4	20		
Dibromomethane	ug/L	ND	50	50	46.8	45.5	94	91	53-140	3	20		
Dichlorodifluoromethane	ug/L	ND	50	50	50.4	45.2	101	90	23-169	11	20		
Ethyl methacrylate	ug/L	ND	200	200	195	199	97	99	54-149	2	20		
Ethylbenzene	ug/L	ND	50	50	30.6	27.5	61	55	40-147	11	20		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	15.9	11.2	32	22	19-156	34	20	R1	
Iodomethane	ug/L	ND	100	100	107	99.3	107	99	13-136	7	20		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	30.9	27.3	62	55	37-151	13	20		
Methyl-tert-butyl ether	ug/L	ND	50	50	50.9	50.9	102	102	46-147	0	20		
Methylene Chloride	ug/L	ND	50	50	60.7	56.7	112	104	40-138	7	20		
n-Butylbenzene	ug/L	ND	50	50	18.2	14.1	36	28	21-155	25	20	R1	
n-Hexane	ug/L	ND	50	50	42.3	38.0	85	76	50-137	11	20		
n-Propylbenzene	ug/L	ND	50	50	25.3	20.9	51	42	29-158	19	20		
Naphthalene	ug/L	ND	50	50	39.0	39.2	78	78	43-139	0	20		
p-Isopropyltoluene	ug/L	ND	50	50	21.8	17.2	44	34	25-156	24	20	R1	
sec-Butylbenzene	ug/L	ND	50	50	23.5	18.9	47	38	27-159	21	20	R1	
Styrene	ug/L	ND	50	50	32.6	31.0	65	62	34-149	5	20		
tert-Butylbenzene	ug/L	ND	50	50	22.6	18.4	45	37	25-128	21	20	R1	
Tetrachloroethene	ug/L	260	50	50	208	201	-104	-118	37-144	3	20	M1	
Toluene	ug/L	ND	50	50	38.4	35.3	77	71	46-137	9	20		
trans-1,2-Dichloroethene	ug/L	ND	50	50	44.3	40.7	89	81	51-145	9	20		
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.3	41.7	85	83	41-143	1	20		
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	169	175	85	87	10-145	3	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921700 1921701												
Parameter	Units	50185017015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Trichloroethene	ug/L	12.3	50	50	47.8	46.0	71	67	45-139	4	20	
Trichlorofluoromethane	ug/L	ND	50	50	48.2	43.4	96	87	42-164	10	20	
Vinyl acetate	ug/L	ND	200	200	150	148	75	74	10-149	1	20	
Vinyl chloride	ug/L	ND	50	50	52.8	50.5	104	99	43-154	4	20	
Xylene (Total)	ug/L	ND	150	150	94.6	85.5	63	57	37-146	10	20	
4-Bromofluorobenzene (S)	%.						100	102	84-113			
Dibromofluoromethane (S)	%.						94	95	86-116			
Toluene-d8 (S)	%.						98	98	86-111			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch: 417499

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50185017006

METHOD BLANK: 1922774

Matrix: Water

Associated Lab Samples: 50185017006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/29/17 17:45	M5
1,1,1-Trichloroethane	ug/L	ND	5.0	11/29/17 17:45	M5
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/29/17 17:45	M5
1,1,2-Trichloroethane	ug/L	ND	5.0	11/29/17 17:45	M5
1,1-Dichloroethane	ug/L	ND	5.0	11/29/17 17:45	M5
1,1-Dichloroethene	ug/L	ND	5.0	11/29/17 17:45	M5
1,1-Dichloropropene	ug/L	ND	5.0	11/29/17 17:45	M5
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/29/17 17:45	M5
1,2,3-Trichloropropane	ug/L	ND	5.0	11/29/17 17:45	M5
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/29/17 17:45	M5
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/29/17 17:45	M5
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/29/17 17:45	M5
1,2-Dichlorobenzene	ug/L	ND	5.0	11/29/17 17:45	M5
1,2-Dichloroethane	ug/L	ND	5.0	11/29/17 17:45	M5
1,2-Dichloropropane	ug/L	ND	5.0	11/29/17 17:45	M5
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/29/17 17:45	M5
1,3-Dichlorobenzene	ug/L	ND	5.0	11/29/17 17:45	M5
1,3-Dichloropropane	ug/L	ND	5.0	11/29/17 17:45	M5
1,4-Dichlorobenzene	ug/L	ND	5.0	11/29/17 17:45	M5
2,2-Dichloropropane	ug/L	ND	5.0	11/29/17 17:45	M5
2-Butanone (MEK)	ug/L	ND	25.0	11/29/17 17:45	M5
2-Chlorotoluene	ug/L	ND	5.0	11/29/17 17:45	M5
2-Hexanone	ug/L	ND	25.0	11/29/17 17:45	M5
4-Chlorotoluene	ug/L	ND	5.0	11/29/17 17:45	M5
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/29/17 17:45	M5
Acetone	ug/L	ND	100	11/29/17 17:45	M5
Acrolein	ug/L	ND	50.0	11/29/17 17:45	M5
Acrylonitrile	ug/L	ND	100	11/29/17 17:45	M5
Benzene	ug/L	ND	5.0	11/29/17 17:45	M5
Bromobenzene	ug/L	ND	5.0	11/29/17 17:45	M5
Bromochloromethane	ug/L	ND	5.0	11/29/17 17:45	M5
Bromodichloromethane	ug/L	ND	5.0	11/29/17 17:45	M5
Bromoform	ug/L	ND	5.0	11/29/17 17:45	M5
Bromomethane	ug/L	ND	5.0	11/29/17 17:45	M5
Carbon disulfide	ug/L	ND	10.0	11/29/17 17:45	M5
Carbon tetrachloride	ug/L	ND	5.0	11/29/17 17:45	M5
Chlorobenzene	ug/L	ND	5.0	11/29/17 17:45	M5
Chloroethane	ug/L	ND	5.0	11/29/17 17:45	M5
Chloroform	ug/L	ND	5.0	11/29/17 17:45	M5
Chloromethane	ug/L	ND	5.0	11/29/17 17:45	M5
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/29/17 17:45	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

METHOD BLANK: 1922774

Matrix: Water

Associated Lab Samples: 50185017006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/29/17 17:45	M5
Dibromochloromethane	ug/L	ND	5.0	11/29/17 17:45	M5
Dibromomethane	ug/L	ND	5.0	11/29/17 17:45	M5
Dichlorodifluoromethane	ug/L	ND	5.0	11/29/17 17:45	M5
Ethyl methacrylate	ug/L	ND	100	11/29/17 17:45	M5
Ethylbenzene	ug/L	ND	5.0	11/29/17 17:45	M5
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/29/17 17:45	M5
Iodomethane	ug/L	ND	10.0	11/29/17 17:45	M5
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/29/17 17:45	M5
Methyl-tert-butyl ether	ug/L	ND	4.0	11/29/17 17:45	M5
Methylene Chloride	ug/L	15.0	5.0	11/29/17 17:45	M5
n-Butylbenzene	ug/L	ND	5.0	11/29/17 17:45	M5
n-Hexane	ug/L	ND	5.0	11/29/17 17:45	M5
n-Propylbenzene	ug/L	ND	5.0	11/29/17 17:45	M5
Naphthalene	ug/L	ND	5.0	11/29/17 17:45	M5
p-Isopropyltoluene	ug/L	ND	5.0	11/29/17 17:45	M5
sec-Butylbenzene	ug/L	ND	5.0	11/29/17 17:45	M5
Styrene	ug/L	ND	5.0	11/29/17 17:45	M5
tert-Butylbenzene	ug/L	ND	5.0	11/29/17 17:45	M5
Tetrachloroethene	ug/L	ND	5.0	11/29/17 17:45	M5
Toluene	ug/L	ND	5.0	11/29/17 17:45	M5
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/29/17 17:45	M5
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/29/17 17:45	M5
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/29/17 17:45	M5
Trichloroethene	ug/L	ND	5.0	11/29/17 17:45	M5
Trichlorofluoromethane	ug/L	ND	5.0	11/29/17 17:45	M5
Vinyl acetate	ug/L	ND	50.0	11/29/17 17:45	M5
Vinyl chloride	ug/L	ND	2.0	11/29/17 17:45	M5
Xylene (Total)	ug/L	ND	10.0	11/29/17 17:45	M5
4-Bromofluorobenzene (S)	%	96	84-113	11/29/17 17:45	M5
Dibromofluoromethane (S)	%	103	86-116	11/29/17 17:45	M5
Toluene-d8 (S)	%	97	86-111	11/29/17 17:45	M5

LABORATORY CONTROL SAMPLE: 1922775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	80-123	M5
1,1,1-Trichloroethane	ug/L	50	43.0	86	72-126	M5
1,1,2,2-Tetrachloroethane	ug/L	50	52.4	105	74-124	M5
1,1,2-Trichloroethane	ug/L	50	44.8	90	79-121	M5
1,1-Dichloroethane	ug/L	50	46.1	92	77-122	M5
1,1-Dichloroethene	ug/L	50	49.8	100	70-131	M5
1,1-Dichloropropene	ug/L	50	46.4	93	79-124	M5
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	70-129	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1922775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	50.9	102	79-128	M5
1,2,4-Trichlorobenzene	ug/L	50	52.3	105	69-129	M5
1,2,4-Trimethylbenzene	ug/L	50	49.1	98	76-125	M5
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	81-123	M5
1,2-Dichlorobenzene	ug/L	50	49.3	99	77-118	M5
1,2-Dichloroethane	ug/L	50	41.4	83	72-119	M5
1,2-Dichloropropane	ug/L	50	51.1	102	78-125	M5
1,3,5-Trimethylbenzene	ug/L	50	49.5	99	79-123	M5
1,3-Dichlorobenzene	ug/L	50	49.9	100	74-120	M5
1,3-Dichloropropane	ug/L	50	50.8	102	80-127	M5
1,4-Dichlorobenzene	ug/L	50	50.3	101	72-118	M5
2,2-Dichloropropane	ug/L	50	42.3	85	41-145	M5
2-Butanone (MEK)	ug/L	250	262	105	61-150	M5
2-Chlorotoluene	ug/L	50	47.9	96	77-119	M5
2-Hexanone	ug/L	250	248	99	67-141	M5
4-Chlorotoluene	ug/L	50	51.2	102	75-123	M5
4-Methyl-2-pentanone (MIBK)	ug/L	250	227	91	71-131	M5
Acetone	ug/L	250	327	131	39-166	M5
Acrolein	ug/L	1000	1300	130	22-200	M5
Acrylonitrile	ug/L	200	210	105	62-130	M5
Benzene	ug/L	50	48.9	98	79-120	M5
Bromobenzene	ug/L	50	47.5	95	76-121	M5
Bromochloromethane	ug/L	50	48.8	98	69-136	M5
Bromodichloromethane	ug/L	50	42.0	84	76-125	M5
Bromoform	ug/L	50	51.1	102	69-119	M5
Bromomethane	ug/L	50	43.9	88	27-161	M5
Carbon disulfide	ug/L	50	50.4	101	60-130	M5
Carbon tetrachloride	ug/L	50	43.5	87	74-132	M5
Chlorobenzene	ug/L	50	48.9	98	77-116	M5
Chloroethane	ug/L	50	47.7	95	51-132	M5
Chloroform	ug/L	50	43.6	87	76-118	M5
Chloromethane	ug/L	50	48.6	97	46-126	M5
cis-1,2-Dichloroethene	ug/L	50	46.7	93	74-126	M5
cis-1,3-Dichloropropene	ug/L	50	47.3	95	78-125	M5
Dibromochloromethane	ug/L	50	49.7	99	80-123	M5
Dibromomethane	ug/L	50	46.8	94	75-124	M5
Dichlorodifluoromethane	ug/L	50	47.2	94	42-152	M5
Ethyl methacrylate	ug/L	200	191	95	75-136	M5
Ethylbenzene	ug/L	50	46.7	93	80-123	M5
Hexachloro-1,3-butadiene	ug/L	50	49.3	99	74-127	M5
Iodomethane	ug/L	100	108	108	43-156	M5
Isopropylbenzene (Cumene)	ug/L	50	51.7	103	80-122	M5
Methyl-tert-butyl ether	ug/L	50	46.7	93	63-131	M5
Methylene Chloride	ug/L	50	62.9	126	62-126	M5
n-Butylbenzene	ug/L	50	48.5	97	75-123	M5
n-Hexane	ug/L	50	45.8	92	66-129	M5
n-Propylbenzene	ug/L	50	50.3	101	79-128	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1922775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	48.7	97	66-130	M5
p-Isopropyltoluene	ug/L	50	50.0	100	79-124	M5
sec-Butylbenzene	ug/L	50	49.6	99	80-126	M5
Styrene	ug/L	50	48.8	98	81-125	M5
tert-Butylbenzene	ug/L	50	40.7	81	62-106	M5
Tetrachloroethene	ug/L	50	47.5	95	74-119	M5
Toluene	ug/L	50	46.6	93	77-117	M5
trans-1,2-Dichloroethene	ug/L	50	48.4	97	74-128	M5
trans-1,3-Dichloropropene	ug/L	50	46.4	93	75-132	M5
trans-1,4-Dichloro-2-butene	ug/L	200	191	95	42-134	M5
Trichloroethene	ug/L	50	47.5	95	75-119	M5
Trichlorofluoromethane	ug/L	50	46.6	93	57-152	M5
Vinyl acetate	ug/L	200	191	96	71-148	M5
Vinyl chloride	ug/L	50	51.8	104	62-137	M5
Xylene (Total)	ug/L	150	144	96	79-121	M5
4-Bromofluorobenzene (S)	%.			98	84-113	M5
Dibromofluoromethane (S)	%.			92	86-116	M5
Toluene-d8 (S)	%.			95	86-111	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch: 417503

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50185017019

METHOD BLANK: 1922799

Matrix: Water

Associated Lab Samples: 50185017019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/30/17 06:00	M5
1,1,1-Trichloroethane	ug/L	ND	5.0	11/30/17 06:00	M5
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/30/17 06:00	M5
1,1,2-Trichloroethane	ug/L	ND	5.0	11/30/17 06:00	M5
1,1-Dichloroethane	ug/L	ND	5.0	11/30/17 06:00	M5
1,1-Dichloroethene	ug/L	ND	5.0	11/30/17 06:00	M5
1,1-Dichloropropene	ug/L	ND	5.0	11/30/17 06:00	M5
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/30/17 06:00	M5
1,2,3-Trichloropropane	ug/L	ND	5.0	11/30/17 06:00	M5
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/30/17 06:00	M5
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/30/17 06:00	M5
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/30/17 06:00	M5
1,2-Dichlorobenzene	ug/L	ND	5.0	11/30/17 06:00	M5
1,2-Dichloroethane	ug/L	ND	5.0	11/30/17 06:00	M5
1,2-Dichloropropane	ug/L	ND	5.0	11/30/17 06:00	M5
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/30/17 06:00	M5
1,3-Dichlorobenzene	ug/L	ND	5.0	11/30/17 06:00	M5
1,3-Dichloropropane	ug/L	ND	5.0	11/30/17 06:00	M5
1,4-Dichlorobenzene	ug/L	ND	5.0	11/30/17 06:00	M5
2,2-Dichloropropane	ug/L	ND	5.0	11/30/17 06:00	M5
2-Butanone (MEK)	ug/L	ND	25.0	11/30/17 06:00	M5
2-Chlorotoluene	ug/L	ND	5.0	11/30/17 06:00	M5
2-Hexanone	ug/L	ND	25.0	11/30/17 06:00	M5
4-Chlorotoluene	ug/L	ND	5.0	11/30/17 06:00	M5
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/30/17 06:00	M5
Acetone	ug/L	ND	100	11/30/17 06:00	M5
Acrolein	ug/L	ND	50.0	11/30/17 06:00	M5
Acrylonitrile	ug/L	ND	100	11/30/17 06:00	M5
Benzene	ug/L	ND	5.0	11/30/17 06:00	M5
Bromobenzene	ug/L	ND	5.0	11/30/17 06:00	M5
Bromochloromethane	ug/L	ND	5.0	11/30/17 06:00	M5
Bromodichloromethane	ug/L	ND	5.0	11/30/17 06:00	M5
Bromoform	ug/L	ND	5.0	11/30/17 06:00	M5
Bromomethane	ug/L	ND	5.0	11/30/17 06:00	M5
Carbon disulfide	ug/L	ND	10.0	11/30/17 06:00	M5
Carbon tetrachloride	ug/L	ND	5.0	11/30/17 06:00	M5
Chlorobenzene	ug/L	ND	5.0	11/30/17 06:00	M5
Chloroethane	ug/L	ND	5.0	11/30/17 06:00	M5
Chloroform	ug/L	ND	5.0	11/30/17 06:00	M5
Chloromethane	ug/L	ND	5.0	11/30/17 06:00	M5
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/30/17 06:00	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

METHOD BLANK: 1922799

Matrix: Water

Associated Lab Samples: 50185017019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/30/17 06:00	M5
Dibromochloromethane	ug/L	ND	5.0	11/30/17 06:00	M5
Dibromomethane	ug/L	ND	5.0	11/30/17 06:00	M5
Dichlorodifluoromethane	ug/L	ND	5.0	11/30/17 06:00	M5
Ethyl methacrylate	ug/L	ND	100	11/30/17 06:00	M5
Ethylbenzene	ug/L	ND	5.0	11/30/17 06:00	M5
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/30/17 06:00	M5
Iodomethane	ug/L	ND	10.0	11/30/17 06:00	M5
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/30/17 06:00	M5
Methyl-tert-butyl ether	ug/L	ND	4.0	11/30/17 06:00	M5
Methylene Chloride	ug/L	14.1	5.0	11/30/17 06:00	M5
n-Butylbenzene	ug/L	ND	5.0	11/30/17 06:00	M5
n-Hexane	ug/L	ND	5.0	11/30/17 06:00	M5
n-Propylbenzene	ug/L	ND	5.0	11/30/17 06:00	M5
Naphthalene	ug/L	ND	5.0	11/30/17 06:00	M5
p-Isopropyltoluene	ug/L	ND	5.0	11/30/17 06:00	M5
sec-Butylbenzene	ug/L	ND	5.0	11/30/17 06:00	M5
Styrene	ug/L	ND	5.0	11/30/17 06:00	M5
tert-Butylbenzene	ug/L	ND	5.0	11/30/17 06:00	M5
Tetrachloroethene	ug/L	ND	5.0	11/30/17 06:00	M5
Toluene	ug/L	ND	5.0	11/30/17 06:00	M5
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/30/17 06:00	M5
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/30/17 06:00	M5
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/30/17 06:00	M5
Trichloroethene	ug/L	ND	5.0	11/30/17 06:00	M5
Trichlorofluoromethane	ug/L	ND	5.0	11/30/17 06:00	M5
Vinyl acetate	ug/L	ND	50.0	11/30/17 06:00	M5
Vinyl chloride	ug/L	ND	2.0	11/30/17 06:00	M5
Xylene (Total)	ug/L	ND	10.0	11/30/17 06:00	M5
4-Bromofluorobenzene (S)	%	94	84-113	11/30/17 06:00	M5
Dibromofluoromethane (S)	%	100	86-116	11/30/17 06:00	M5
Toluene-d8 (S)	%	97	86-111	11/30/17 06:00	M5

LABORATORY CONTROL SAMPLE: 1922800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	80-123	M5
1,1,1-Trichloroethane	ug/L	50	40.2	80	72-126	M5
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	74-124	M5
1,1,2-Trichloroethane	ug/L	50	43.2	86	79-121	M5
1,1-Dichloroethane	ug/L	50	43.4	87	77-122	M5
1,1-Dichloroethene	ug/L	50	46.7	93	70-131	M5
1,1-Dichloropropene	ug/L	50	43.8	88	79-124	M5
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	70-129	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1922800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	51.4	103	79-128	M5
1,2,4-Trichlorobenzene	ug/L	50	45.8	92	69-129	M5
1,2,4-Trimethylbenzene	ug/L	50	46.2	92	76-125	M5
1,2-Dibromoethane (EDB)	ug/L	50	51.7	103	81-123	M5
1,2-Dichlorobenzene	ug/L	50	47.7	95	77-118	M5
1,2-Dichloroethane	ug/L	50	40.5	81	72-119	M5
1,2-Dichloropropane	ug/L	50	50.6	101	78-125	M5
1,3,5-Trimethylbenzene	ug/L	50	47.6	95	79-123	M5
1,3-Dichlorobenzene	ug/L	50	47.1	94	74-120	M5
1,3-Dichloropropane	ug/L	50	52.0	104	80-127	M5
1,4-Dichlorobenzene	ug/L	50	46.3	93	72-118	M5
2,2-Dichloropropane	ug/L	50	37.9	76	41-145	M5
2-Butanone (MEK)	ug/L	250	235	94	61-150	M5
2-Chlorotoluene	ug/L	50	47.1	94	77-119	M5
2-Hexanone	ug/L	250	234	94	67-141	M5
4-Chlorotoluene	ug/L	50	46.7	93	75-123	M5
4-Methyl-2-pentanone (MIBK)	ug/L	250	227	91	71-131	M5
Acetone	ug/L	250	219	88	39-166	M5
Acrolein	ug/L	1000	1220	122	22-200	M5
Acrylonitrile	ug/L	200	204	102	62-130	M5
Benzene	ug/L	50	48.3	97	79-120	M5
Bromobenzene	ug/L	50	47.3	95	76-121	M5
Bromochloromethane	ug/L	50	47.1	94	69-136	M5
Bromodichloromethane	ug/L	50	42.0	84	76-125	M5
Bromoform	ug/L	50	53.0	106	69-119	M5
Bromomethane	ug/L	50	42.2	84	27-161	M5
Carbon disulfide	ug/L	50	46.7	93	60-130	M5
Carbon tetrachloride	ug/L	50	40.9	82	74-132	M5
Chlorobenzene	ug/L	50	48.9	98	77-116	M5
Chloroethane	ug/L	50	43.0	86	51-132	M5
Chloroform	ug/L	50	43.7	87	76-118	M5
Chloromethane	ug/L	50	43.7	87	46-126	M5
cis-1,2-Dichloroethene	ug/L	50	46.4	93	74-126	M5
cis-1,3-Dichloropropene	ug/L	50	45.3	91	78-125	M5
Dibromochloromethane	ug/L	50	49.4	99	80-123	M5
Dibromomethane	ug/L	50	45.8	92	75-124	M5
Dichlorodifluoromethane	ug/L	50	43.5	87	42-152	M5
Ethyl methacrylate	ug/L	200	192	96	75-136	M5
Ethylbenzene	ug/L	50	45.5	91	80-123	M5
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	74-127	M5
Iodomethane	ug/L	100	105	105	43-156	M5
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	80-122	M5
Methyl-tert-butyl ether	ug/L	50	44.8	90	63-131	M5
Methylene Chloride	ug/L	50	61.9	124	62-126	M5
n-Butylbenzene	ug/L	50	44.0	88	75-123	M5
n-Hexane	ug/L	50	44.0	88	66-129	M5
n-Propylbenzene	ug/L	50	47.7	95	79-128	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1922800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	47.5	95	66-130	M5
p-Isopropyltoluene	ug/L	50	46.6	93	79-124	M5
sec-Butylbenzene	ug/L	50	47.5	95	80-126	M5
Styrene	ug/L	50	48.0	96	81-125	M5
tert-Butylbenzene	ug/L	50	39.7	79	62-106	M5
Tetrachloroethene	ug/L	50	45.4	91	74-119	M5
Toluene	ug/L	50	46.5	93	77-117	M5
trans-1,2-Dichloroethene	ug/L	50	45.5	91	74-128	M5
trans-1,3-Dichloropropene	ug/L	50	44.9	90	75-132	M5
trans-1,4-Dichloro-2-butene	ug/L	200	165	82	42-134	M5
Trichloroethene	ug/L	50	44.8	90	75-119	M5
Trichlorofluoromethane	ug/L	50	43.6	87	57-152	M5
Vinyl acetate	ug/L	200	184	92	71-148	M5
Vinyl chloride	ug/L	50	47.4	95	62-137	M5
Xylene (Total)	ug/L	150	141	94	79-121	M5
4-Bromofluorobenzene (S)	%.			100	84-113	M5
Dibromofluoromethane (S)	%.			93	86-116	M5
Toluene-d8 (S)	%.			98	86-111	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch: 417280

Analysis Method: EPA 5030/8260

QC Batch Method: EPA 5030/8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50185017003

METHOD BLANK: 1921657

Matrix: Water

Associated Lab Samples: 50185017003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/28/17 15:06	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/28/17 15:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/28/17 15:06	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/28/17 15:06	
1,1-Dichloroethane	ug/L	ND	5.0	11/28/17 15:06	
1,1-Dichloroethene	ug/L	ND	5.0	11/28/17 15:06	
1,1-Dichloropropene	ug/L	ND	5.0	11/28/17 15:06	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/28/17 15:06	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/28/17 15:06	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/28/17 15:06	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	
1,2-Dichloroethane	ug/L	ND	5.0	11/28/17 15:06	
1,2-Dichloropropane	ug/L	ND	5.0	11/28/17 15:06	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/28/17 15:06	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	
1,3-Dichloropropane	ug/L	ND	5.0	11/28/17 15:06	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/28/17 15:06	
1-Methylnaphthalene	ug/L	ND	5.0	11/28/17 15:06	N2
2,2-Dichloropropane	ug/L	ND	5.0	11/28/17 15:06	
2-Butanone (MEK)	ug/L	ND	25.0	11/28/17 15:06	
2-Chlorotoluene	ug/L	ND	5.0	11/28/17 15:06	
2-Hexanone	ug/L	ND	25.0	11/28/17 15:06	
2-Methylnaphthalene	ug/L	ND	10.0	11/28/17 15:06	
4-Chlorotoluene	ug/L	ND	5.0	11/28/17 15:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/28/17 15:06	
Acetone	ug/L	ND	100	11/28/17 15:06	
Acrolein	ug/L	ND	50.0	11/28/17 15:06	
Acrylonitrile	ug/L	ND	100	11/28/17 15:06	
Benzene	ug/L	ND	5.0	11/28/17 15:06	
Bromobenzene	ug/L	ND	5.0	11/28/17 15:06	
Bromochloromethane	ug/L	ND	5.0	11/28/17 15:06	
Bromodichloromethane	ug/L	ND	5.0	11/28/17 15:06	
Bromoform	ug/L	ND	5.0	11/28/17 15:06	
Bromomethane	ug/L	ND	5.0	11/28/17 15:06	
Carbon disulfide	ug/L	ND	10.0	11/28/17 15:06	
Carbon tetrachloride	ug/L	ND	5.0	11/28/17 15:06	
Chlorobenzene	ug/L	ND	5.0	11/28/17 15:06	
Chloroethane	ug/L	ND	5.0	11/28/17 15:06	
Chloroform	ug/L	ND	5.0	11/28/17 15:06	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

METHOD BLANK: 1921657

Matrix: Water

Associated Lab Samples: 50185017003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	11/28/17 15:06	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/28/17 15:06	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/28/17 15:06	
Dibromochloromethane	ug/L	ND	5.0	11/28/17 15:06	
Dibromomethane	ug/L	ND	5.0	11/28/17 15:06	
Dichlorodifluoromethane	ug/L	ND	5.0	11/28/17 15:06	
Ethyl methacrylate	ug/L	ND	100	11/28/17 15:06	
Ethylbenzene	ug/L	ND	5.0	11/28/17 15:06	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/28/17 15:06	
Iodomethane	ug/L	ND	10.0	11/28/17 15:06	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/28/17 15:06	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/28/17 15:06	
Methylene Chloride	ug/L	12.1	5.0	11/28/17 15:06	C9
n-Butylbenzene	ug/L	ND	5.0	11/28/17 15:06	
n-Hexane	ug/L	ND	5.0	11/28/17 15:06	
n-Propylbenzene	ug/L	ND	5.0	11/28/17 15:06	
Naphthalene	ug/L	ND	1.7	11/28/17 15:06	
p-Isopropyltoluene	ug/L	ND	5.0	11/28/17 15:06	
sec-Butylbenzene	ug/L	ND	5.0	11/28/17 15:06	
Styrene	ug/L	ND	5.0	11/28/17 15:06	
tert-Butylbenzene	ug/L	ND	5.0	11/28/17 15:06	
Tetrachloroethene	ug/L	ND	5.0	11/28/17 15:06	
Toluene	ug/L	ND	5.0	11/28/17 15:06	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/28/17 15:06	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/28/17 15:06	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/28/17 15:06	
Trichloroethene	ug/L	ND	5.0	11/28/17 15:06	
Trichlorofluoromethane	ug/L	ND	5.0	11/28/17 15:06	
Vinyl acetate	ug/L	ND	50.0	11/28/17 15:06	
Vinyl chloride	ug/L	ND	2.0	11/28/17 15:06	
Xylene (Total)	ug/L	ND	10.0	11/28/17 15:06	
4-Bromofluorobenzene (S)	%	96	84-113	11/28/17 15:06	
Dibromofluoromethane (S)	%	99	86-116	11/28/17 15:06	
Toluene-d8 (S)	%	99	86-111	11/28/17 15:06	

LABORATORY CONTROL SAMPLE: 1921658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	80-123	
1,1,1-Trichloroethane	ug/L	50	44.0	88	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	74-124	
1,1,2-Trichloroethane	ug/L	50	45.3	91	79-121	
1,1-Dichloroethane	ug/L	50	47.4	95	77-122	
1,1-Dichloroethene	ug/L	50	51.6	103	70-131	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1921658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	48.3	97	79-124	
1,2,3-Trichlorobenzene	ug/L	50	48.0	96	70-129	
1,2,3-Trichloropropane	ug/L	50	54.0	108	79-128	
1,2,4-Trichlorobenzene	ug/L	50	49.2	98	69-129	
1,2,4-Trimethylbenzene	ug/L	50	48.5	97	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	51.7	103	81-123	
1,2-Dichlorobenzene	ug/L	50	50.2	100	77-118	
1,2-Dichloroethane	ug/L	50	43.2	86	72-119	
1,2-Dichloropropane	ug/L	50	52.6	105	78-125	
1,3,5-Trimethylbenzene	ug/L	50	51.0	102	79-123	
1,3-Dichlorobenzene	ug/L	50	50.4	101	74-120	
1,3-Dichloropropane	ug/L	50	53.1	106	80-127	
1,4-Dichlorobenzene	ug/L	50	48.4	97	72-118	
1-Methylnaphthalene	ug/L	50	47.2	94	64-134	N2
2,2-Dichloropropane	ug/L	50	44.5	89	41-145	
2-Butanone (MEK)	ug/L	250	242	97	61-150	
2-Chlorotoluene	ug/L	50	49.8	100	77-119	
2-Hexanone	ug/L	250	233	93	67-141	
2-Methylnaphthalene	ug/L	50	45.5	91	53-112	
4-Chlorotoluene	ug/L	50	51.1	102	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	235	94	71-131	
Acetone	ug/L	250	249	99	39-166	
Acrolein	ug/L	1000	1240	124	22-200	
Acrylonitrile	ug/L	200	208	104	62-130	
Benzene	ug/L	50	49.7	99	79-120	
Bromobenzene	ug/L	50	47.3	95	76-121	
Bromochloromethane	ug/L	50	49.9	100	69-136	
Bromodichloromethane	ug/L	50	43.2	86	76-125	
Bromoform	ug/L	50	54.8	110	69-119	
Bromomethane	ug/L	50	45.8	92	27-161	
Carbon disulfide	ug/L	50	53.1	106	60-130	
Carbon tetrachloride	ug/L	50	44.3	89	74-132	
Chlorobenzene	ug/L	50	50.8	102	77-116	
Chloroethane	ug/L	50	50.3	101	51-132	
Chloroform	ug/L	50	46.1	92	76-118	
Chloromethane	ug/L	50	51.2	102	46-126	
cis-1,2-Dichloroethene	ug/L	50	47.4	95	74-126	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	78-125	
Dibromochloromethane	ug/L	50	49.8	100	80-123	
Dibromomethane	ug/L	50	47.6	95	75-124	
Dichlorodifluoromethane	ug/L	50	52.1	104	42-152	
Ethyl methacrylate	ug/L	200	192	96	75-136	
Ethylbenzene	ug/L	50	47.5	95	80-123	
Hexachloro-1,3-butadiene	ug/L	50	51.3	103	74-127	
Iodomethane	ug/L	100	112	112	43-156	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	80-122	
Methyl-tert-butyl ether	ug/L	50	46.6	93	63-131	

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1921658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	63.2	126	62-126	
n-Butylbenzene	ug/L	50	49.2	98	75-123	
n-Hexane	ug/L	50	46.8	94	66-129	
n-Propylbenzene	ug/L	50	51.1	102	79-128	
Naphthalene	ug/L	50	47.8	96	66-130	
p-Isopropyltoluene	ug/L	50	50.9	102	79-124	
sec-Butylbenzene	ug/L	50	50.5	101	80-126	
Styrene	ug/L	50	49.4	99	81-125	
tert-Butylbenzene	ug/L	50	41.4	83	62-106	
Tetrachloroethene	ug/L	50	48.9	98	74-119	
Toluene	ug/L	50	47.7	95	77-117	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	74-128	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	196	98	42-134	
Trichloroethene	ug/L	50	47.5	95	75-119	
Trichlorofluoromethane	ug/L	50	49.7	99	57-152	
Vinyl acetate	ug/L	200	193	97	71-148	
Vinyl chloride	ug/L	50	55.4	111	62-137	
Xylene (Total)	ug/L	150	145	97	79-121	
4-Bromofluorobenzene (S)	%			97	84-113	
Dibromofluoromethane (S)	%			93	86-116	
Toluene-d8 (S)	%			96	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921659 1921660

Parameter	Units	50184840001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	54.1	58.6	108	117	48-143	8	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	43.8	49.1	88	98	52-142	12	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	55.3	64.8	111	130	48-143	16	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	47.1	56.1	94	112	51-139	18	20	
1,1-Dichloroethane	ug/L	ND	50	50	48.3	54.5	97	109	53-139	12	20	
1,1-Dichloroethene	ug/L	ND	50	50	51.4	57.4	103	115	50-149	11	20	
1,1-Dichloropropene	ug/L	ND	50	50	47.0	52.4	94	105	52-145	11	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	48.7	53.9	97	108	30-144	10	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	55.3	62.5	111	125	49-149	12	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	49.1	52.8	98	106	24-146	7	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	46.7	50.3	93	101	33-150	8	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	54.6	61.8	109	124	54-141	12	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	47.5	53.4	95	107	33-142	12	20	
1,2-Dichloroethane	ug/L	ND	50	50	44.5	49.4	89	99	47-138	10	20	
1,2-Dichloropropane	ug/L	ND	50	50	55.3	61.0	111	122	55-142	10	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	45.7	50.3	91	101	31-150	10	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	47.3	52.3	95	105	27-145	10	20	
1,3-Dichloropropane	ug/L	ND	50	50	55.2	61.4	110	123	55-145	11	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921659 1921660											
Parameter	Units	50184840001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	50	50	46.2	50.8	92	102	27-140	10	20
1-Methylnaphthalene	ug/L	ND	50	50	52.1	60.3	100	117	40-143	15	20 N2
2,2-Dichloropropane	ug/L	ND	50	50	44.9	50.8	90	102	23-144	12	20
2-Butanone (MEK)	ug/L	ND	250	250	260	296	104	118	39-159	13	20
2-Chlorotoluene	ug/L	ND	50	50	47.0	52.3	94	105	31-148	11	20
2-Hexanone	ug/L	ND	250	250	260	299	104	120	47-151	14	20
2-Methylnaphthalene	ug/L	ND	50	50	47.9	56.4	94	111	27-123	16	20
4-Chlorotoluene	ug/L	ND	50	50	46.9	51.5	94	103	30-148	9	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	254	290	101	116	48-146	13	20
Acetone	ug/L	ND	250	250	216	252	86	101	31-152	16	20
Acrolein	ug/L	ND	1000	1000	1120	1280	112	128	23-200	13	20
Acrylonitrile	ug/L	ND	200	200	218	239	109	120	42-143	9	20
Benzene	ug/L	ND	50	50	51.0	56.7	102	113	57-136	11	20
Bromobenzene	ug/L	ND	50	50	49.5	53.5	99	107	45-138	8	20
Bromochloromethane	ug/L	ND	50	50	49.6	55.4	99	111	50-145	11	20
Bromodichloromethane	ug/L	ND	50	50	45.1	50.3	90	101	49-142	11	20
Bromoform	ug/L	ND	50	50	51.1	62.8	102	126	39-131	21	20 R1
Bromomethane	ug/L	ND	50	50	40.0	51.3	80	103	10-162	25	20 R1
Carbon disulfide	ug/L	ND	50	50	51.6	57.6	103	115	34-142	11	20
Carbon tetrachloride	ug/L	ND	50	50	43.9	50.9	88	102	47-150	15	20
Chlorobenzene	ug/L	ND	50	50	50.3	56.6	101	113	42-138	12	20
Chloroethane	ug/L	ND	50	50	49.5	54.6	99	109	34-148	10	20
Chloroform	ug/L	ND	50	50	46.8	51.8	94	104	54-136	10	20
Chloromethane	ug/L	ND	50	50	47.7	52.9	95	106	27-138	10	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.7	53.3	99	107	48-147	7	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	50.6	56.3	101	113	40-142	11	20
Dibromochloromethane	ug/L	ND	50	50	52.5	59.9	105	120	46-143	13	20
Dibromomethane	ug/L	ND	50	50	49.5	58.3	99	117	53-140	16	20
Dichlorodifluoromethane	ug/L	ND	50	50	49.8	56.5	100	113	23-169	13	20
Ethyl methacrylate	ug/L	ND	200	200	210	243	105	122	54-149	15	20
Ethylbenzene	ug/L	ND	50	50	46.4	50.8	93	102	40-147	9	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	40.9	42.3	82	85	19-156	3	20
Iodomethane	ug/L	ND	100	100	90.9	118	91	118	13-136	26	20 R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	50.8	54.1	102	108	37-151	6	20
Methyl-tert-butyl ether	ug/L	ND	50	50	52.2	59.2	104	118	46-147	12	20
Methylene Chloride	ug/L	ND	50	50	58.3	65.3	112	126	40-138	11	20
n-Butylbenzene	ug/L	ND	50	50	41.4	43.4	83	87	21-155	5	20
n-Hexane	ug/L	ND	50	50	47.1	51.9	94	104	50-137	10	20
n-Propylbenzene	ug/L	ND	50	50	45.6	50.3	91	101	29-158	10	20
Naphthalene	ug/L	ND	50	50	50.4	59.5	101	119	43-139	17	20
p-Isopropyltoluene	ug/L	ND	50	50	44.2	48.1	88	96	25-156	9	20
sec-Butylbenzene	ug/L	ND	50	50	45.2	48.7	90	97	27-159	7	20
Styrene	ug/L	ND	50	50	50.1	55.1	100	110	34-149	9	20
tert-Butylbenzene	ug/L	ND	50	50	38.3	41.5	77	83	25-128	8	20
Tetrachloroethene	ug/L	ND	50	50	49.2	51.2	98	102	37-144	4	20

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921659 1921660											
Parameter	Units	50184840001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
			Spike Conc.	Spike Conc.						RPD	RPD
Toluene	ug/L	ND	50	50	49.7	53.5	99	107	46-137	7	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	50.8	56.5	102	113	51-145	11	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	50.2	57.3	100	115	41-143	13	20
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	203	236	102	118	10-145	15	20
Trichloroethene	ug/L	ND	50	50	47.6	52.2	95	104	45-139	9	20
Trichlorofluoromethane	ug/L	ND	50	50	47.2	50.4	94	101	42-164	6	20
Vinyl acetate	ug/L	ND	200	200	186	213	93	107	10-149	13	20
Vinyl chloride	ug/L	ND	50	50	52.6	60.2	105	120	43-154	13	20
Xylene (Total)	ug/L	ND	150	150	144	155	96	103	37-146	7	20
4-Bromofluorobenzene (S)	%.						100	98	84-113		
Dibromofluoromethane (S)	%.						93	95	86-116		
Toluene-d8 (S)	%.						99	96	86-111		

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch: 417501 Analysis Method: EPA 5030/8260

QC Batch Method: EPA 5030/8260 Analysis Description: 8260 MSV

Associated Lab Samples: 50185017008, 50185017020

METHOD BLANK: 1922782 Matrix: Water

Associated Lab Samples: 50185017008, 50185017020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/29/17 18:01	M5
1,1,1-Trichloroethane	ug/L	ND	5.0	11/29/17 18:01	M5
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/29/17 18:01	M5
1,1,2-Trichloroethane	ug/L	ND	5.0	11/29/17 18:01	M5
1,1-Dichloroethane	ug/L	ND	5.0	11/29/17 18:01	M5
1,1-Dichloroethene	ug/L	ND	5.0	11/29/17 18:01	M5
1,1-Dichloropropene	ug/L	ND	5.0	11/29/17 18:01	M5
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/29/17 18:01	M5
1,2,3-Trichloropropane	ug/L	ND	5.0	11/29/17 18:01	M5
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/29/17 18:01	M5
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/29/17 18:01	M5
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/29/17 18:01	M5
1,2-Dichlorobenzene	ug/L	ND	5.0	11/29/17 18:01	M5
1,2-Dichloroethane	ug/L	ND	5.0	11/29/17 18:01	M5
1,2-Dichloropropane	ug/L	ND	5.0	11/29/17 18:01	M5
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/29/17 18:01	M5
1,3-Dichlorobenzene	ug/L	ND	5.0	11/29/17 18:01	M5
1,3-Dichloropropane	ug/L	ND	5.0	11/29/17 18:01	M5
1,4-Dichlorobenzene	ug/L	ND	5.0	11/29/17 18:01	M5
1-Methylnaphthalene	ug/L	ND	5.0	11/29/17 18:01	M5,N2
2,2-Dichloropropane	ug/L	ND	5.0	11/29/17 18:01	M5
2-Butanone (MEK)	ug/L	ND	25.0	11/29/17 18:01	M5
2-Chlorotoluene	ug/L	ND	5.0	11/29/17 18:01	M5
2-Hexanone	ug/L	ND	25.0	11/29/17 18:01	M5
2-Methylnaphthalene	ug/L	ND	10.0	11/29/17 18:01	M5
4-Chlorotoluene	ug/L	ND	5.0	11/29/17 18:01	M5
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/29/17 18:01	M5
Acetone	ug/L	ND	100	11/29/17 18:01	M5
Acrolein	ug/L	ND	50.0	11/29/17 18:01	M5
Acrylonitrile	ug/L	ND	100	11/29/17 18:01	M5
Benzene	ug/L	ND	5.0	11/29/17 18:01	M5
Bromobenzene	ug/L	ND	5.0	11/29/17 18:01	M5
Bromochloromethane	ug/L	ND	5.0	11/29/17 18:01	M5
Bromodichloromethane	ug/L	ND	5.0	11/29/17 18:01	M5
Bromoform	ug/L	ND	5.0	11/29/17 18:01	M5
Bromomethane	ug/L	ND	5.0	11/29/17 18:01	M5
Carbon disulfide	ug/L	ND	10.0	11/29/17 18:01	M5
Carbon tetrachloride	ug/L	ND	5.0	11/29/17 18:01	M5
Chlorobenzene	ug/L	ND	5.0	11/29/17 18:01	M5
Chloroethane	ug/L	ND	5.0	11/29/17 18:01	M5
Chloroform	ug/L	ND	5.0	11/29/17 18:01	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

METHOD BLANK: 1922782

Matrix: Water

Associated Lab Samples: 50185017008, 50185017020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	11/29/17 18:01	M5
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/29/17 18:01	M5
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/29/17 18:01	M5
Dibromochloromethane	ug/L	ND	5.0	11/29/17 18:01	M5
Dibromomethane	ug/L	ND	5.0	11/29/17 18:01	M5
Dichlorodifluoromethane	ug/L	ND	5.0	11/29/17 18:01	M5
Ethyl methacrylate	ug/L	ND	100	11/29/17 18:01	M5
Ethylbenzene	ug/L	ND	5.0	11/29/17 18:01	M5
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/29/17 18:01	M5
Iodomethane	ug/L	ND	10.0	11/29/17 18:01	M5
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/29/17 18:01	M5
Methyl-tert-butyl ether	ug/L	ND	4.0	11/29/17 18:01	M5
Methylene Chloride	ug/L	16.4	5.0	11/29/17 18:01	M5
n-Butylbenzene	ug/L	ND	5.0	11/29/17 18:01	M5
n-Hexane	ug/L	ND	5.0	11/29/17 18:01	M5
n-Propylbenzene	ug/L	ND	5.0	11/29/17 18:01	M5
Naphthalene	ug/L	ND	1.7	11/29/17 18:01	M5
p-Isopropyltoluene	ug/L	ND	5.0	11/29/17 18:01	M5
sec-Butylbenzene	ug/L	ND	5.0	11/29/17 18:01	M5
Styrene	ug/L	ND	5.0	11/29/17 18:01	M5
tert-Butylbenzene	ug/L	ND	5.0	11/29/17 18:01	M5
Tetrachloroethene	ug/L	ND	5.0	11/29/17 18:01	M5
Toluene	ug/L	ND	5.0	11/29/17 18:01	M5
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/29/17 18:01	M5
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/29/17 18:01	M5
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/29/17 18:01	M5
Trichloroethene	ug/L	ND	5.0	11/29/17 18:01	M5
Trichlorofluoromethane	ug/L	ND	5.0	11/29/17 18:01	M5
Vinyl acetate	ug/L	ND	50.0	11/29/17 18:01	M5
Vinyl chloride	ug/L	ND	2.0	11/29/17 18:01	M5
Xylene (Total)	ug/L	ND	10.0	11/29/17 18:01	M5
4-Bromofluorobenzene (S)	%	97	84-113	11/29/17 18:01	M5
Dibromofluoromethane (S)	%	99	86-116	11/29/17 18:01	M5
Toluene-d8 (S)	%	99	86-111	11/29/17 18:01	M5

LABORATORY CONTROL SAMPLE: 1922783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.3	97	80-123	M5
1,1,1-Trichloroethane	ug/L	50	43.5	87	72-126	M5
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	74-124	M5
1,1,2-Trichloroethane	ug/L	50	49.1	98	79-121	M5
1,1-Dichloroethane	ug/L	50	47.0	94	77-122	M5
1,1-Dichloroethene	ug/L	50	51.2	102	70-131	M5

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1922783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	49.1	98	79-124	M5
1,2,3-Trichlorobenzene	ug/L	50	54.9	110	70-129	M5
1,2,3-Trichloropropane	ug/L	50	53.6	107	79-128	M5
1,2,4-Trichlorobenzene	ug/L	50	51.3	103	69-129	M5
1,2,4-Trimethylbenzene	ug/L	50	48.0	96	76-125	M5
1,2-Dibromoethane (EDB)	ug/L	50	55.2	110	81-123	M5
1,2-Dichlorobenzene	ug/L	50	48.7	97	77-118	M5
1,2-Dichloroethane	ug/L	50	40.4	81	72-119	M5
1,2-Dichloropropane	ug/L	50	51.9	104	78-125	M5
1,3,5-Trimethylbenzene	ug/L	50	48.0	96	79-123	M5
1,3-Dichlorobenzene	ug/L	50	48.3	97	74-120	M5
1,3-Dichloropropane	ug/L	50	52.3	105	80-127	M5
1,4-Dichlorobenzene	ug/L	50	48.1	96	72-118	M5
1-Methylnaphthalene	ug/L	50	50.3	101	64-134	M5, N2
2,2-Dichloropropane	ug/L	50	42.8	86	41-145	M5
2-Butanone (MEK)	ug/L	250	264	106	61-150	M5
2-Chlorotoluene	ug/L	50	47.2	94	77-119	M5
2-Hexanone	ug/L	250	294	118	67-141	M5
2-Methylnaphthalene	ug/L	50	48.0	96	53-112	M5
4-Chlorotoluene	ug/L	50	51.1	102	75-123	M5
4-Methyl-2-pentanone (MIBK)	ug/L	250	244	98	71-131	M5
Acetone	ug/L	250	341	136	39-166	M5
Acrolein	ug/L	1000	1380	138	22-200	M5
Acrylonitrile	ug/L	200	216	108	62-130	M5
Benzene	ug/L	50	50.4	101	79-120	M5
Bromobenzene	ug/L	50	47.0	94	76-121	M5
Bromochloromethane	ug/L	50	49.8	100	69-136	M5
Bromodichloromethane	ug/L	50	44.4	89	76-125	M5
Bromoform	ug/L	50	46.3	93	69-119	M5
Bromomethane	ug/L	50	42.0	84	27-161	M5
Carbon disulfide	ug/L	50	52.6	105	60-130	M5
Carbon tetrachloride	ug/L	50	44.0	88	74-132	M5
Chlorobenzene	ug/L	50	49.9	100	77-116	M5
Chloroethane	ug/L	50	43.5	87	51-132	M5
Chloroform	ug/L	50	45.8	92	76-118	M5
Chloromethane	ug/L	50	46.0	92	46-126	M5
cis-1,2-Dichloroethene	ug/L	50	47.6	95	74-126	M5
cis-1,3-Dichloropropene	ug/L	50	49.2	98	78-125	M5
Dibromochloromethane	ug/L	50	52.6	105	80-123	M5
Dibromomethane	ug/L	50	48.4	97	75-124	M5
Dichlorodifluoromethane	ug/L	50	45.7	91	42-152	M5
Ethyl methacrylate	ug/L	200	199	99	75-136	M5
Ethylbenzene	ug/L	50	47.4	95	80-123	M5
Hexachloro-1,3-butadiene	ug/L	50	53.0	106	74-127	M5
Iodomethane	ug/L	100	126	126	43-156	M5
Isopropylbenzene (Cumene)	ug/L	50	50.4	101	80-122	M5
Methyl-tert-butyl ether	ug/L	50	43.9	88	63-131	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1922783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	67.0	134	62-126	L1,M5
n-Butylbenzene	ug/L	50	48.1	96	75-123	M5
n-Hexane	ug/L	50	45.0	90	66-129	M5
n-Propylbenzene	ug/L	50	47.8	96	79-128	M5
Naphthalene	ug/L	50	50.3	101	66-130	M5
p-Isopropyltoluene	ug/L	50	48.6	97	79-124	M5
sec-Butylbenzene	ug/L	50	49.3	99	80-126	M5
Styrene	ug/L	50	50.7	101	81-125	M5
tert-Butylbenzene	ug/L	50	39.4	79	62-106	M5
Tetrachloroethene	ug/L	50	50.1	100	74-119	M5
Toluene	ug/L	50	47.8	96	77-117	M5
trans-1,2-Dichloroethene	ug/L	50	50.4	101	74-128	M5
trans-1,3-Dichloropropene	ug/L	50	48.5	97	75-132	M5
trans-1,4-Dichloro-2-butene	ug/L	200	199	99	42-134	M5
Trichloroethene	ug/L	50	49.6	99	75-119	M5
Trichlorofluoromethane	ug/L	50	42.7	85	57-152	M5
Vinyl acetate	ug/L	200	186	93	71-148	M5
Vinyl chloride	ug/L	50	52.9	106	62-137	M5
Xylene (Total)	ug/L	150	144	96	79-121	M5
4-Bromofluorobenzene (S)	%.			99	84-113	M5
Dibromofluoromethane (S)	%.			96	86-116	M5
Toluene-d8 (S)	%.			99	86-111	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch:	416655	Analysis Method:	EPA 8270 by SIM LVE
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH LV by SIM MSSV
Associated Lab Samples:	50185017001, 50185017002, 50185017004, 50185017005, 50185017006, 50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016		

METHOD BLANK: 1919013

Matrix: Water

Associated Lab Samples: 50185017001, 50185017002, 50185017004, 50185017005, 50185017006, 50185017007, 50185017009, 50185017010, 50185017011, 50185017012, 50185017013, 50185017014, 50185017015, 50185017016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	11/27/17 18:10	N2
2-Methylnaphthalene	ug/L	ND	1.0	11/27/17 18:10	
Acenaphthene	ug/L	ND	1.0	11/27/17 18:10	
Acenaphthylene	ug/L	ND	1.0	11/27/17 18:10	
Anthracene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(a)anthracene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(a)pyrene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/27/17 18:10	
Chrysene	ug/L	ND	0.50	11/27/17 18:10	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/27/17 18:10	
Fluoranthene	ug/L	ND	1.0	11/27/17 18:10	
Fluorene	ug/L	ND	1.0	11/27/17 18:10	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/27/17 18:10	
Phenanthrene	ug/L	ND	1.0	11/27/17 18:10	
Pyrene	ug/L	ND	1.0	11/27/17 18:10	
2-Fluorobiphenyl (S)	%	66	15-87	11/27/17 18:10	
p-Terphenyl-d14 (S)	%	89	10-116	11/27/17 18:10	

LABORATORY CONTROL SAMPLE: 1919014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.5	45	26-112	N2
2-Methylnaphthalene	ug/L	10	3.9	39	24-106	
Acenaphthene	ug/L	10	5.2	52	34-119	
Acenaphthylene	ug/L	10	5.2	52	37-122	
Anthracene	ug/L	10	9.1	91	44-134	
Benzo(a)anthracene	ug/L	10	8.5	85	43-141	
Benzo(a)pyrene	ug/L	10	8.3	83	38-153	
Benzo(b)fluoranthene	ug/L	10	6.9	69	38-160	
Benzo(g,h,i)perylene	ug/L	10	7.6	76	29-149	
Benzo(k)fluoranthene	ug/L	10	9.1	91	35-153	
Chrysene	ug/L	10	10	100	42-141	
Dibenz(a,h)anthracene	ug/L	10	7.8	78	24-156	
Fluoranthene	ug/L	10	8.9	89	45-144	
Fluorene	ug/L	10	6.6	66	41-134	
Indeno(1,2,3-cd)pyrene	ug/L	10	7.9	79	28-153	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1919014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	9.1	91	43-132	
Pyrene	ug/L	10	10.6	106	43-136	
2-Fluorobiphenyl (S)	%.			62	15-87	
p-Terphenyl-d14 (S)	%.			70	10-116	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

QC Batch: 416657 Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50185017017, 50185017018, 50185017019

METHOD BLANK: 1919019 Matrix: Water

Associated Lab Samples: 50185017017, 50185017018, 50185017019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	11/27/17 22:21	N2
2-Methylnaphthalene	ug/L	ND	1.0	11/27/17 22:21	
Acenaphthene	ug/L	ND	1.0	11/27/17 22:21	
Acenaphthylene	ug/L	ND	1.0	11/27/17 22:21	
Anthracene	ug/L	ND	0.10	11/27/17 22:21	
Benzo(a)anthracene	ug/L	ND	0.10	11/27/17 22:21	
Benzo(a)pyrene	ug/L	ND	0.10	11/27/17 22:21	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/27/17 22:21	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/27/17 22:21	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/27/17 22:21	
Chrysene	ug/L	ND	0.50	11/27/17 22:21	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/27/17 22:21	
Fluoranthene	ug/L	ND	1.0	11/27/17 22:21	
Fluorene	ug/L	ND	1.0	11/27/17 22:21	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/27/17 22:21	
Phenanthrene	ug/L	ND	1.0	11/27/17 22:21	
Pyrene	ug/L	ND	1.0	11/27/17 22:21	
2-Fluorobiphenyl (S)	%	79	15-87	11/27/17 22:21	
p-Terphenyl-d14 (S)	%	120	10-116	11/27/17 22:21	S3

LABORATORY CONTROL SAMPLE: 1919020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	7.5	75	26-112	N2
2-Methylnaphthalene	ug/L	10	6.7	67	24-106	
Acenaphthene	ug/L	10	9.3	93	34-119	
Acenaphthylene	ug/L	10	9.3	93	37-122	
Anthracene	ug/L	10	12.6	126	44-134	
Benzo(a)anthracene	ug/L	10	12.8	128	43-141	
Benzo(a)pyrene	ug/L	10	14.0	140	38-153	
Benzo(b)fluoranthene	ug/L	10	12.4	124	38-160	
Benzo(g,h,i)perylene	ug/L	10	13.2	132	29-149	
Benzo(k)fluoranthene	ug/L	10	14.6	146	35-153	
Chrysene	ug/L	10	15.2	152	42-141	L3
Dibenz(a,h)anthracene	ug/L	10	12.9	129	24-156	
Fluoranthene	ug/L	10	12.4	124	45-144	
Fluorene	ug/L	10	9.9	99	41-134	
Indeno(1,2,3-cd)pyrene	ug/L	10	13.4	134	28-153	
Phenanthrene	ug/L	10	12.2	122	43-132	
Pyrene	ug/L	10	15.4	154	43-136	L3

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QUALITY CONTROL DATA

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

LABORATORY CONTROL SAMPLE: 1919020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			82	15-87	
p-Terphenyl-d14 (S)	%.			111	10-116	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 416655

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

Batch: 416657

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

Batch: 417281

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

Batch: 417499

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

Batch: 417501

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

Batch: 417503

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

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C9 Common Laboratory Contaminant.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.
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: Convention Center- Hotel Site

Pace Project No.: 50185017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50185017001	SB01-GW	EPA 3010	416660	EPA 6010	417091
50185017002	SB02-GW	EPA 3010	416660	EPA 6010	417091
50185017004	SB04-GW	EPA 3010	416660	EPA 6010	417091
50185017005	SB05-GW	EPA 3010	416660	EPA 6010	417091
50185017006	SB06-GW	EPA 3010	416660	EPA 6010	417091
50185017007	SB07-GW	EPA 3010	416660	EPA 6010	417091
50185017009	SB09-GW	EPA 3010	416660	EPA 6010	417091
50185017010	SB010-GW	EPA 3010	416660	EPA 6010	417091
50185017011	SB011-GW	EPA 3010	416660	EPA 6010	417091
50185017012	SB012-GW	EPA 3010	416660	EPA 6010	417091
50185017013	SB013-GW	EPA 3010	416660	EPA 6010	417091
50185017014	SB014-GW	EPA 3010	416660	EPA 6010	417091
50185017015	SB015-GW	EPA 3010	416660	EPA 6010	417091
50185017016	SB016-GW	EPA 3010	416660	EPA 6010	417091
50185017017	SB017-GW	EPA 3010	416660	EPA 6010	417091
50185017018	DUP-GW1	EPA 3010	416660	EPA 6010	417091
50185017019	DUP-GW2	EPA 3010	416660	EPA 6010	417091
50185017001	SB01-GW	EPA 7470	416621	EPA 7470	417348
50185017002	SB02-GW	EPA 7470	416621	EPA 7470	417348
50185017004	SB04-GW	EPA 7470	416621	EPA 7470	417348
50185017005	SB05-GW	EPA 7470	416621	EPA 7470	417348
50185017006	SB06-GW	EPA 7470	416621	EPA 7470	417348
50185017007	SB07-GW	EPA 7470	416621	EPA 7470	417348
50185017009	SB09-GW	EPA 7470	416621	EPA 7470	417348
50185017010	SB010-GW	EPA 7470	416621	EPA 7470	417348
50185017011	SB011-GW	EPA 7470	416621	EPA 7470	417348
50185017012	SB012-GW	EPA 7470	416621	EPA 7470	417348
50185017013	SB013-GW	EPA 7470	416621	EPA 7470	417348
50185017014	SB014-GW	EPA 7470	416621	EPA 7470	417348
50185017015	SB015-GW	EPA 7470	416621	EPA 7470	417348
50185017016	SB016-GW	EPA 7470	416621	EPA 7470	417348
50185017017	SB017-GW	EPA 7470	416621	EPA 7470	417348
50185017018	DUP-GW1	EPA 7470	416621	EPA 7470	417348
50185017019	DUP-GW2	EPA 7470	416621	EPA 7470	417348
50185017001	SB01-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017002	SB02-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017004	SB04-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017005	SB05-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017006	SB06-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017007	SB07-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017009	SB09-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017010	SB010-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017011	SB011-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017012	SB012-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017013	SB013-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017014	SB014-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017015	SB015-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971
50185017016	SB016-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center- Hotel Site

Pace Project No.: 50185017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50185017017	SB017-GW	EPA 3510	416657	EPA 8270 by SIM LVE	416972
50185017018	DUP-GW1	EPA 3510	416657	EPA 8270 by SIM LVE	416972
50185017019	DUP-GW2	EPA 3510	416657	EPA 8270 by SIM LVE	416972
50185017001	SB01-GW	EPA 8260	417281		
50185017002	SB02-GW	EPA 8260	417282		
50185017004	SB04-GW	EPA 8260	417282		
50185017005	SB05-GW	EPA 8260	417282		
50185017006	SB06-GW	EPA 8260	417499		
50185017007	SB07-GW	EPA 8260	417288		
50185017009	SB09-GW	EPA 8260	417288		
50185017010	SB010-GW	EPA 8260	417288		
50185017011	SB011-GW	EPA 8260	417288		
50185017012	SB012-GW	EPA 8260	417288		
50185017013	SB013-GW	EPA 8260	417288		
50185017014	SB014-GW	EPA 8260	417288		
50185017015	SB015-GW	EPA 8260	417288		
50185017016	SB016-GW	EPA 8260	417288		
50185017017	SB017-GW	EPA 8260	417288		
50185017018	DUP-GW1	EPA 8260	417288		
50185017019	DUP-GW2	EPA 8260	417503		
50185017003	SB03-GW	EPA 5030/8260	417280		
50185017008	SB08-GW	EPA 5030/8260	417501		
50185017020	TB-5	EPA 5030/8260	417501		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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

Page: 1 of 2

Section A

Required Client Information:

Company: SME

Address: 5835 W. 74th Street

Indianapolis, IN 46278

Email To: shaw@sme-usa.com

Phone: 317-878-0200

Fac: 317-878-0300

Requested Due Date/TAT: 5-DAY

Section B

Required Project Information:

Report To: Christopher Shaw

Copy To:

Purchase Order No.:

Project Name: Convention Center - Hotel Site

Project Number: 073195.00.04B.006

Section C

Invoice Information:

Attention:

Company Name:

Address:

Pace Quote Reference:

Pace Project Manager:

Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER RCG

Site Location

STATE: IN

Section D

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section E

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section F

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section G

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section H

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section I

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section J

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section K

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section L

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section M

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section N

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section O

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section P

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section Q

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section R

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section S

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section T

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section U

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section V

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section W

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

PRODUCED WATER SL

SLURRY SL

SOIL SOIL

WASTE OIL

WASTE AIR

OTHER

TISSUE TS

Section X

Required Client Information

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

DRINKING WATER DW

WATER WT

WASTE WATER WW

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

2 of 2

Section A Required Client Information: Company: SME Address: 5835 W. 74th Street Indianapolis, IN 46278 Email To: shaw@sme-usa.com Phone: 317-876-0200 Fax: 317-876-0300 Requested Due Date/TAT: 5-DAY		Section B Required Project Information: Report To: Christopher Shaw Copy To: _____ Purchase Order No.: _____ Project Name: Convention Center - Hotel Site Project Number: 073195.00.04B.006		Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Place Quote Reference: _____ Place Project Manager: _____ Place Profile #: _____	
Regulatory Agency: NPDES GROUND WATER RCRA UST DRINKING WATER OTHER RCG		Site Location: IN STATE: _____			

ITEM #	Valid Matrix Codes MATERIALS DRINKING WATER WATER WASTE WATER PRODUCTS SOIL/SOLID OIL WASTE WIPES AIR OTHER TISSUE	Valid Matrix Codes DW WT PW PA SL OL WP OT TS	COLLECTED		SAMPLE TYPE (G-GRAB O-COMP)	MATRIX CODE (see valid codes to left)	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	# OF CONTAINERS	Preservatives		Analysis Test ↓	VOCs via 8260	PAHs via 8270/8270SIM	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab ID.
			COMPOSITE START	COMPOSITE END/DROPS			DATE	TIME	DATE	TIME				NaOH	HCl						
1	SB13-GW				G	WT					11/20/17	1205	6	2	1	3	X	X	X		013
2	SB14-GW				G	WT					11/20/17	1115	6	2	1	3	X	X	X		014
3	SB15-GW				G	WT					11/20/17	1020	6	2	1	3	X	X	X		015
4	SB16-GW				G	WT					11/20/17	0830	6	2	1	3	X	X	X		016
5	SB17-GW				G	WT					11/20/17	0830	6	2	1	3	X	X	X		017
6	DUP-GW1				G	WT					11/21/17	---	6	2	1	3	X	X	X		018
7	DUP-GW2				G	WT					11/21/17	---	6	2	1	3	X	X	X		019
8	TB-5				G	WT					11/20/17	LAB	6	2	1	3	X				020
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS: Level IV QA/QC		RELINQUISHED BY / AFFILIATION: W/SMC		DATE: 11-21-17		TIME: 1425		ACCEPTED BY / AFFILIATION: W/SMC		DATE: 11-21		TIME: 1425		SAMPLE CONDITIONS: Y N Y N Y	

SAMPLER NAME AND SIGNATURE: _____ PRINT Name of SAMPLER: Mark Sparks SIGNATURE of SAMPLER: _____		DATE Signed (MM/DD/YYYY): 11/21/2017	

Sample Condition Upon Receipt

Face Analytical

Project # 50185017

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 ☒ Yes ☐ No ☐ N/A Samples iced, cooling process has begun

Cooler Temperature 0.8 10.0°
(Initial/Corrected) Temp should be above freezing to 6°C

Ice Visible in Sample Containers: ☐ Yes ☐ No ☒ N/A

If Over 6°C, Was PM Notified? ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: <u>11/21/17 1553 KE</u>		Comments	
Are samples from West Virginia? ☐ Yes ☒ No		1.	
Document any containers out of temp.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico) ☐ Yes ☒ No		2.	
Chain of Custody Present: ☒ Yes ☐ No		3.	
Chain of Custody Filled Out: ☒ Yes ☐ No		4.	
Short Hold Time Analysis (<72hr): ☒ Yes ☒ No <u>11/21/17</u>		5. <u>PAHs - some hold 11/27 & 11/28</u>	
Rush Turn Around Time Requested: ☒ Yes ☐ No		6. <u>5 DAY 11-30-17</u>	
Containers Intact: ☒ Yes ☐ No		7.	
Sample Labels match COC: ☒ Yes ☐ No -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.		8.	
Were dissolved metals samples field filtered? ☐ Yes ☐ No ☒ N/A		9.	
All containers needing acid/base pres. have been checked? ☒ Yes ☐ No ☐ N/A		10. (Circle) <u>HNO3</u> H2SO4 NaOH NaOH/ZnAc	
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.			
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent	
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent	
Headspace in VOA Vials (>6mm): ☒ Yes ☐ No ☐ N/A		13.	
Headspace Wisconsin Sulfide ☐ Yes ☐ No ☒ N/A		14.	
Trip Blank Present: ☒ Yes ☐ No	Custody Seals ☒ Yes ☐ No	15.	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Sample Container Count

CLIENT: Sum E

COC PAGE 1 of 2

COC ID# _____

Project # 50185017

SBS
Kt
Bulk
Matrix S1W/NAL
(Soil/Water/Non-
Aqueous Liquid)

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGUFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix S1W/NAL (Soil/Water/Non- Aqueous Liquid)	pH <2 pH >9 pH >12
1	3	2															WT	✓
2	3	2																✓
3	3	2															MS 11/21/17	✓
4	3	2																✓
5	3	2																✓
6	3	2																✓
7	3	2																✓
8	3	2															MS 11/21/17	✓
9	3	2																✓
10	3	2																✓
11	3	2																✓
12	3	2																✓

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 whexane 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		
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGUFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGUFU	4oz unpreserved amber wide	BG3H	250mL HCL Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

Page 1 of 14

Sample Container Count

CLIENT: SWUE

COC PAGE 2 of 2

COC ID#

Project # 50185017

SBS
DI
Kit

Matrix S/MW/NAL
(Soil/Water/Non-
Aqueous Liquid)

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix S/MW/NAL (Soil/Water/Non- Aqueous Liquid)	pH <2 pH >9 pH >12
1	3	2																✓
2	3	2																✓
3	3	2																✓
4	3	2																✓
5	3	2																✓
6	3	2																✓
7	3	2																✓
8	3																	
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	1liter 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		
WGAU	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				

Page 1 of 14

December 27, 2017

Mr. Chris Shaw
SME
5835 W 74th Street
Indianapolis, IN 46278

RE: Project: Convention Center - Hotel Site
Pace Project No.: 50184814

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report; Modified 8260 and 8270 lists per customer request. dss

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 003971

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-17-11

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50184814001	SB-18-GW	Water	11/17/17 10:55	11/18/17 07:35
50184814002	SB-19-GW	Water	11/17/17 12:50	11/18/17 07:35
50184814003	SB-20-GW	Water	11/17/17 13:45	11/18/17 07:35
50184814004	SB-21-GW	Water	11/17/17 14:50	11/18/17 07:35
50184814005	SB-22-GW	Water	11/17/17 15:55	11/18/17 07:35
50184814006	SB-23-GW	Water	11/17/17 16:55	11/18/17 07:35
50184814007	SB-24-GW	Water	11/17/17 11:55	11/18/17 07:35
50184814008	TB-4	Water	11/17/17 08:00	11/18/17 07:35

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184814001	SB-18-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	73	PASI-I
50184814002	SB-19-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	73	PASI-I
50184814003	SB-20-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	73	PASI-I
50184814004	SB-21-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	73	PASI-I
50184814005	SB-22-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	73	PASI-I
50184814006	SB-23-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	73	PASI-I
50184814007	SB-24-GW	EPA 6010	JPk	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	73	PASI-I
50184814008	TB-4	EPA 8260	CAP	73	PASI-I
		EPA 8260	CAP	73	PASI-I

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184814001	SB-18-GW					
EPA 6010	Barium	63.3	ug/L	10.0	11/21/17 22:31	
50184814002	SB-19-GW					
EPA 6010	Barium	39.4	ug/L	10.0	11/21/17 22:33	
50184814003	SB-20-GW					
EPA 6010	Barium	190	ug/L	10.0	11/21/17 22:36	
50184814004	SB-21-GW					
EPA 6010	Barium	140	ug/L	10.0	11/21/17 22:42	
EPA 6010	Chromium	28.9	ug/L	10.0	11/21/17 22:42	
50184814005	SB-22-GW					
EPA 6010	Barium	114	ug/L	10.0	11/21/17 22:57	
EPA 6010	Chromium	14.4	ug/L	10.0	11/21/17 22:57	
EPA 8270 by SIM LVE	Benzo(a)anthracene	0.10	ug/L	0.10	11/21/17 11:24	
50184814006	SB-23-GW					
EPA 6010	Barium	108	ug/L	10.0	11/21/17 23:00	
EPA 6010	Chromium	71.1	ug/L	10.0	11/21/17 23:00	
50184814007	SB-24-GW					
EPA 6010	Barium	45.3	ug/L	10.0	11/21/17 23:02	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-18-GW		Lab ID: 50184814001		Collected: 11/17/17 10:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:31	7440-38-2		
Barium	63.3	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:31	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 05:55	11/21/17 22:31	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:31	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:31	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:31	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:31	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:21	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:06	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:06	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:06	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:06	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:06	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:06	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:06	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:06	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/20/17 10:45	11/20/17 18:06	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:06	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:06	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:06	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:06	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:06	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:06	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:06	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:06	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	57	%.	15-87	1	11/20/17 10:45	11/20/17 18:06	321-60-8		
p-Terphenyl-d14 (S)	71	%.	10-116	1	11/20/17 10:45	11/20/17 18:06	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/23/17 10:52	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/23/17 10:52	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/23/17 10:52	107-13-1		
Benzene	ND	ug/L	5.0	1		11/23/17 10:52	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/23/17 10:52	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/23/17 10:52	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/23/17 10:52	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/23/17 10:52	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/23/17 10:52	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/23/17 10:52	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/23/17 10:52	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/23/17 10:52	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-18-GW		Lab ID: 50184814001	Collected: 11/17/17 10:55	Received: 11/18/17 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/23/17 10:52	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/23/17 10:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/17 10:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/23/17 10:52	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/23/17 10:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/23/17 10:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/23/17 10:52	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 10:52	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 10:52	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/23/17 10:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/23/17 10:52	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/23/17 10:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 10:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 10:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 10:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/23/17 10:52	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/23/17 10:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/17 10:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/23/17 10:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/17 10:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 10:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 10:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 10:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/23/17 10:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 10:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/23/17 10:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 10:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 10:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/23/17 10:52	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/23/17 10:52	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/23/17 10:52	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/23/17 10:52	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/23/17 10:52	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/23/17 10:52	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/23/17 10:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/23/17 10:52	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/23/17 10:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/23/17 10:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/23/17 10:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/23/17 10:52	91-20-3	CH
n-Propylbenzene	ND	ug/L	5.0	1		11/23/17 10:52	103-65-1	
Styrene	ND	ug/L	5.0	1		11/23/17 10:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 10:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 10:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/17 10:52	127-18-4	
Toluene	ND	ug/L	5.0	1		11/23/17 10:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 10:52	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-18-GW		Lab ID: 50184814001		Collected: 11/17/17 10:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene		ND	ug/L	5.0	1		11/23/17 10:52	120-82-1	
1,1,1-Trichloroethane		ND	ug/L	5.0	1		11/23/17 10:52	71-55-6	
1,1,2-Trichloroethane		ND	ug/L	5.0	1		11/23/17 10:52	79-00-5	
Trichloroethene		ND	ug/L	5.0	1		11/23/17 10:52	79-01-6	
Trichlorofluoromethane		ND	ug/L	5.0	1		11/23/17 10:52	75-69-4	
1,2,3-Trichloropropane		ND	ug/L	5.0	1		11/23/17 10:52	96-18-4	
1,2,4-Trimethylbenzene		ND	ug/L	5.0	1		11/23/17 10:52	95-63-6	
1,3,5-Trimethylbenzene		ND	ug/L	5.0	1		11/23/17 10:52	108-67-8	
Vinyl acetate		ND	ug/L	50.0	1		11/23/17 10:52	108-05-4	
Vinyl chloride		ND	ug/L	2.0	1		11/23/17 10:52	75-01-4	
Xylene (Total)		ND	ug/L	10.0	1		11/23/17 10:52	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		99	%.	86-116	1		11/23/17 10:52	1868-53-7	
4-Bromofluorobenzene (S)		103	%.	84-113	1		11/23/17 10:52	460-00-4	
Toluene-d8 (S)		98	%.	86-111	1		11/23/17 10:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-19-GW		Lab ID: 50184814002		Collected: 11/17/17 12:50		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:33	7440-38-2		
Barium	39.4	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:33	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 05:55	11/21/17 22:33	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:33	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:33	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:33	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:33	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:23	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:18	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:18	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:18	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:18	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:18	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:18	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:18	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:18	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/20/17 10:45	11/20/17 18:18	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:18	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:18	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:18	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:18	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:18	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:18	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:18	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:18	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	59	%.	15-87	1	11/20/17 10:45	11/20/17 18:18	321-60-8		
p-Terphenyl-d14 (S)	67	%.	10-116	1	11/20/17 10:45	11/20/17 18:18	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/23/17 11:28	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/23/17 11:28	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/23/17 11:28	107-13-1		
Benzene	ND	ug/L	5.0	1		11/23/17 11:28	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/23/17 11:28	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/23/17 11:28	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/23/17 11:28	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/23/17 11:28	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/23/17 11:28	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/23/17 11:28	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/23/17 11:28	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/23/17 11:28	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-19-GW		Lab ID: 50184814002	Collected: 11/17/17 12:50	Received: 11/18/17 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/23/17 11:28	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/23/17 11:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/17 11:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/23/17 11:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/23/17 11:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/23/17 11:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/23/17 11:28	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 11:28	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 11:28	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/23/17 11:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/23/17 11:28	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/23/17 11:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 11:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 11:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 11:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/23/17 11:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/23/17 11:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/17 11:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/23/17 11:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/17 11:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 11:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 11:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 11:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/23/17 11:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 11:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/23/17 11:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 11:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 11:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/23/17 11:28	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/23/17 11:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/23/17 11:28	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/23/17 11:28	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/23/17 11:28	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/23/17 11:28	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/23/17 11:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/23/17 11:28	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/23/17 11:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/23/17 11:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/23/17 11:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/23/17 11:28	91-20-3	CH
n-Propylbenzene	ND	ug/L	5.0	1		11/23/17 11:28	103-65-1	
Styrene	ND	ug/L	5.0	1		11/23/17 11:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 11:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 11:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/17 11:28	127-18-4	
Toluene	ND	ug/L	5.0	1		11/23/17 11:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 11:28	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-19-GW		Lab ID: 50184814002		Collected: 11/17/17 12:50		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 11:28	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/17 11:28	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/17 11:28	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/23/17 11:28	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/23/17 11:28	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/23/17 11:28	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 11:28	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 11:28	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/23/17 11:28	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/23/17 11:28	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/23/17 11:28	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	95	%.	86-116	1		11/23/17 11:28	1868-53-7		
4-Bromofluorobenzene (S)	99	%.	84-113	1		11/23/17 11:28	460-00-4		
Toluene-d8 (S)	100	%.	86-111	1		11/23/17 11:28	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-20-GW		Lab ID: 50184814003		Collected: 11/17/17 13:45		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:36	7440-38-2		
Barium	190	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:36	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 05:55	11/21/17 22:36	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:36	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:36	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:36	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:36	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:25	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:29	83-32-9	R1	
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:29	208-96-8	R1	
Anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:29	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:29	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:29	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:29	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:29	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:29	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/20/17 10:45	11/20/17 18:29	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:29	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:29	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:29	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 18:29	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:29	90-12-0	N2,R1	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:29	91-57-6	R1	
Phenanthrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:29	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 18:29	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	64	%.	15-87	1	11/20/17 10:45	11/20/17 18:29	321-60-8		
p-Terphenyl-d14 (S)	69	%.	10-116	1	11/20/17 10:45	11/20/17 18:29	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/27/17 13:01	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/27/17 13:01	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/27/17 13:01	107-13-1		
Benzene	ND	ug/L	5.0	1		11/27/17 13:01	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/27/17 13:01	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/27/17 13:01	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/27/17 13:01	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/27/17 13:01	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/27/17 13:01	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/27/17 13:01	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/27/17 13:01	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/27/17 13:01	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-20-GW		Lab ID: 50184814003	Collected: 11/17/17 13:45	Received: 11/18/17 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/27/17 13:01	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/27/17 13:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/17 13:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/27/17 13:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/27/17 13:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/17 13:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/27/17 13:01	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/27/17 13:01	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/27/17 13:01	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/27/17 13:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/27/17 13:01	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/27/17 13:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/27/17 13:01	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/27/17 13:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/27/17 13:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/27/17 13:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/17 13:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/17 13:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/17 13:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/27/17 13:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/27/17 13:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/27/17 13:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/27/17 13:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/27/17 13:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/27/17 13:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/27/17 13:01	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/27/17 13:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/27/17 13:01	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/27/17 13:01	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/27/17 13:01	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/27/17 13:01	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/27/17 13:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/27/17 13:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/17 13:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/27/17 13:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/27/17 13:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/27/17 13:01	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/27/17 13:01	103-65-1	
Styrene	ND	ug/L	5.0	1		11/27/17 13:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/27/17 13:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/27/17 13:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/17 13:01	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/17 13:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:01	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-20-GW		Lab ID: 50184814003		Collected: 11/17/17 13:45		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:01	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/17 13:01	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/27/17 13:01	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/27/17 13:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/27/17 13:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/27/17 13:01	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/27/17 13:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/27/17 13:01	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/27/17 13:01	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/27/17 13:01	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/27/17 13:01	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	99	%.	86-116	1		11/27/17 13:01	1868-53-7		
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/27/17 13:01	460-00-4		
Toluene-d8 (S)	98	%.	86-111	1		11/27/17 13:01	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-21-GW		Lab ID: 50184814004		Collected: 11/17/17 14:50		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:42	7440-38-2		
Barium	140	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:42	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 05:55	11/21/17 22:42	7440-43-9		
Chromium	28.9	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:42	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:42	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:42	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:42	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:32	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 19:46	11/21/17 12:44	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 19:46	11/21/17 12:44	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/20/17 19:46	11/21/17 12:44	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/17 19:46	11/21/17 12:44	56-55-3	R1	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 19:46	11/21/17 12:44	50-32-8	R1	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 19:46	11/21/17 12:44	205-99-2	R1	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 19:46	11/21/17 12:44	191-24-2	R1	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 19:46	11/21/17 12:44	207-08-9	R1	
Chrysene	ND	ug/L	0.50	1	11/20/17 19:46	11/21/17 12:44	218-01-9	R1	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 19:46	11/21/17 12:44	53-70-3	R1	
Fluoranthene	ND	ug/L	1.0	1	11/20/17 19:46	11/21/17 12:44	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 19:46	11/21/17 12:44	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 19:46	11/21/17 12:44	193-39-5	R1	
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 19:46	11/21/17 12:44	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 19:46	11/21/17 12:44	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/20/17 19:46	11/21/17 12:44	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 19:46	11/21/17 12:44	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	52	%.	15-87	1	11/20/17 19:46	11/21/17 12:44	321-60-8		
p-Terphenyl-d14 (S)	45	%.	10-116	1	11/20/17 19:46	11/21/17 12:44	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/27/17 13:18	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/27/17 13:18	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/27/17 13:18	107-13-1		
Benzene	ND	ug/L	5.0	1		11/27/17 13:18	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/27/17 13:18	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/27/17 13:18	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/27/17 13:18	75-27-4	R1	
Bromoform	ND	ug/L	5.0	1		11/27/17 13:18	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/27/17 13:18	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/27/17 13:18	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/27/17 13:18	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/27/17 13:18	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-21-GW		Lab ID: 50184814004		Collected: 11/17/17 14:50		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
tert-Butylbenzene	ND	ug/L	5.0	1		11/27/17 13:18	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		11/27/17 13:18	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/17 13:18	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		11/27/17 13:18	108-90-7		
Chloroethane	ND	ug/L	5.0	1		11/27/17 13:18	75-00-3		
Chloroform	ND	ug/L	5.0	1		11/27/17 13:18	67-66-3	R1	
Chloromethane	ND	ug/L	5.0	1		11/27/17 13:18	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		11/27/17 13:18	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		11/27/17 13:18	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		11/27/17 13:18	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/27/17 13:18	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		11/27/17 13:18	74-95-3	R1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:18	95-50-1	R1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:18	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:18	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/27/17 13:18	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/27/17 13:18	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		11/27/17 13:18	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		11/27/17 13:18	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/17 13:18	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/17 13:18	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/17 13:18	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		11/27/17 13:18	78-87-5	R1	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/27/17 13:18	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		11/27/17 13:18	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		11/27/17 13:18	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/27/17 13:18	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/27/17 13:18	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		11/27/17 13:18	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		11/27/17 13:18	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/27/17 13:18	87-68-3		
n-Hexane	ND	ug/L	5.0	1		11/27/17 13:18	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		11/27/17 13:18	591-78-6		
Iodomethane	ND	ug/L	10.0	1		11/27/17 13:18	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/27/17 13:18	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		11/27/17 13:18	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		11/27/17 13:18	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/27/17 13:18	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/27/17 13:18	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		11/27/17 13:18	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		11/27/17 13:18	103-65-1		
Styrene	ND	ug/L	5.0	1		11/27/17 13:18	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/27/17 13:18	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/27/17 13:18	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		11/27/17 13:18	127-18-4	L2	
Toluene	ND	ug/L	5.0	1		11/27/17 13:18	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:18	87-61-6		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-21-GW		Lab ID: 50184814004		Collected: 11/17/17 14:50		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/27/17 13:18	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/17 13:18	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/27/17 13:18	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/27/17 13:18	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/27/17 13:18	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/27/17 13:18	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/27/17 13:18	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/27/17 13:18	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/27/17 13:18	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/27/17 13:18	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/27/17 13:18	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	96	%.	86-116	1		11/27/17 13:18	1868-53-7		
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/27/17 13:18	460-00-4		
Toluene-d8 (S)	99	%.	86-111	1		11/27/17 13:18	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-22-GW		Lab ID: 50184814005		Collected: 11/17/17 15:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:57	7440-38-2		
Barium	114	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:57	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 05:55	11/21/17 22:57	7440-43-9		
Chromium	14.4	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:57	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:57	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:57	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 22:57	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:42	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 10:45	11/21/17 11:24	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 10:45	11/21/17 11:24	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/21/17 11:24	120-12-7		
Benzo(a)anthracene	0.10	ug/L	0.10	1	11/20/17 10:45	11/21/17 11:24	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/21/17 11:24	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/21/17 11:24	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 10:45	11/21/17 11:24	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/21/17 11:24	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/20/17 10:45	11/21/17 11:24	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/21/17 11:24	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/20/17 10:45	11/21/17 11:24	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 10:45	11/21/17 11:24	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/21/17 11:24	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/21/17 11:24	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/21/17 11:24	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/20/17 10:45	11/21/17 11:24	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 10:45	11/21/17 11:24	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	50	%.	15-87	1	11/20/17 10:45	11/21/17 11:24	321-60-8		
p-Terphenyl-d14 (S)	32	%.	10-116	1	11/20/17 10:45	11/21/17 11:24	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/23/17 12:02	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/23/17 12:02	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/23/17 12:02	107-13-1		
Benzene	ND	ug/L	5.0	1		11/23/17 12:02	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/23/17 12:02	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/23/17 12:02	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/23/17 12:02	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/23/17 12:02	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/23/17 12:02	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/23/17 12:02	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:02	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:02	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-22-GW		Lab ID: 50184814005	Collected: 11/17/17 15:55	Received: 11/18/17 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:02	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/23/17 12:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/17 12:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/23/17 12:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/23/17 12:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/23/17 12:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/23/17 12:02	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 12:02	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 12:02	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/23/17 12:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/23/17 12:02	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/23/17 12:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/23/17 12:02	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/23/17 12:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/17 12:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/23/17 12:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/23/17 12:02	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/23/17 12:02	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/23/17 12:02	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/23/17 12:02	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/23/17 12:02	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/23/17 12:02	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/23/17 12:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/23/17 12:02	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/23/17 12:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/23/17 12:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/23/17 12:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/23/17 12:02	91-20-3	CH
n-Propylbenzene	ND	ug/L	5.0	1		11/23/17 12:02	103-65-1	
Styrene	ND	ug/L	5.0	1		11/23/17 12:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 12:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 12:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/17 12:02	127-18-4	
Toluene	ND	ug/L	5.0	1		11/23/17 12:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:02	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-22-GW		Lab ID: 50184814005		Collected: 11/17/17 15:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:02	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/17 12:02	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/17 12:02	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/23/17 12:02	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/23/17 12:02	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/23/17 12:02	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 12:02	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 12:02	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/23/17 12:02	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/23/17 12:02	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/23/17 12:02	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	101	%.	86-116	1		11/23/17 12:02	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/23/17 12:02	460-00-4		
Toluene-d8 (S)	98	%.	86-111	1		11/23/17 12:02	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-23-GW		Lab ID: 50184814006		Collected: 11/17/17 16:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:00	7440-38-2		
Barium	108	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:00	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 05:55	11/21/17 23:00	7440-43-9		
Chromium	71.1	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:00	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:00	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:00	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:00	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:45	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:15	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:15	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:15	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:15	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:15	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:15	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:15	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:15	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/20/17 10:45	11/20/17 19:15	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:15	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:15	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:15	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:15	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:15	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:15	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:15	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:15	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	53	%.	15-87	1	11/20/17 10:45	11/20/17 19:15	321-60-8		
p-Terphenyl-d14 (S)	50	%.	10-116	1	11/20/17 10:45	11/20/17 19:15	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/23/17 12:37	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/23/17 12:37	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/23/17 12:37	107-13-1		
Benzene	ND	ug/L	5.0	1		11/23/17 12:37	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/23/17 12:37	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/23/17 12:37	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/23/17 12:37	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/23/17 12:37	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/23/17 12:37	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/23/17 12:37	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:37	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:37	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-23-GW		Lab ID: 50184814006		Collected: 11/17/17 16:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
tert-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:37	98-06-6	CH	
Carbon disulfide	ND	ug/L	10.0	1		11/23/17 12:37	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/17 12:37	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		11/23/17 12:37	108-90-7		
Chloroethane	ND	ug/L	5.0	1		11/23/17 12:37	75-00-3		
Chloroform	ND	ug/L	5.0	1		11/23/17 12:37	67-66-3		
Chloromethane	ND	ug/L	5.0	1		11/23/17 12:37	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 12:37	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 12:37	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		11/23/17 12:37	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/23/17 12:37	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		11/23/17 12:37	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:37	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:37	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:37	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/23/17 12:37	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/23/17 12:37	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/17 12:37	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		11/23/17 12:37	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:37	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:37	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:37	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:37	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:37	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:37	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:37	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:37	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:37	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		11/23/17 12:37	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		11/23/17 12:37	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/23/17 12:37	87-68-3		
n-Hexane	ND	ug/L	5.0	1		11/23/17 12:37	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		11/23/17 12:37	591-78-6		
Iodomethane	ND	ug/L	10.0	1		11/23/17 12:37	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/23/17 12:37	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		11/23/17 12:37	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		11/23/17 12:37	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/23/17 12:37	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/23/17 12:37	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		11/23/17 12:37	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		11/23/17 12:37	103-65-1		
Styrene	ND	ug/L	5.0	1		11/23/17 12:37	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 12:37	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 12:37	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		11/23/17 12:37	127-18-4		
Toluene	ND	ug/L	5.0	1		11/23/17 12:37	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:37	87-61-6		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-23-GW		Lab ID: 50184814006		Collected: 11/17/17 16:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:37	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/17 12:37	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/17 12:37	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/23/17 12:37	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/23/17 12:37	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/23/17 12:37	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 12:37	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 12:37	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/23/17 12:37	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/23/17 12:37	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/23/17 12:37	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	96	%.	86-116	1		11/23/17 12:37	1868-53-7		
4-Bromofluorobenzene (S)	102	%.	84-113	1		11/23/17 12:37	460-00-4		
Toluene-d8 (S)	98	%.	86-111	1		11/23/17 12:37	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-24-GW		Lab ID: 50184814007		Collected: 11/17/17 11:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:02	7440-38-2		
Barium	45.3	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:02	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 05:55	11/21/17 23:02	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:02	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:02	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:02	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 05:55	11/21/17 23:02	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:47	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:26	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:26	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:26	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:26	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:26	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:26	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:26	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:26	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/20/17 10:45	11/20/17 19:26	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:26	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:26	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:26	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 10:45	11/20/17 19:26	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:26	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:26	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:26	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 10:45	11/20/17 19:26	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	58	%.	15-87	1	11/20/17 10:45	11/20/17 19:26	321-60-8		
p-Terphenyl-d14 (S)	77	%.	10-116	1	11/20/17 10:45	11/20/17 19:26	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/28/17 02:36	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/28/17 02:36	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/28/17 02:36	107-13-1		
Benzene	ND	ug/L	5.0	1		11/28/17 02:36	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/28/17 02:36	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/28/17 02:36	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/28/17 02:36	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/28/17 02:36	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/28/17 02:36	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/28/17 02:36	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/28/17 02:36	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/28/17 02:36	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-24-GW		Lab ID: 50184814007	Collected: 11/17/17 11:55	Received: 11/18/17 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/28/17 02:36	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/28/17 02:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/17 02:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/28/17 02:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/28/17 02:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/28/17 02:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/28/17 02:36	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 02:36	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/28/17 02:36	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/28/17 02:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/28/17 02:36	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/28/17 02:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 02:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 02:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/28/17 02:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/28/17 02:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/28/17 02:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/28/17 02:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/28/17 02:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/17 02:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 02:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/17 02:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 02:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/28/17 02:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/28/17 02:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/28/17 02:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 02:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/28/17 02:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/28/17 02:36	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/28/17 02:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/28/17 02:36	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/28/17 02:36	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/28/17 02:36	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/28/17 02:36	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/28/17 02:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/28/17 02:36	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/28/17 02:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/28/17 02:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/28/17 02:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/28/17 02:36	91-20-3	CH
n-Propylbenzene	ND	ug/L	5.0	1		11/28/17 02:36	103-65-1	
Styrene	ND	ug/L	5.0	1		11/28/17 02:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 02:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/28/17 02:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/28/17 02:36	127-18-4	L2
Toluene	ND	ug/L	5.0	1		11/28/17 02:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 02:36	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: SB-24-GW		Lab ID: 50184814007		Collected: 11/17/17 11:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/28/17 02:36	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/17 02:36	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/28/17 02:36	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/28/17 02:36	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/28/17 02:36	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/28/17 02:36	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 02:36	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/28/17 02:36	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/28/17 02:36	108-05-4	L2	
Vinyl chloride	ND	ug/L	2.0	1		11/28/17 02:36	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/28/17 02:36	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	100	%.	86-116	1		11/28/17 02:36	1868-53-7		
4-Bromofluorobenzene (S)	95	%.	84-113	1		11/28/17 02:36	460-00-4		
Toluene-d8 (S)	95	%.	86-111	1		11/28/17 02:36	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: TB-4		Lab ID: 50184814008	Collected: 11/17/17 08:00	Received: 11/18/17 07:35	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		11/27/17 14:10	67-64-1	
Acrolein	ND	ug/L	50.0	1		11/27/17 14:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		11/27/17 14:10	107-13-1	
Benzene	ND	ug/L	5.0	1		11/27/17 14:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		11/27/17 14:10	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		11/27/17 14:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/27/17 14:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/27/17 14:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/27/17 14:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		11/27/17 14:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		11/27/17 14:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		11/27/17 14:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		11/27/17 14:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/27/17 14:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/17 14:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/27/17 14:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/27/17 14:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/17 14:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/27/17 14:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/27/17 14:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/27/17 14:10	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/27/17 14:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/27/17 14:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/27/17 14:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 14:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 14:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/27/17 14:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/27/17 14:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/27/17 14:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/27/17 14:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/27/17 14:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/17 14:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/17 14:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/17 14:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/27/17 14:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/27/17 14:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/27/17 14:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/27/17 14:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/27/17 14:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/27/17 14:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/27/17 14:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/27/17 14:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/27/17 14:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/27/17 14:10	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/27/17 14:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/27/17 14:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/27/17 14:10	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Sample: TB-4		Lab ID: 50184814008		Collected: 11/17/17 08:00		Received: 11/18/17 07:35		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		11/27/17 14:10	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		11/27/17 14:10	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/27/17 14:10	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/27/17 14:10	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		11/27/17 14:10	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		11/27/17 14:10	103-65-1		
Styrene	ND	ug/L	5.0	1		11/27/17 14:10	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/27/17 14:10	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/27/17 14:10	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		11/27/17 14:10	127-18-4		
Toluene	ND	ug/L	5.0	1		11/27/17 14:10	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/27/17 14:10	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/27/17 14:10	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/17 14:10	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/27/17 14:10	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/27/17 14:10	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/27/17 14:10	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/27/17 14:10	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/27/17 14:10	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/27/17 14:10	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/27/17 14:10	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/27/17 14:10	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/27/17 14:10	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	102	%.	86-116	1		11/27/17 14:10	1868-53-7		
4-Bromofluorobenzene (S)	102	%.	84-113	1		11/27/17 14:10	460-00-4		
Toluene-d8 (S)	99	%.	86-111	1		11/27/17 14:10	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

QC Batch: 416292 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50184814001, 50184814002, 50184814003, 50184814004, 50184814005, 50184814006, 50184814007

METHOD BLANK: 1917177 Matrix: Water
Associated Lab Samples: 50184814001, 50184814002, 50184814003, 50184814004, 50184814005, 50184814006, 50184814007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	11/28/17 16:17	

LABORATORY CONTROL SAMPLE: 1917178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917179 1917180

Parameter	Units	50184814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.1	101	103	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917181 1917182

Parameter	Units	50184814004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	93	96	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917183 1917184

Parameter	Units	50184815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	4.9	97	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

QC Batch:	416127	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples: 50184814001, 50184814002, 50184814003, 50184814004, 50184814005, 50184814006, 50184814007			

METHOD BLANK:	1916629	Matrix:	Water
Associated Lab Samples: 50184814001, 50184814002, 50184814003, 50184814004, 50184814005, 50184814006, 50184814007			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/21/17 21:57	
Barium	ug/L	ND	10.0	11/21/17 21:57	
Cadmium	ug/L	ND	2.0	11/21/17 21:57	
Chromium	ug/L	ND	10.0	11/21/17 21:57	
Lead	ug/L	ND	10.0	11/21/17 21:57	
Selenium	ug/L	ND	10.0	11/21/17 21:57	
Silver	ug/L	ND	10.0	11/21/17 21:57	

LABORATORY CONTROL SAMPLE: 1916630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1000	100	80-120	
Barium	ug/L	1000	995	100	80-120	
Cadmium	ug/L	1000	995	100	80-120	
Chromium	ug/L	1000	996	100	80-120	
Lead	ug/L	1000	961	96	80-120	
Selenium	ug/L	1000	1010	101	80-120	
Silver	ug/L	500	485	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916631 1916632

Parameter	Units	50184814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1060	1040	106	104	75-125	2	20	
Barium	ug/L	190	1000	1000	1220	1170	103	98	75-125	4	20	
Cadmium	ug/L	ND	1000	1000	1040	1020	104	102	75-125	2	20	
Chromium	ug/L	ND	1000	1000	1010	990	100	99	75-125	2	20	
Lead	ug/L	ND	1000	1000	936	917	93	91	75-125	2	20	
Selenium	ug/L	ND	1000	1000	1040	1030	104	103	75-125	1	20	
Silver	ug/L	ND	500	500	499	493	100	99	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916633 1916634

Parameter	Units	50184814004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1060	1060	106	106	75-125	0	20	
Barium	ug/L	140	1000	1000	1120	1130	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916633 1916634												
Parameter	Units	50184814004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	75-125	0	20	
Chromium	ug/L	28.9	1000	1000	995	994	97	96	75-125	0	20	
Lead	ug/L	ND	1000	1000	913	914	91	91	75-125	0	20	
Selenium	ug/L	ND	1000	1000	1040	1040	104	104	75-125	0	20	
Silver	ug/L	ND	500	500	500	498	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

QC Batch: 416825 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50184814001, 50184814002, 50184814005, 50184814006

METHOD BLANK: 1919846 Matrix: Water
Associated Lab Samples: 50184814001, 50184814002, 50184814005, 50184814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1-Dichloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1-Dichloroethene	ug/L	ND	5.0	11/23/17 03:46	
1,1-Dichloropropene	ug/L	ND	5.0	11/23/17 03:46	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/23/17 03:46	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/23/17 03:46	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/23/17 03:46	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
1,2-Dichloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,2-Dichloropropane	ug/L	ND	5.0	11/23/17 03:46	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/23/17 03:46	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
1,3-Dichloropropane	ug/L	ND	5.0	11/23/17 03:46	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
2,2-Dichloropropane	ug/L	ND	5.0	11/23/17 03:46	
2-Butanone (MEK)	ug/L	ND	25.0	11/23/17 03:46	
2-Chlorotoluene	ug/L	ND	5.0	11/23/17 03:46	
2-Hexanone	ug/L	ND	25.0	11/23/17 03:46	
4-Chlorotoluene	ug/L	ND	5.0	11/23/17 03:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/23/17 03:46	
Acetone	ug/L	ND	100	11/23/17 03:46	
Acrolein	ug/L	ND	50.0	11/23/17 03:46	
Acrylonitrile	ug/L	ND	100	11/23/17 03:46	
Benzene	ug/L	ND	5.0	11/23/17 03:46	
Bromobenzene	ug/L	ND	5.0	11/23/17 03:46	
Bromochloromethane	ug/L	ND	5.0	11/23/17 03:46	
Bromodichloromethane	ug/L	ND	5.0	11/23/17 03:46	
Bromoform	ug/L	ND	5.0	11/23/17 03:46	
Bromomethane	ug/L	ND	5.0	11/23/17 03:46	
Carbon disulfide	ug/L	ND	10.0	11/23/17 03:46	
Carbon tetrachloride	ug/L	ND	5.0	11/23/17 03:46	
Chlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
Chloroethane	ug/L	ND	5.0	11/23/17 03:46	
Chloroform	ug/L	ND	5.0	11/23/17 03:46	
Chloromethane	ug/L	ND	5.0	11/23/17 03:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/23/17 03:46	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

METHOD BLANK: 1919846

Matrix: Water

Associated Lab Samples: 50184814001, 50184814002, 50184814005, 50184814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/23/17 03:46	
Dibromochloromethane	ug/L	ND	5.0	11/23/17 03:46	
Dibromomethane	ug/L	ND	5.0	11/23/17 03:46	
Dichlorodifluoromethane	ug/L	ND	5.0	11/23/17 03:46	
Ethyl methacrylate	ug/L	ND	100	11/23/17 03:46	
Ethylbenzene	ug/L	ND	5.0	11/23/17 03:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/23/17 03:46	
Iodomethane	ug/L	ND	10.0	11/23/17 03:46	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/23/17 03:46	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/23/17 03:46	
Methylene Chloride	ug/L	ND	5.0	11/23/17 03:46	
n-Butylbenzene	ug/L	ND	5.0	11/23/17 03:46	
n-Hexane	ug/L	ND	5.0	11/23/17 03:46	
n-Propylbenzene	ug/L	ND	5.0	11/23/17 03:46	
Naphthalene	ug/L	ND	5.0	11/23/17 03:46	
p-Isopropyltoluene	ug/L	ND	5.0	11/23/17 03:46	
sec-Butylbenzene	ug/L	ND	5.0	11/23/17 03:46	
Styrene	ug/L	ND	5.0	11/23/17 03:46	
tert-Butylbenzene	ug/L	ND	5.0	11/23/17 03:46	
Tetrachloroethene	ug/L	ND	5.0	11/23/17 03:46	
Toluene	ug/L	ND	5.0	11/23/17 03:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/23/17 03:46	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/23/17 03:46	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/23/17 03:46	
Trichloroethene	ug/L	ND	5.0	11/23/17 03:46	
Trichlorofluoromethane	ug/L	ND	5.0	11/23/17 03:46	
Vinyl acetate	ug/L	ND	50.0	11/23/17 03:46	
Vinyl chloride	ug/L	ND	2.0	11/23/17 03:46	
Xylene (Total)	ug/L	ND	10.0	11/23/17 03:46	
4-Bromofluorobenzene (S)	%	95	84-113	11/23/17 03:46	
Dibromofluoromethane (S)	%	100	86-116	11/23/17 03:46	
Toluene-d8 (S)	%	99	86-111	11/23/17 03:46	

LABORATORY CONTROL SAMPLE: 1919847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.4	105	80-123	
1,1,1-Trichloroethane	ug/L	50	52.3	105	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	54.4	109	74-124	
1,1,2-Trichloroethane	ug/L	50	48.3	97	79-121	
1,1-Dichloroethane	ug/L	50	51.4	103	77-122	
1,1-Dichloroethene	ug/L	50	53.9	108	70-131	
1,1-Dichloropropene	ug/L	50	48.5	97	79-124	
1,2,3-Trichlorobenzene	ug/L	50	51.1	102	70-129	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1919847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	58.2	116	79-128	
1,2,4-Trichlorobenzene	ug/L	50	49.8	100	69-129	
1,2,4-Trimethylbenzene	ug/L	50	49.1	98	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	55.5	111	81-123	
1,2-Dichlorobenzene	ug/L	50	51.0	102	77-118	
1,2-Dichloroethane	ug/L	50	49.3	99	72-119	
1,2-Dichloropropane	ug/L	50	54.8	110	78-125	
1,3,5-Trimethylbenzene	ug/L	50	47.6	95	79-123	
1,3-Dichlorobenzene	ug/L	50	49.7	99	74-120	
1,3-Dichloropropane	ug/L	50	54.4	109	80-127	
1,4-Dichlorobenzene	ug/L	50	50.3	101	72-118	
2,2-Dichloropropane	ug/L	50	36.1	72	41-145	
2-Butanone (MEK)	ug/L	250	325	130	61-150	
2-Chlorotoluene	ug/L	50	48.8	98	77-119	
2-Hexanone	ug/L	250	323	129	67-141	
4-Chlorotoluene	ug/L	50	49.4	99	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	287	115	71-131	
Acetone	ug/L	250	321	129	39-166	
Acrolein	ug/L	1000	1330	133	22-200	
Acrylonitrile	ug/L	200	253	126	62-130	
Benzene	ug/L	50	50.4	101	79-120	
Bromobenzene	ug/L	50	54.3	109	76-121	
Bromochloromethane	ug/L	50	51.6	103	69-136	
Bromodichloromethane	ug/L	50	46.8	94	76-125	
Bromoform	ug/L	50	58.6	117	69-119	
Bromomethane	ug/L	50	62.8	126	27-161	
Carbon disulfide	ug/L	50	54.9	110	60-130	
Carbon tetrachloride	ug/L	50	48.2	96	74-132	
Chlorobenzene	ug/L	50	50.8	102	77-116	
Chloroethane	ug/L	50	56.7	113	51-132	
Chloroform	ug/L	50	48.9	98	76-118	
Chloromethane	ug/L	50	55.5	111	46-126	
cis-1,2-Dichloroethene	ug/L	50	46.3	93	74-126	
cis-1,3-Dichloropropene	ug/L	50	44.7	89	78-125	
Dibromochloromethane	ug/L	50	53.3	107	80-123	
Dibromomethane	ug/L	50	50.8	102	75-124	
Dichlorodifluoromethane	ug/L	50	55.6	111	42-152	
Ethyl methacrylate	ug/L	200	207	103	75-136	
Ethylbenzene	ug/L	50	50.7	101	80-123	
Hexachloro-1,3-butadiene	ug/L	50	46.0	92	74-127	
Iodomethane	ug/L	100	86.9	87	43-156	
Isopropylbenzene (Cumene)	ug/L	50	46.3	93	80-122	
Methyl-tert-butyl ether	ug/L	50	53.1	106	63-131	
Methylene Chloride	ug/L	50	51.9	104	62-126	
n-Butylbenzene	ug/L	50	44.5	89	75-123	
n-Hexane	ug/L	50	43.0	86	66-129	
n-Propylbenzene	ug/L	50	49.7	99	79-128	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1919847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	61.4	123	66-130	
p-Isopropyltoluene	ug/L	50	46.1	92	79-124	
sec-Butylbenzene	ug/L	50	46.4	93	80-126	
Styrene	ug/L	50	49.5	99	81-125	
tert-Butylbenzene	ug/L	50	39.6	79	62-106	
Tetrachloroethene	ug/L	50	38.6	77	74-119	
Toluene	ug/L	50	50.8	102	77-117	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	74-128	
trans-1,3-Dichloropropene	ug/L	50	50.8	102	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	172	86	42-134	
Trichloroethene	ug/L	50	48.1	96	75-119	
Trichlorofluoromethane	ug/L	50	50.9	102	57-152	
Vinyl acetate	ug/L	200	161	81	71-148	
Vinyl chloride	ug/L	50	59.8	120	62-137	
Xylene (Total)	ug/L	150	151	100	79-121	
4-Bromofluorobenzene (S)	%			99	84-113	
Dibromofluoromethane (S)	%			102	86-116	
Toluene-d8 (S)	%			99	86-111	

MATRIX SPIKE SAMPLE: 1919848

Parameter	Units	50184453003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	44.5	89	48-143	
1,1,1-Trichloroethane	ug/L	ND	50	50.0	100	52-142	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	45.0	90	48-143	
1,1,2-Trichloroethane	ug/L	ND	50	43.9	88	51-139	
1,1-Dichloroethane	ug/L	ND	50	45.3	91	53-139	
1,1-Dichloroethene	ug/L	ND	50	50.3	101	50-149	
1,1-Dichloropropene	ug/L	ND	50	45.4	91	52-145	
1,2,3-Trichlorobenzene	ug/L	ND	50	38.9	78	30-144	
1,2,3-Trichloropropane	ug/L	ND	50	46.3	93	49-149	
1,2,4-Trichlorobenzene	ug/L	ND	50	41.0	82	24-146	
1,2,4-Trimethylbenzene	ug/L	ND	50	43.2	86	33-150	
1,2-Dibromoethane (EDB)	ug/L	ND	50	48.4	97	54-141	
1,2-Dichlorobenzene	ug/L	ND	50	44.8	90	33-142	
1,2-Dichloroethane	ug/L	ND	50	43.2	86	47-138	
1,2-Dichloropropane	ug/L	ND	50	49.4	99	55-142	
1,3,5-Trimethylbenzene	ug/L	ND	50	41.5	83	31-150	
1,3-Dichlorobenzene	ug/L	ND	50	44.6	89	27-145	
1,3-Dichloropropane	ug/L	ND	50	46.9	94	55-145	
1,4-Dichlorobenzene	ug/L	ND	50	44.7	89	27-140	
2,2-Dichloropropane	ug/L	ND	50	26.8	54	23-144	
2-Butanone (MEK)	ug/L	ND	250	254	102	39-159	
2-Chlorotoluene	ug/L	ND	50	42.7	85	31-148	
2-Hexanone	ug/L	ND	250	265	106	47-151	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE SAMPLE:		1919848	50184453003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
4-Chlorotoluene	ug/L	ND	50	44.0	88	30-148		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	241	96	48-146		
Acetone	ug/L	ND	250	238	90	31-152		
Acrolein	ug/L	ND	1000	900	90	23-200		
Acrylonitrile	ug/L	ND	200	201	100	42-143		
Benzene	ug/L	ND	50	44.2	88	57-136		
Bromobenzene	ug/L	ND	50	49.7	99	45-138		
Bromochloromethane	ug/L	ND	50	43.0	86	50-145		
Bromodichloromethane	ug/L	ND	50	40.6	81	49-142		
Bromoform	ug/L	ND	50	46.5	93	39-131		
Bromomethane	ug/L	ND	50	49.1	98	10-162		
Carbon disulfide	ug/L	ND	50	51.5	103	34-142		
Carbon tetrachloride	ug/L	ND	50	44.0	88	47-150		
Chlorobenzene	ug/L	ND	50	47.0	94	42-138		
Chloroethane	ug/L	ND	50	51.8	104	34-148		
Chloroform	ug/L	ND	50	44.9	90	54-136		
Chloromethane	ug/L	ND	50	49.3	99	27-138		
cis-1,2-Dichloroethene	ug/L	ND	50	43.3	87	48-147		
cis-1,3-Dichloropropene	ug/L	ND	50	39.9	80	40-142		
Dibromochloromethane	ug/L	ND	50	47.5	95	46-143		
Dibromomethane	ug/L	ND	50	44.6	89	53-140		
Dichlorodifluoromethane	ug/L	ND	50	49.1	98	23-169		
Ethyl methacrylate	ug/L	ND	200	177	89	54-149		
Ethylbenzene	ug/L	ND	50	49.5	99	40-147		
Hexachloro-1,3-butadiene	ug/L	ND	50	34.6	69	19-156		
Iodomethane	ug/L	ND	100	67.3	67	13-136		
Isopropylbenzene (Cumene)	ug/L	ND	50	47.0	94	37-151		
Methyl-tert-butyl ether	ug/L	ND	50	43.7	87	46-147		
Methylene Chloride	ug/L	ND	50	39.7	79	40-138		
n-Butylbenzene	ug/L	ND	50	38.2	76	21-155		
n-Hexane	ug/L	ND	50	37.2	74	50-137		
n-Propylbenzene	ug/L	ND	50	44.5	89	29-158		
Naphthalene	ug/L	ND	50	48.4	97	43-139		
p-Isopropyltoluene	ug/L	ND	50	41.8	84	25-156		
sec-Butylbenzene	ug/L	ND	50	42.6	85	27-159		
Styrene	ug/L	ND	50	47.6	95	34-149		
tert-Butylbenzene	ug/L	ND	50	36.1	72	25-128		
Tetrachloroethene	ug/L	ND	50	35.3	71	37-144		
Toluene	ug/L	ND	50	47.2	94	46-137		
trans-1,2-Dichloroethene	ug/L	ND	50	48.8	98	51-145		
trans-1,3-Dichloropropene	ug/L	ND	50	44.4	89	41-143		
trans-1,4-Dichloro-2-butene	ug/L	ND	200	130	65	10-145		
Trichloroethene	ug/L	ND	50	41.8	84	45-139		
Trichlorofluoromethane	ug/L	ND	50	49.5	99	42-164		
Vinyl acetate	ug/L	ND	200	116	58	10-149		
Vinyl chloride	ug/L	ND	50	55.7	111	43-154		
Xylene (Total)	ug/L	ND	150	146	98	37-146		

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE SAMPLE: 1919848		50184453003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
4-Bromofluorobenzene (S)	%.				106	84-113	
Dibromofluoromethane (S)	%.				100	86-116	
Toluene-d8 (S)	%.				99	86-111	

SAMPLE DUPLICATE: 1919849

Parameter	Units	50184453004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichlorobenzene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trichlorobenzene	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Chlorotoluene	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Chlorotoluene	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromobenzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

SAMPLE DUPLICATE: 1919849

Parameter	Units	50184453004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethyl methacrylate	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Hexachloro-1,3-butadiene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	2.8J		20	
Methyl-tert-butyl ether	ug/L	ND	2.5J		20	
Methylene Chloride	ug/L	ND	ND		20	
n-Butylbenzene	ug/L	10	12.1	19	20	
n-Hexane	ug/L	ND	ND		20	
n-Propylbenzene	ug/L	ND	3.8J		20	
Naphthalene	ug/L	19.0	19.2	1	20	
p-Isopropyltoluene	ug/L	ND	ND		20	
sec-Butylbenzene	ug/L	5.1	6.4	23	20	D6
Styrene	ug/L	ND	ND		20	
tert-Butylbenzene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	107	108	1		
Dibromofluoromethane (S)	%.	97	98	1		
Toluene-d8 (S)	%.	100	99	1		

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

QC Batch: 417028

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50184814003, 50184814008

METHOD BLANK: 1920637

Matrix: Water

Associated Lab Samples: 50184814003, 50184814008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/27/17 12:26	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/27/17 12:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/27/17 12:26	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/27/17 12:26	
1,1-Dichloroethane	ug/L	ND	5.0	11/27/17 12:26	
1,1-Dichloroethene	ug/L	ND	5.0	11/27/17 12:26	
1,1-Dichloropropene	ug/L	ND	5.0	11/27/17 12:26	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/27/17 12:26	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/27/17 12:26	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/27/17 12:26	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/27/17 12:26	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/27/17 12:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/27/17 12:26	
1,2-Dichloroethane	ug/L	ND	5.0	11/27/17 12:26	
1,2-Dichloropropane	ug/L	ND	5.0	11/27/17 12:26	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/27/17 12:26	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/27/17 12:26	
1,3-Dichloropropane	ug/L	ND	5.0	11/27/17 12:26	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/27/17 12:26	
2,2-Dichloropropane	ug/L	ND	5.0	11/27/17 12:26	
2-Butanone (MEK)	ug/L	ND	25.0	11/27/17 12:26	
2-Chlorotoluene	ug/L	ND	5.0	11/27/17 12:26	
2-Hexanone	ug/L	ND	25.0	11/27/17 12:26	
4-Chlorotoluene	ug/L	ND	5.0	11/27/17 12:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/27/17 12:26	
Acetone	ug/L	ND	100	11/27/17 12:26	
Acrolein	ug/L	ND	50.0	11/27/17 12:26	
Acrylonitrile	ug/L	ND	100	11/27/17 12:26	
Benzene	ug/L	ND	5.0	11/27/17 12:26	
Bromobenzene	ug/L	ND	5.0	11/27/17 12:26	
Bromochloromethane	ug/L	ND	5.0	11/27/17 12:26	
Bromodichloromethane	ug/L	ND	5.0	11/27/17 12:26	
Bromoform	ug/L	ND	5.0	11/27/17 12:26	
Bromomethane	ug/L	ND	5.0	11/27/17 12:26	
Carbon disulfide	ug/L	ND	10.0	11/27/17 12:26	
Carbon tetrachloride	ug/L	ND	5.0	11/27/17 12:26	
Chlorobenzene	ug/L	ND	5.0	11/27/17 12:26	
Chloroethane	ug/L	ND	5.0	11/27/17 12:26	
Chloroform	ug/L	ND	5.0	11/27/17 12:26	
Chloromethane	ug/L	ND	5.0	11/27/17 12:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/27/17 12:26	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

METHOD BLANK: 1920637

Matrix: Water

Associated Lab Samples: 50184814003, 50184814008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/27/17 12:26	
Dibromochloromethane	ug/L	ND	5.0	11/27/17 12:26	
Dibromomethane	ug/L	ND	5.0	11/27/17 12:26	
Dichlorodifluoromethane	ug/L	ND	5.0	11/27/17 12:26	
Ethyl methacrylate	ug/L	ND	100	11/27/17 12:26	
Ethylbenzene	ug/L	ND	5.0	11/27/17 12:26	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/27/17 12:26	
Iodomethane	ug/L	ND	10.0	11/27/17 12:26	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/27/17 12:26	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/27/17 12:26	
Methylene Chloride	ug/L	ND	5.0	11/27/17 12:26	
n-Butylbenzene	ug/L	ND	5.0	11/27/17 12:26	
n-Hexane	ug/L	ND	5.0	11/27/17 12:26	
n-Propylbenzene	ug/L	ND	5.0	11/27/17 12:26	
p-Isopropyltoluene	ug/L	ND	5.0	11/27/17 12:26	
sec-Butylbenzene	ug/L	ND	5.0	11/27/17 12:26	
Styrene	ug/L	ND	5.0	11/27/17 12:26	
tert-Butylbenzene	ug/L	ND	5.0	11/27/17 12:26	
Tetrachloroethene	ug/L	ND	5.0	11/27/17 12:26	
Toluene	ug/L	ND	5.0	11/27/17 12:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/27/17 12:26	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/27/17 12:26	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/27/17 12:26	
Trichloroethene	ug/L	ND	5.0	11/27/17 12:26	
Trichlorofluoromethane	ug/L	ND	5.0	11/27/17 12:26	
Vinyl acetate	ug/L	ND	50.0	11/27/17 12:26	
Vinyl chloride	ug/L	ND	2.0	11/27/17 12:26	
Xylene (Total)	ug/L	ND	10.0	11/27/17 12:26	
4-Bromofluorobenzene (S)	%	100	84-113	11/27/17 12:26	
Dibromofluoromethane (S)	%	100	86-116	11/27/17 12:26	
Toluene-d8 (S)	%	97	86-111	11/27/17 12:26	

LABORATORY CONTROL SAMPLE: 1920638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	80-123	
1,1,1-Trichloroethane	ug/L	50	55.9	112	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	74-124	
1,1,2-Trichloroethane	ug/L	50	51.9	104	79-121	
1,1-Dichloroethane	ug/L	50	55.2	110	77-122	
1,1-Dichloroethene	ug/L	50	54.7	109	70-131	
1,1-Dichloropropene	ug/L	50	56.2	112	79-124	
1,2,3-Trichlorobenzene	ug/L	50	42.4	85	70-129	
1,2,3-Trichloropropane	ug/L	50	51.2	102	79-128	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1920638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.9	88	69-129	
1,2,4-Trimethylbenzene	ug/L	50	47.0	94	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	100	81-123	
1,2-Dichlorobenzene	ug/L	50	47.9	96	77-118	
1,2-Dichloroethane	ug/L	50	46.8	94	72-119	
1,2-Dichloropropane	ug/L	50	54.6	109	78-125	
1,3,5-Trimethylbenzene	ug/L	50	46.7	93	79-123	
1,3-Dichlorobenzene	ug/L	50	47.2	94	74-120	
1,3-Dichloropropane	ug/L	50	52.8	106	80-127	
1,4-Dichlorobenzene	ug/L	50	47.0	94	72-118	
2,2-Dichloropropane	ug/L	50	61.2	122	41-145	
2-Butanone (MEK)	ug/L	250	274	110	61-150	
2-Chlorotoluene	ug/L	50	47.8	96	77-119	
2-Hexanone	ug/L	250	248	99	67-141	
4-Chlorotoluene	ug/L	50	45.6	91	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	234	94	71-131	
Acetone	ug/L	250	249	99	39-166	
Acrolein	ug/L	1000	1140	114	22-200	
Acrylonitrile	ug/L	200	224	112	62-130	
Benzene	ug/L	50	51.4	103	79-120	
Bromobenzene	ug/L	50	48.1	96	76-121	
Bromochloromethane	ug/L	50	58.6	117	69-136	
Bromodichloromethane	ug/L	50	52.7	105	76-125	
Bromoform	ug/L	50	55.3	111	69-119	
Bromomethane	ug/L	50	49.6	99	27-161	
Carbon disulfide	ug/L	50	56.1	112	60-130	
Carbon tetrachloride	ug/L	50	56.9	114	74-132	
Chlorobenzene	ug/L	50	46.7	93	77-116	
Chloroethane	ug/L	50	54.4	109	51-132	
Chloroform	ug/L	50	53.8	108	76-118	
Chloromethane	ug/L	50	53.7	107	46-126	
cis-1,2-Dichloroethene	ug/L	50	53.9	108	74-126	
cis-1,3-Dichloropropene	ug/L	50	54.9	110	78-125	
Dibromochloromethane	ug/L	50	52.2	104	80-123	
Dibromomethane	ug/L	50	53.2	106	75-124	
Dichlorodifluoromethane	ug/L	50	54.8	110	42-152	
Ethyl methacrylate	ug/L	200	227	113	75-136	
Ethylbenzene	ug/L	50	48.1	96	80-123	
Hexachloro-1,3-butadiene	ug/L	50	47.2	94	74-127	
Iodomethane	ug/L	100	112	112	43-156	
Isopropylbenzene (Cumene)	ug/L	50	47.7	95	80-122	
Methyl-tert-butyl ether	ug/L	50	52.3	105	63-131	
Methylene Chloride	ug/L	50	48.6	97	62-126	
n-Butylbenzene	ug/L	50	48.9	98	75-123	
n-Hexane	ug/L	50	61.0	122	66-129	
n-Propylbenzene	ug/L	50	46.1	92	79-128	
p-Isopropyltoluene	ug/L	50	47.6	95	79-124	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1920638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	45.0	90	80-126	
Styrene	ug/L	50	49.7	99	81-125	
tert-Butylbenzene	ug/L	50	37.6	75	62-106	
Tetrachloroethene	ug/L	50	46.5	93	74-119	
Toluene	ug/L	50	46.5	93	77-117	
trans-1,2-Dichloroethene	ug/L	50	52.7	105	74-128	
trans-1,3-Dichloropropene	ug/L	50	54.5	109	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	177	88	42-134	
Trichloroethene	ug/L	50	54.0	108	75-119	
Trichlorofluoromethane	ug/L	50	55.4	111	57-152	
Vinyl acetate	ug/L	200	245	123	71-148	
Vinyl chloride	ug/L	50	57.7	115	62-137	
Xylene (Total)	ug/L	150	144	96	79-121	
4-Bromofluorobenzene (S)	%			103	84-113	
Dibromofluoromethane (S)	%			103	86-116	
Toluene-d8 (S)	%			95	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920639 1920640

Parameter	Units	50184814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	43.9	42.4	88	85	48-143	4	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	52.9	52.2	106	104	52-142	1	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.3	44.0	93	88	48-143	5	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	46.9	45.8	94	92	51-139	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	50.9	49.9	102	100	53-139	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	55.0	56.2	110	112	50-149	2	20	
1,1-Dichloropropene	ug/L	ND	50	50	52.8	51.8	106	104	52-145	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	37.4	36.6	75	73	30-144	2	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	49.6	44.2	99	88	49-149	12	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	37.5	37.9	75	76	24-146	1	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	42.0	41.7	84	83	33-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	45.3	42.6	91	85	54-141	6	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	43.9	41.8	88	84	33-142	5	20	
1,2-Dichloroethane	ug/L	ND	50	50	42.9	41.4	86	83	47-138	4	20	
1,2-Dichloropropane	ug/L	ND	50	50	49.5	49.4	99	99	55-142	0	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	43.4	42.5	87	85	31-150	2	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	42.3	40.0	85	80	27-145	6	20	
1,3-Dichloropropane	ug/L	ND	50	50	47.0	45.2	94	90	55-145	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	41.7	39.6	83	79	27-140	5	20	
2,2-Dichloropropane	ug/L	ND	50	50	49.1	49.7	98	99	23-144	1	20	
2-Butanone (MEK)	ug/L	ND	250	250	236	235	95	94	39-159	0	20	
2-Chlorotoluene	ug/L	ND	50	50	44.8	43.4	90	87	31-148	3	20	
2-Hexanone	ug/L	ND	250	250	226	208	90	83	47-151	8	20	
4-Chlorotoluene	ug/L	ND	50	50	42.1	40.7	84	81	30-148	3	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920639 1920640											
Parameter	Units	50184814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	214	201	86	80	48-146	6	20
Acetone	ug/L	ND	250	250	212	208	85	83	31-152	2	20
Acrolein	ug/L	ND	1000	1000	1040	1000	104	100	23-200	4	20
Acrylonitrile	ug/L	ND	200	200	196	195	98	98	42-143	1	20
Benzene	ug/L	ND	50	50	47.3	46.8	95	94	57-136	1	20
Bromobenzene	ug/L	ND	50	50	43.8	41.9	88	84	45-138	5	20
Bromochloromethane	ug/L	ND	50	50	52.0	53.5	104	107	50-145	3	20
Bromodichloromethane	ug/L	ND	50	50	47.9	47.0	96	94	49-142	2	20
Bromoform	ug/L	ND	50	50	49.5	48.0	99	96	39-131	3	20
Bromomethane	ug/L	ND	50	50	39.1	46.1	78	92	10-162	17	20
Carbon disulfide	ug/L	ND	50	50	54.6	54.2	109	108	34-142	1	20
Carbon tetrachloride	ug/L	ND	50	50	56.1	53.9	112	108	47-150	4	20
Chlorobenzene	ug/L	ND	50	50	43.0	41.7	86	83	42-138	3	20
Chloroethane	ug/L	ND	50	50	50.8	53.3	102	107	34-148	5	20
Chloroform	ug/L	ND	50	50	49.3	50.3	99	101	54-136	2	20
Chloromethane	ug/L	ND	50	50	49.2	51.9	98	104	27-138	5	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.8	49.7	100	99	48-147	0	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	48.1	45.4	96	91	40-142	6	20
Dibromochloromethane	ug/L	ND	50	50	45.8	45.1	92	90	46-143	1	20
Dibromomethane	ug/L	ND	50	50	48.4	46.8	97	94	53-140	3	20
Dichlorodifluoromethane	ug/L	ND	50	50	48.8	49.4	98	99	23-169	1	20
Ethyl methacrylate	ug/L	ND	200	200	201	192	101	96	54-149	5	20
Ethylbenzene	ug/L	ND	50	50	46.3	42.5	93	85	40-147	8	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	48.0	42.1	96	84	19-156	13	20
Iodomethane	ug/L	ND	100	100	101	110	101	110	13-136	9	20
Isopropylbenzene (Cumene)	ug/L	ND	50	50	45.4	42.9	91	86	37-151	6	20
Methyl-tert-butyl ether	ug/L	ND	50	50	45.5	46.1	91	92	46-147	1	20
Methylene Chloride	ug/L	ND	50	50	43.8	43.3	88	87	40-138	1	20
n-Butylbenzene	ug/L	ND	50	50	43.5	40.9	87	82	21-155	6	20
n-Hexane	ug/L	ND	50	50	55.8	57.0	112	114	50-137	2	20
n-Propylbenzene	ug/L	ND	50	50	43.0	41.3	86	83	29-158	4	20
p-Isopropyltoluene	ug/L	ND	50	50	43.1	41.6	86	83	25-156	4	20
sec-Butylbenzene	ug/L	ND	50	50	41.4	39.9	83	80	27-159	4	20
Styrene	ug/L	ND	50	50	45.4	43.4	91	87	34-149	5	20
tert-Butylbenzene	ug/L	ND	50	50	36.3	35.2	73	70	25-128	3	20
Tetrachloroethene	ug/L	ND	50	50	42.8	41.1	86	82	37-144	4	20
Toluene	ug/L	ND	50	50	44.5	42.7	89	85	46-137	4	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.2	51.3	104	103	51-145	2	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	46.3	44.9	93	90	41-143	3	20
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	149	140	74	70	10-145	6	20
Trichloroethene	ug/L	ND	50	50	51.1	49.6	102	99	45-139	3	20
Trichlorofluoromethane	ug/L	ND	50	50	57.3	58.4	115	117	42-164	2	20
Vinyl acetate	ug/L	ND	200	200	179	174	89	87	10-149	3	20
Vinyl chloride	ug/L	ND	50	50	55.6	56.4	111	113	43-154	1	20
Xylene (Total)	ug/L	ND	150	150	132	124	88	83	37-146	6	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920639 1920640												
Parameter	Units	50184814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%.						102	102	84-113			
Dibromofluoromethane (S)	%.						104	106	86-116			
Toluene-d8 (S)	%.						98	97	86-111			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

QC Batch: 417036

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50184814004

METHOD BLANK: 1920660

Matrix: Water

Associated Lab Samples: 50184814004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/27/17 12:43	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/27/17 12:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/27/17 12:43	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/27/17 12:43	
1,1-Dichloroethane	ug/L	ND	5.0	11/27/17 12:43	
1,1-Dichloroethene	ug/L	ND	5.0	11/27/17 12:43	
1,1-Dichloropropene	ug/L	ND	5.0	11/27/17 12:43	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/27/17 12:43	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/27/17 12:43	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/27/17 12:43	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/27/17 12:43	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/27/17 12:43	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/27/17 12:43	
1,2-Dichloroethane	ug/L	ND	5.0	11/27/17 12:43	
1,2-Dichloropropane	ug/L	ND	5.0	11/27/17 12:43	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/27/17 12:43	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/27/17 12:43	
1,3-Dichloropropane	ug/L	ND	5.0	11/27/17 12:43	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/27/17 12:43	
2,2-Dichloropropane	ug/L	ND	5.0	11/27/17 12:43	
2-Butanone (MEK)	ug/L	ND	25.0	11/27/17 12:43	
2-Chlorotoluene	ug/L	ND	5.0	11/27/17 12:43	
2-Hexanone	ug/L	ND	25.0	11/27/17 12:43	
4-Chlorotoluene	ug/L	ND	5.0	11/27/17 12:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/27/17 12:43	
Acetone	ug/L	ND	100	11/27/17 12:43	
Acrolein	ug/L	ND	50.0	11/27/17 12:43	
Acrylonitrile	ug/L	ND	100	11/27/17 12:43	
Benzene	ug/L	ND	5.0	11/27/17 12:43	
Bromobenzene	ug/L	ND	5.0	11/27/17 12:43	
Bromochloromethane	ug/L	ND	5.0	11/27/17 12:43	
Bromodichloromethane	ug/L	ND	5.0	11/27/17 12:43	
Bromoform	ug/L	ND	5.0	11/27/17 12:43	
Bromomethane	ug/L	ND	5.0	11/27/17 12:43	
Carbon disulfide	ug/L	ND	10.0	11/27/17 12:43	
Carbon tetrachloride	ug/L	ND	5.0	11/27/17 12:43	
Chlorobenzene	ug/L	ND	5.0	11/27/17 12:43	
Chloroethane	ug/L	ND	5.0	11/27/17 12:43	
Chloroform	ug/L	ND	5.0	11/27/17 12:43	
Chloromethane	ug/L	ND	5.0	11/27/17 12:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/27/17 12:43	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

METHOD BLANK: 1920660

Matrix: Water

Associated Lab Samples: 50184814004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/27/17 12:43	
Dibromochloromethane	ug/L	ND	5.0	11/27/17 12:43	
Dibromomethane	ug/L	ND	5.0	11/27/17 12:43	
Dichlorodifluoromethane	ug/L	ND	5.0	11/27/17 12:43	
Ethyl methacrylate	ug/L	ND	100	11/27/17 12:43	
Ethylbenzene	ug/L	ND	5.0	11/27/17 12:43	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/27/17 12:43	
Iodomethane	ug/L	ND	10.0	11/27/17 12:43	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/27/17 12:43	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/27/17 12:43	
Methylene Chloride	ug/L	ND	5.0	11/27/17 12:43	
n-Butylbenzene	ug/L	ND	5.0	11/27/17 12:43	
n-Hexane	ug/L	ND	5.0	11/27/17 12:43	
n-Propylbenzene	ug/L	ND	5.0	11/27/17 12:43	
p-Isopropyltoluene	ug/L	ND	5.0	11/27/17 12:43	
sec-Butylbenzene	ug/L	ND	5.0	11/27/17 12:43	
Styrene	ug/L	ND	5.0	11/27/17 12:43	
tert-Butylbenzene	ug/L	ND	5.0	11/27/17 12:43	
Tetrachloroethene	ug/L	ND	5.0	11/27/17 12:43	
Toluene	ug/L	ND	5.0	11/27/17 12:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/27/17 12:43	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/27/17 12:43	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/27/17 12:43	
Trichloroethene	ug/L	ND	5.0	11/27/17 12:43	
Trichlorofluoromethane	ug/L	ND	5.0	11/27/17 12:43	
Vinyl acetate	ug/L	ND	50.0	11/27/17 12:43	
Vinyl chloride	ug/L	ND	2.0	11/27/17 12:43	
Xylene (Total)	ug/L	ND	10.0	11/27/17 12:43	
4-Bromofluorobenzene (S)	%	103	84-113	11/27/17 12:43	
Dibromofluoromethane (S)	%	104	86-116	11/27/17 12:43	
Toluene-d8 (S)	%	96	86-111	11/27/17 12:43	

LABORATORY CONTROL SAMPLE: 1920661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.1	98	80-123	
1,1,1-Trichloroethane	ug/L	50	49.5	99	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	74-124	
1,1,2-Trichloroethane	ug/L	50	47.3	95	79-121	
1,1-Dichloroethane	ug/L	50	47.9	96	77-122	
1,1-Dichloroethene	ug/L	50	52.4	105	70-131	
1,1-Dichloropropene	ug/L	50	45.9	92	79-124	
1,2,3-Trichlorobenzene	ug/L	50	46.8	94	70-129	
1,2,3-Trichloropropane	ug/L	50	52.5	105	79-128	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1920661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	48.8	98	69-129	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	52.7	105	81-123	
1,2-Dichlorobenzene	ug/L	50	46.2	92	77-118	
1,2-Dichloroethane	ug/L	50	47.4	95	72-119	
1,2-Dichloropropane	ug/L	50	52.7	105	78-125	
1,3,5-Trimethylbenzene	ug/L	50	44.1	88	79-123	
1,3-Dichlorobenzene	ug/L	50	46.4	93	74-120	
1,3-Dichloropropane	ug/L	50	50.5	101	80-127	
1,4-Dichlorobenzene	ug/L	50	46.7	93	72-118	
2,2-Dichloropropane	ug/L	50	51.4	103	41-145	
2-Butanone (MEK)	ug/L	250	329	132	61-150	
2-Chlorotoluene	ug/L	50	46.0	92	77-119	
2-Hexanone	ug/L	250	331	133	67-141	
4-Chlorotoluene	ug/L	50	45.3	91	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	296	118	71-131	
Acetone	ug/L	250	312	125	39-166	
Acrolein	ug/L	1000	1400	140	22-200	
Acrylonitrile	ug/L	200	258	129	62-130	
Benzene	ug/L	50	47.4	95	79-120	
Bromobenzene	ug/L	50	55.2	110	76-121	
Bromochloromethane	ug/L	50	49.3	99	69-136	
Bromodichloromethane	ug/L	50	44.4	89	76-125	
Bromoform	ug/L	50	56.0	112	69-119	
Bromomethane	ug/L	50	52.5	105	27-161	
Carbon disulfide	ug/L	50	52.9	106	60-130	
Carbon tetrachloride	ug/L	50	44.5	89	74-132	
Chlorobenzene	ug/L	50	48.3	97	77-116	
Chloroethane	ug/L	50	50.6	101	51-132	
Chloroform	ug/L	50	46.0	92	76-118	
Chloromethane	ug/L	50	54.2	108	46-126	
cis-1,2-Dichloroethene	ug/L	50	46.6	93	74-126	
cis-1,3-Dichloropropene	ug/L	50	45.5	91	78-125	
Dibromochloromethane	ug/L	50	49.9	100	80-123	
Dibromomethane	ug/L	50	48.4	97	75-124	
Dichlorodifluoromethane	ug/L	50	51.2	102	42-152	
Ethyl methacrylate	ug/L	200	199	100	75-136	
Ethylbenzene	ug/L	50	51.9	104	80-123	
Hexachloro-1,3-butadiene	ug/L	50	47.8	96	74-127	
Iodomethane	ug/L	100	81.0	81	43-156	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	80-122	
Methyl-tert-butyl ether	ug/L	50	50.1	100	63-131	
Methylene Chloride	ug/L	50	44.1	88	62-126	
n-Butylbenzene	ug/L	50	45.2	90	75-123	
n-Hexane	ug/L	50	45.8	92	66-129	
n-Propylbenzene	ug/L	50	48.4	97	79-128	
p-Isopropyltoluene	ug/L	50	45.8	92	79-124	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1920661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	45.1	90	80-126	
Styrene	ug/L	50	50.1	100	81-125	
tert-Butylbenzene	ug/L	50	38.1	76	62-106	
Tetrachloroethene	ug/L	50	36.7	73	74-119	L2
Toluene	ug/L	50	49.6	99	77-117	
trans-1,2-Dichloroethene	ug/L	50	49.8	100	74-128	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	193	96	42-134	
Trichloroethene	ug/L	50	44.5	89	75-119	
Trichlorofluoromethane	ug/L	50	44.9	90	57-152	
Vinyl acetate	ug/L	200	243	122	71-148	
Vinyl chloride	ug/L	50	56.8	114	62-137	
Xylene (Total)	ug/L	150	153	102	79-121	
4-Bromofluorobenzene (S)	%			108	84-113	
Dibromofluoromethane (S)	%			98	86-116	
Toluene-d8 (S)	%			97	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920662 1920663

Parameter	Units	50184814004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	49.6	40.7	99	81	48-143	20	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	54.5	44.8	109	90	52-142	20	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	53.7	44.8	107	90	48-143	18	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	47.1	41.6	94	83	51-139	13	20	
1,1-Dichloroethane	ug/L	ND	50	50	51.7	43.1	103	86	53-139	18	20	
1,1-Dichloroethene	ug/L	ND	50	50	57.1	47.6	114	95	50-149	18	20	
1,1-Dichloropropene	ug/L	ND	50	50	48.8	42.2	98	84	52-145	14	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	49.3	43.4	99	87	30-144	13	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	57.3	49.9	115	100	49-149	14	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	48.7	42.6	97	85	24-146	13	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	44.6	38.8	89	78	33-150	14	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	53.2	44.7	106	89	54-141	17	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	49.6	40.3	99	81	33-142	21	20	R1
1,2-Dichloroethane	ug/L	ND	50	50	48.6	40.2	97	80	47-138	19	20	
1,2-Dichloropropane	ug/L	ND	50	50	55.0	44.3	110	89	55-142	22	20	R1
1,3,5-Trimethylbenzene	ug/L	ND	50	50	43.3	36.5	87	73	31-150	17	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	47.9	40.7	96	81	27-145	16	20	
1,3-Dichloropropane	ug/L	ND	50	50	50.9	44.1	102	88	55-145	14	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	49.5	40.7	99	81	27-140	20	20	
2,2-Dichloropropane	ug/L	ND	50	50	45.0	38.0	90	76	23-144	17	20	
2-Butanone (MEK)	ug/L	ND	250	250	301	250	121	100	39-159	19	20	
2-Chlorotoluene	ug/L	ND	50	50	47.8	39.3	96	79	31-148	20	20	
2-Hexanone	ug/L	ND	250	250	298	260	119	104	47-151	13	20	
4-Chlorotoluene	ug/L	ND	50	50	47.2	39.0	94	78	30-148	19	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920662 1920663											
Parameter	Units	50184814004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	268	234	107	94	48-146	13	20
Acetone	ug/L	ND	250	250	273	233	109	93	31-152	16	20
Acrolein	ug/L	ND	1000	1000	1260	1060	126	106	23-200	17	20
Acrylonitrile	ug/L	ND	200	200	245	210	122	105	42-143	15	20
Benzene	ug/L	ND	50	50	50.9	41.9	102	84	57-136	19	20
Bromobenzene	ug/L	ND	50	50	52.6	45.9	105	92	45-138	14	20
Bromochloromethane	ug/L	ND	50	50	50.3	42.4	101	85	50-145	17	20
Bromodichloromethane	ug/L	ND	50	50	46.6	36.8	93	74	49-142	24	20 R1
Bromoform	ug/L	ND	50	50	57.9	47.8	116	96	39-131	19	20
Bromomethane	ug/L	ND	50	50	52.4	53.0	105	106	10-162	1	20
Carbon disulfide	ug/L	ND	50	50	57.2	48.6	114	97	34-142	16	20
Carbon tetrachloride	ug/L	ND	50	50	49.2	41.2	98	82	47-150	18	20
Chlorobenzene	ug/L	ND	50	50	47.9	42.1	96	84	42-138	13	20
Chloroethane	ug/L	ND	50	50	54.4	47.3	109	95	34-148	14	20
Chloroform	ug/L	ND	50	50	49.9	40.1	100	80	54-136	22	20 R1
Chloromethane	ug/L	ND	50	50	54.9	47.6	110	95	27-138	14	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	47.6	40.4	95	81	48-147	16	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	43.0	38.2	86	76	40-142	12	20
Dibromochloromethane	ug/L	ND	50	50	50.2	42.7	100	85	46-143	16	20
Dibromomethane	ug/L	ND	50	50	51.3	40.7	103	81	53-140	23	20 R1
Dichlorodifluoromethane	ug/L	ND	50	50	49.6	42.0	99	84	23-169	17	20
Ethyl methacrylate	ug/L	ND	200	200	189	165	94	82	54-149	14	20
Ethylbenzene	ug/L	ND	50	50	50.4	44.1	101	88	40-147	13	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	51.1	42.8	102	86	19-156	17	20
Iodomethane	ug/L	ND	100	100	74.2	67.3	74	67	13-136	10	20
Isopropylbenzene (Cumene)	ug/L	ND	50	50	46.5	40.9	93	82	37-151	13	20
Methyl-tert-butyl ether	ug/L	ND	50	50	49.9	40.9	100	82	46-147	20	20
Methylene Chloride	ug/L	ND	50	50	46.0	37.9	92	76	40-138	19	20
n-Butylbenzene	ug/L	ND	50	50	44.9	38.4	90	77	21-155	16	20
n-Hexane	ug/L	ND	50	50	44.0	41.3	88	83	50-137	6	20
n-Propylbenzene	ug/L	ND	50	50	49.8	42.2	100	84	29-158	16	20
p-Isopropyltoluene	ug/L	ND	50	50	45.0	38.0	90	76	25-156	17	20
sec-Butylbenzene	ug/L	ND	50	50	48.9	40.2	98	80	27-159	19	20
Styrene	ug/L	ND	50	50	45.9	40.2	92	80	34-149	13	20
tert-Butylbenzene	ug/L	ND	50	50	39.4	33.1	79	66	25-128	17	20
Tetrachloroethene	ug/L	ND	50	50	37.7	32.6	75	65	37-144	14	20
Toluene	ug/L	ND	50	50	49.5	43.0	99	86	46-137	14	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.0	45.3	106	91	51-145	16	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	48.7	43.3	97	87	41-143	12	20
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	172	150	86	75	10-145	14	20
Trichloroethene	ug/L	ND	50	50	46.9	39.7	94	79	45-139	17	20
Trichlorofluoromethane	ug/L	ND	50	50	53.6	43.9	107	88	42-164	20	20
Vinyl acetate	ug/L	ND	200	200	196	179	98	90	10-149	9	20
Vinyl chloride	ug/L	ND	50	50	62.1	51.0	124	102	43-154	20	20
Xylene (Total)	ug/L	ND	150	150	145	126	97	84	37-146	14	20

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920662 1920663												
Parameter	Units	50184814004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
4-Bromofluorobenzene (S)	%.						95	108	84-113			
Dibromofluoromethane (S)	%.						101	101	86-116			
Toluene-d8 (S)	%.						96	102	86-111			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

QC Batch: 417053

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50184814007

METHOD BLANK: 1920735

Matrix: Water

Associated Lab Samples: 50184814007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/28/17 00:52	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/28/17 00:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/28/17 00:52	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/28/17 00:52	
1,1-Dichloroethane	ug/L	ND	5.0	11/28/17 00:52	
1,1-Dichloroethene	ug/L	ND	5.0	11/28/17 00:52	
1,1-Dichloropropene	ug/L	ND	5.0	11/28/17 00:52	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/28/17 00:52	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/28/17 00:52	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/28/17 00:52	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/28/17 00:52	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/28/17 00:52	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/28/17 00:52	
1,2-Dichloroethane	ug/L	ND	5.0	11/28/17 00:52	
1,2-Dichloropropane	ug/L	ND	5.0	11/28/17 00:52	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/28/17 00:52	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/28/17 00:52	
1,3-Dichloropropane	ug/L	ND	5.0	11/28/17 00:52	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/28/17 00:52	
2,2-Dichloropropane	ug/L	ND	5.0	11/28/17 00:52	
2-Butanone (MEK)	ug/L	ND	25.0	11/28/17 00:52	
2-Chlorotoluene	ug/L	ND	5.0	11/28/17 00:52	
2-Hexanone	ug/L	ND	25.0	11/28/17 00:52	
4-Chlorotoluene	ug/L	ND	5.0	11/28/17 00:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/28/17 00:52	
Acetone	ug/L	ND	100	11/28/17 00:52	
Acrolein	ug/L	ND	50.0	11/28/17 00:52	
Acrylonitrile	ug/L	ND	100	11/28/17 00:52	
Benzene	ug/L	ND	5.0	11/28/17 00:52	
Bromobenzene	ug/L	ND	5.0	11/28/17 00:52	
Bromochloromethane	ug/L	ND	5.0	11/28/17 00:52	
Bromodichloromethane	ug/L	ND	5.0	11/28/17 00:52	
Bromoform	ug/L	ND	5.0	11/28/17 00:52	
Bromomethane	ug/L	ND	5.0	11/28/17 00:52	
Carbon disulfide	ug/L	ND	10.0	11/28/17 00:52	
Carbon tetrachloride	ug/L	ND	5.0	11/28/17 00:52	
Chlorobenzene	ug/L	ND	5.0	11/28/17 00:52	
Chloroethane	ug/L	ND	5.0	11/28/17 00:52	
Chloroform	ug/L	ND	5.0	11/28/17 00:52	
Chloromethane	ug/L	ND	5.0	11/28/17 00:52	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/28/17 00:52	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

METHOD BLANK: 1920735

Matrix: Water

Associated Lab Samples: 50184814007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/28/17 00:52	
Dibromochloromethane	ug/L	ND	5.0	11/28/17 00:52	
Dibromomethane	ug/L	ND	5.0	11/28/17 00:52	
Dichlorodifluoromethane	ug/L	ND	5.0	11/28/17 00:52	
Ethyl methacrylate	ug/L	ND	100	11/28/17 00:52	
Ethylbenzene	ug/L	ND	5.0	11/28/17 00:52	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/28/17 00:52	
Iodomethane	ug/L	ND	10.0	11/28/17 00:52	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/28/17 00:52	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/28/17 00:52	
Methylene Chloride	ug/L	ND	5.0	11/28/17 00:52	
n-Butylbenzene	ug/L	ND	5.0	11/28/17 00:52	
n-Hexane	ug/L	ND	5.0	11/28/17 00:52	
n-Propylbenzene	ug/L	ND	5.0	11/28/17 00:52	
p-Isopropyltoluene	ug/L	ND	5.0	11/28/17 00:52	
sec-Butylbenzene	ug/L	ND	5.0	11/28/17 00:52	
Styrene	ug/L	ND	5.0	11/28/17 00:52	
tert-Butylbenzene	ug/L	ND	5.0	11/28/17 00:52	
Tetrachloroethene	ug/L	ND	5.0	11/28/17 00:52	
Toluene	ug/L	ND	5.0	11/28/17 00:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/28/17 00:52	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/28/17 00:52	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/28/17 00:52	
Trichloroethene	ug/L	ND	5.0	11/28/17 00:52	
Trichlorofluoromethane	ug/L	ND	5.0	11/28/17 00:52	
Vinyl acetate	ug/L	ND	50.0	11/28/17 00:52	
Vinyl chloride	ug/L	ND	2.0	11/28/17 00:52	
Xylene (Total)	ug/L	ND	10.0	11/28/17 00:52	
4-Bromofluorobenzene (S)	%	97	84-113	11/28/17 00:52	
Dibromofluoromethane (S)	%	99	86-116	11/28/17 00:52	
Toluene-d8 (S)	%	97	86-111	11/28/17 00:52	

LABORATORY CONTROL SAMPLE: 1920736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.2	98	80-123	
1,1,1-Trichloroethane	ug/L	50	50.7	101	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	74-124	
1,1,2-Trichloroethane	ug/L	50	49.7	99	79-121	
1,1-Dichloroethane	ug/L	50	50.9	102	77-122	
1,1-Dichloroethene	ug/L	50	51.9	104	70-131	
1,1-Dichloropropene	ug/L	50	46.2	92	79-124	
1,2,3-Trichlorobenzene	ug/L	50	47.9	96	70-129	
1,2,3-Trichloropropane	ug/L	50	56.0	112	79-128	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1920736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	48.4	97	69-129	
1,2,4-Trimethylbenzene	ug/L	50	43.4	87	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	81-123	
1,2-Dichlorobenzene	ug/L	50	48.3	97	77-118	
1,2-Dichloroethane	ug/L	50	48.7	97	72-119	
1,2-Dichloropropane	ug/L	50	54.4	109	78-125	
1,3,5-Trimethylbenzene	ug/L	50	41.8	84	79-123	
1,3-Dichlorobenzene	ug/L	50	46.1	92	74-120	
1,3-Dichloropropane	ug/L	50	52.7	105	80-127	
1,4-Dichlorobenzene	ug/L	50	47.5	95	72-118	
2,2-Dichloropropane	ug/L	50	38.7	77	41-145	
2-Butanone (MEK)	ug/L	250	340	136	61-150	
2-Chlorotoluene	ug/L	50	44.5	89	77-119	
2-Hexanone	ug/L	250	324	130	67-141	
4-Chlorotoluene	ug/L	50	44.2	88	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	290	116	71-131	
Acetone	ug/L	250	345	138	39-166	
Acrolein	ug/L	1000	1240	124	22-200	
Acrylonitrile	ug/L	200	257	128	62-130	
Benzene	ug/L	50	48.5	97	79-120	
Bromobenzene	ug/L	50	54.4	109	76-121	
Bromochloromethane	ug/L	50	51.6	103	69-136	
Bromodichloromethane	ug/L	50	45.6	91	76-125	
Bromoform	ug/L	50	58.0	116	69-119	
Bromomethane	ug/L	50	69.5	139	27-161	
Carbon disulfide	ug/L	50	52.2	104	60-130	
Carbon tetrachloride	ug/L	50	44.6	89	74-132	
Chlorobenzene	ug/L	50	48.9	98	77-116	
Chloroethane	ug/L	50	53.8	108	51-132	
Chloroform	ug/L	50	48.2	96	76-118	
Chloromethane	ug/L	50	54.9	110	46-126	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	74-126	
cis-1,3-Dichloropropene	ug/L	50	44.4	89	78-125	
Dibromochloromethane	ug/L	50	51.6	103	80-123	
Dibromomethane	ug/L	50	50.6	101	75-124	
Dichlorodifluoromethane	ug/L	50	52.6	105	42-152	
Ethyl methacrylate	ug/L	200	199	100	75-136	
Ethylbenzene	ug/L	50	51.8	104	80-123	
Hexachloro-1,3-butadiene	ug/L	50	45.5	91	74-127	
Iodomethane	ug/L	100	89.5	90	43-156	
Isopropylbenzene (Cumene)	ug/L	50	45.1	90	80-122	
Methyl-tert-butyl ether	ug/L	50	52.2	104	63-131	
Methylene Chloride	ug/L	50	46.2	92	62-126	
n-Butylbenzene	ug/L	50	40.6	81	75-123	
n-Hexane	ug/L	50	40.6	81	66-129	
n-Propylbenzene	ug/L	50	47.2	94	79-128	
p-Isopropyltoluene	ug/L	50	41.3	83	79-124	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1920736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	44.2	88	80-126	
Styrene	ug/L	50	47.2	94	81-125	
tert-Butylbenzene	ug/L	50	36.2	72	62-106	
Tetrachloroethene	ug/L	50	35.3	71	74-119	L2
Toluene	ug/L	50	48.1	96	77-117	
trans-1,2-Dichloroethene	ug/L	50	51.1	102	74-128	
trans-1,3-Dichloropropene	ug/L	50	50.2	100	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	177	89	42-134	
Trichloroethene	ug/L	50	46.7	93	75-119	
Trichlorofluoromethane	ug/L	50	47.7	95	57-152	
Vinyl acetate	ug/L	200	136	68	71-148	L2
Vinyl chloride	ug/L	50	58.1	116	62-137	
Xylene (Total)	ug/L	150	145	97	79-121	
4-Bromofluorobenzene (S)	%			105	84-113	
Dibromofluoromethane (S)	%			104	86-116	
Toluene-d8 (S)	%			100	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920737 1920738

Parameter	Units	50184773010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	41.2	41.9	82	84	48-143	2	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	43.0	43.6	86	87	52-142	1	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	51.3	50.2	103	100	48-143	2	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	40.4	43.9	81	88	51-139	8	20	
1,1-Dichloroethane	ug/L	ND	50	50	42.1	42.2	84	84	53-139	0	20	
1,1-Dichloroethene	ug/L	ND	50	50	46.4	44.5	93	89	50-149	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	40.1	39.7	80	79	52-145	1	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	43.5	47.1	87	94	30-144	8	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	53.3	55.2	107	110	49-149	4	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	43.4	45.6	87	91	24-146	5	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	40.9	41.9	82	84	33-150	2	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	45.0	48.5	90	97	54-141	8	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	41.9	44.4	84	89	33-142	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	38.2	39.3	76	79	47-138	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	42.4	43.0	85	86	55-142	1	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	39.3	40.0	79	80	31-150	2	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	41.6	43.3	83	87	27-145	4	20	
1,3-Dichloropropane	ug/L	ND	50	50	45.5	46.1	91	92	55-145	1	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	41.8	44.6	84	89	27-140	6	20	
2,2-Dichloropropane	ug/L	ND	50	50	28.3	29.0	57	58	23-144	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	258	258	103	103	39-159	0	20	
2-Chlorotoluene	ug/L	ND	50	50	41.6	42.7	83	85	31-148	3	20	
2-Hexanone	ug/L	ND	250	250	277	282	111	113	47-151	2	20	
4-Chlorotoluene	ug/L	ND	50	50	40.3	40.3	81	81	30-148	0	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920737 1920738											
Parameter	Units	50184773010 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
			Spike Conc.	Spike Conc.						RPD	RPD
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	241	254	96	102	48-146	6	20
Acetone	ug/L	ND	250	250	239	230	95	92	31-152	4	20
Acrolein	ug/L	ND	1000	1000	993	944	99	94	23-200	5	20
Acrylonitrile	ug/L	ND	200	200	210	210	105	105	42-143	0	20
Benzene	ug/L	ND	50	50	39.9	40.4	80	81	57-136	1	20
Bromobenzene	ug/L	ND	50	50	45.3	46.8	91	94	45-138	3	20
Bromochloromethane	ug/L	ND	50	50	41.0	40.8	82	82	50-145	0	20
Bromodichloromethane	ug/L	ND	50	50	36.3	37.3	73	75	49-142	3	20
Bromoform	ug/L	ND	50	50	52.8	52.1	106	104	39-131	1	20
Bromomethane	ug/L	ND	50	50	41.1	49.6	82	99	10-162	19	20
Carbon disulfide	ug/L	ND	50	50	44.6	45.8	89	92	34-142	3	20
Carbon tetrachloride	ug/L	ND	50	50	39.0	38.7	78	77	47-150	1	20
Chlorobenzene	ug/L	ND	50	50	43.4	44.1	87	88	42-138	2	20
Chloroethane	ug/L	ND	50	50	45.0	43.8	90	88	34-148	3	20
Chloroform	ug/L	ND	50	50	39.8	39.1	80	78	54-136	2	20
Chloromethane	ug/L	ND	50	50	43.2	45.5	86	91	27-138	5	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	38.4	39.0	77	78	48-147	2	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	37.0	37.6	74	75	40-142	2	20
Dibromochloromethane	ug/L	ND	50	50	42.5	45.5	85	91	46-143	7	20
Dibromomethane	ug/L	ND	50	50	40.5	42.7	81	85	53-140	5	20
Dichlorodifluoromethane	ug/L	ND	50	50	36.9	36.8	74	74	23-169	0	20
Ethyl methacrylate	ug/L	ND	200	200	171	173	86	86	54-149	1	20
Ethylbenzene	ug/L	ND	50	50	43.2	46.3	86	93	40-147	7	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	50.8	47.1	102	94	19-156	7	20
Iodomethane	ug/L	ND	100	100	61.2	72.9	61	73	13-136	17	20
Isopropylbenzene (Cumene)	ug/L	ND	50	50	39.5	42.0	79	84	37-151	6	20
Methyl-tert-butyl ether	ug/L	ND	50	50	40.9	41.5	82	83	46-147	1	20
Methylene Chloride	ug/L	ND	50	50	36.9	36.1	74	72	40-138	2	20
n-Butylbenzene	ug/L	ND	50	50	40.1	42.1	80	84	21-155	5	20
n-Hexane	ug/L	ND	50	50	35.2	36.9	70	74	50-137	5	20
n-Propylbenzene	ug/L	ND	50	50	43.5	45.2	87	90	29-158	4	20
p-Isopropyltoluene	ug/L	ND	50	50	39.2	41.8	78	84	25-156	6	20
sec-Butylbenzene	ug/L	ND	50	50	41.8	43.4	84	87	27-159	4	20
Styrene	ug/L	ND	50	50	39.3	41.1	79	82	34-149	4	20
tert-Butylbenzene	ug/L	ND	50	50	34.6	36.8	69	74	25-128	6	20
Tetrachloroethene	ug/L	ND	50	50	32.9	34.3	66	69	37-144	4	20
Toluene	ug/L	ND	50	50	42.8	44.0	86	88	46-137	3	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.8	43.6	84	87	51-145	4	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	41.0	41.2	82	82	41-143	1	20
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	144	148	72	74	10-145	3	20
Trichloroethene	ug/L	ND	50	50	38.1	37.5	76	75	45-139	1	20
Trichlorofluoromethane	ug/L	ND	50	50	41.4	42.5	83	85	42-164	3	20
Vinyl acetate	ug/L	ND	200	200	130	120	65	60	10-149	8	20
Vinyl chloride	ug/L	ND	50	50	48.5	48.3	97	97	43-154	1	20
Xylene (Total)	ug/L	ND	150	150	123	128	82	85	37-146	4	20

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920737 1920738											
Parameter	Units	50184773010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
4-Bromofluorobenzene (S)	%.						98	101	84-113		
Dibromofluoromethane (S)	%.						99	98	86-116		
Toluene-d8 (S)	%.						98	103	86-111		

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

QC Batch: 416145 Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50184814001, 50184814002, 50184814003, 50184814005, 50184814006, 50184814007

METHOD BLANK: 1916669 Matrix: Water
Associated Lab Samples: 50184814001, 50184814002, 50184814003, 50184814005, 50184814006, 50184814007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	11/21/17 10:54	N2
2-Methylnaphthalene	ug/L	ND	1.0	11/21/17 10:54	
Acenaphthene	ug/L	ND	1.0	11/21/17 10:54	
Acenaphthylene	ug/L	ND	1.0	11/21/17 10:54	
Anthracene	ug/L	ND	0.10	11/21/17 10:54	
Benzo(a)anthracene	ug/L	ND	0.10	11/21/17 10:54	
Benzo(a)pyrene	ug/L	ND	0.10	11/21/17 10:54	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/21/17 10:54	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/21/17 10:54	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/21/17 10:54	
Chrysene	ug/L	ND	0.50	11/21/17 10:54	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/21/17 10:54	
Fluoranthene	ug/L	ND	1.0	11/21/17 10:54	
Fluorene	ug/L	ND	1.0	11/21/17 10:54	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/21/17 10:54	
Phenanthrene	ug/L	ND	1.0	11/21/17 10:54	
Pyrene	ug/L	ND	1.0	11/21/17 10:54	
2-Fluorobiphenyl (S)	%	78	15-87	11/21/17 10:54	
p-Terphenyl-d14 (S)	%	107	10-116	11/21/17 10:54	

LABORATORY CONTROL SAMPLE: 1916670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	6.6	66	26-112	N2
2-Methylnaphthalene	ug/L	10	5.9	59	24-106	
Acenaphthene	ug/L	10	6.8	68	34-119	
Acenaphthylene	ug/L	10	6.7	67	37-122	
Anthracene	ug/L	10	10	100	44-134	
Benzo(a)anthracene	ug/L	10	10.9	109	43-141	
Benzo(a)pyrene	ug/L	10	10.7	107	38-153	
Benzo(b)fluoranthene	ug/L	10	9.6	96	38-160	
Benzo(g,h,i)perylene	ug/L	10	9.3	93	29-149	
Benzo(k)fluoranthene	ug/L	10	10.8	108	35-153	
Chrysene	ug/L	10	11.1	111	42-141	
Dibenz(a,h)anthracene	ug/L	10	9.5	95	24-156	
Fluoranthene	ug/L	10	11.3	113	45-144	
Fluorene	ug/L	10	9.1	91	41-134	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.7	97	28-153	
Phenanthrene	ug/L	10	9.8	98	43-132	
Pyrene	ug/L	10	11.2	112	43-136	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1916670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			68	15-87	
p-Terphenyl-d14 (S)	%.			102	10-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916674 1916675

Parameter	Units	50184814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	10	10	5.7	3.6	57	36	18-118	45	20	N2,R1
2-Methylnaphthalene	ug/L	ND	10	10	5.1	3.3	51	33	11-120	43	20	R1
Acenaphthene	ug/L	ND	10	10	6.0	4.2	60	42	25-117	35	20	R1
Acenaphthylene	ug/L	ND	10	10	6.2	4.1	62	41	28-120	41	20	R1
Anthracene	ug/L	ND	10	10	9.6	8.3	96	83	25-135	14	20	
Benzo(a)anthracene	ug/L	ND	10	10	11.2	9.7	112	97	11-122	14	20	
Benzo(a)pyrene	ug/L	ND	10	10	9.3	8.7	93	87	10-109	8	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	9.2	8.2	92	82	10-118	11	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	8.1	7.8	81	78	10-90	4	20	
Benzo(k)fluoranthene	ug/L	ND	10	10	9.1	8.7	91	87	10-111	4	20	
Chrysene	ug/L	ND	10	10	10.5	9.6	105	96	10-123	9	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10	8.3	7.9	83	79	10-95	4	20	
Fluoranthene	ug/L	ND	10	10	11.6	9.9	116	99	28-135	15	20	
Fluorene	ug/L	ND	10	10	7.9	6.8	79	68	28-131	15	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	8.3	7.9	83	79	10-94	6	20	
Phenanthrene	ug/L	ND	10	10	9.0	8.1	90	81	28-130	11	20	
Pyrene	ug/L	ND	10	10	11.1	9.1	111	91	24-131	19	20	
2-Fluorobiphenyl (S)	%.						68	63	15-87			
p-Terphenyl-d14 (S)	%.						70	63	10-116			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

QC Batch:	416330	Analysis Method:	EPA 8270 by SIM LVE
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH LV by SIM MSSV
Associated Lab Samples:	50184814004		

METHOD BLANK: 1917361 Matrix: Water

Associated Lab Samples: 50184814004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	11/21/17 11:58	N2
2-Methylnaphthalene	ug/L	ND	1.0	11/21/17 11:58	
Acenaphthene	ug/L	ND	1.0	11/21/17 11:58	
Acenaphthylene	ug/L	ND	1.0	11/21/17 11:58	
Anthracene	ug/L	ND	0.10	11/21/17 11:58	
Benzo(a)anthracene	ug/L	ND	0.10	11/21/17 11:58	
Benzo(a)pyrene	ug/L	ND	0.10	11/21/17 11:58	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/21/17 11:58	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/21/17 11:58	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/21/17 11:58	
Chrysene	ug/L	ND	0.50	11/21/17 11:58	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/21/17 11:58	
Fluoranthene	ug/L	ND	1.0	11/21/17 11:58	
Fluorene	ug/L	ND	1.0	11/21/17 11:58	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/21/17 11:58	
Phenanthrene	ug/L	ND	1.0	11/21/17 11:58	
Pyrene	ug/L	ND	1.0	11/21/17 11:58	
2-Fluorobiphenyl (S)	%	53	15-87	11/21/17 11:58	
p-Terphenyl-d14 (S)	%	93	10-116	11/21/17 11:58	

LABORATORY CONTROL SAMPLE: 1917362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	7.5	75	26-112	N2
2-Methylnaphthalene	ug/L	10	6.7	67	24-106	
Acenaphthene	ug/L	10	8.2	82	34-119	
Acenaphthylene	ug/L	10	8.2	82	37-122	
Anthracene	ug/L	10	10.8	108	44-134	
Benzo(a)anthracene	ug/L	10	11.3	113	43-141	
Benzo(a)pyrene	ug/L	10	9.4	94	38-153	
Benzo(b)fluoranthene	ug/L	10	9.3	93	38-160	
Benzo(g,h,i)perylene	ug/L	10	8.1	81	29-149	
Benzo(k)fluoranthene	ug/L	10	8.1	81	35-153	
Chrysene	ug/L	10	10.7	107	42-141	
Dibenz(a,h)anthracene	ug/L	10	8.3	83	24-156	
Fluoranthene	ug/L	10	12.1	121	45-144	
Fluorene	ug/L	10	10.1	101	41-134	
Indeno(1,2,3-cd)pyrene	ug/L	10	8.5	85	28-153	
Phenanthrene	ug/L	10	10.7	107	43-132	
Pyrene	ug/L	10	12.0	120	43-136	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

LABORATORY CONTROL SAMPLE: 1917362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			71	15-87	
p-Terphenyl-d14 (S)	%.			84	10-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917363 1917364

Parameter	Units	50184814004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	10	10	5.5	5.8	55	58	18-118	5	20	N2
2-Methylnaphthalene	ug/L	ND	10	10	4.9	5.1	49	51	11-120	5	20	
Acenaphthene	ug/L	ND	10	10	5.6	6.0	56	60	25-117	6	20	
Acenaphthylene	ug/L	ND	10	10	6.1	6.4	61	64	28-120	5	20	
Anthracene	ug/L	ND	10	10	7.4	8.5	74	85	25-135	13	20	
Benzo(a)anthracene	ug/L	ND	10	10	7.3	9.1	73	91	11-122	23	20	R1
Benzo(a)pyrene	ug/L	ND	10	10	5.9	7.3	59	73	10-109	22	20	R1
Benzo(b)fluoranthene	ug/L	ND	10	10	5.5	7.5	55	75	10-118	31	20	R1
Benzo(g,h,i)perylene	ug/L	ND	10	10	5.3	6.8	53	68	10-90	25	20	R1
Benzo(k)fluoranthene	ug/L	ND	10	10	5.2	6.7	52	67	10-111	25	20	R1
Chrysene	ug/L	ND	10	10	7.0	8.7	70	87	10-123	21	20	R1
Dibenz(a,h)anthracene	ug/L	ND	10	10	5.5	6.9	55	69	10-95	22	20	R1
Fluoranthene	ug/L	ND	10	10	8.8	10.1	88	101	28-135	14	20	
Fluorene	ug/L	ND	10	10	6.8	7.2	68	72	28-131	6	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	5.5	6.8	55	68	10-94	22	20	R1
Phenanthrene	ug/L	ND	10	10	7.6	8.3	76	83	28-130	10	20	
Pyrene	ug/L	ND	10	10	8.4	9.8	84	98	24-131	16	20	
2-Fluorobiphenyl (S)	%.						57	54	15-87			
p-Terphenyl-d14 (S)	%.						28	41	10-116			

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: Convention Center - Hotel Site

Pace Project No.: 50184814

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.

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

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184814

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184814001	SB-18-GW	EPA 3010	416127	EPA 6010	416619
50184814002	SB-19-GW	EPA 3010	416127	EPA 6010	416619
50184814003	SB-20-GW	EPA 3010	416127	EPA 6010	416619
50184814004	SB-21-GW	EPA 3010	416127	EPA 6010	416619
50184814005	SB-22-GW	EPA 3010	416127	EPA 6010	416619
50184814006	SB-23-GW	EPA 3010	416127	EPA 6010	416619
50184814007	SB-24-GW	EPA 3010	416127	EPA 6010	416619
50184814001	SB-18-GW	EPA 7470	416292	EPA 7470	417266
50184814002	SB-19-GW	EPA 7470	416292	EPA 7470	417266
50184814003	SB-20-GW	EPA 7470	416292	EPA 7470	417266
50184814004	SB-21-GW	EPA 7470	416292	EPA 7470	417266
50184814005	SB-22-GW	EPA 7470	416292	EPA 7470	417266
50184814006	SB-23-GW	EPA 7470	416292	EPA 7470	417266
50184814007	SB-24-GW	EPA 7470	416292	EPA 7470	417266
50184814001	SB-18-GW	EPA 3510	416145	EPA 8270 by SIM LVE	416257
50184814002	SB-19-GW	EPA 3510	416145	EPA 8270 by SIM LVE	416257
50184814003	SB-20-GW	EPA 3510	416145	EPA 8270 by SIM LVE	416257
50184814004	SB-21-GW	EPA 3510	416330	EPA 8270 by SIM LVE	416478
50184814005	SB-22-GW	EPA 3510	416145	EPA 8270 by SIM LVE	416257
50184814006	SB-23-GW	EPA 3510	416145	EPA 8270 by SIM LVE	416257
50184814007	SB-24-GW	EPA 3510	416145	EPA 8270 by SIM LVE	416257
50184814001	SB-18-GW	EPA 8260	416825		
50184814002	SB-19-GW	EPA 8260	416825		
50184814003	SB-20-GW	EPA 8260	417028		
50184814004	SB-21-GW	EPA 8260	417036		
50184814005	SB-22-GW	EPA 8260	416825		
50184814006	SB-23-GW	EPA 8260	416825		
50184814007	SB-24-GW	EPA 8260	417053		
50184814008	TB-4	EPA 8260	417028		

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

Page: 1 of 1

Section C
Invoice Information:

Section B
Required Project Information:

Section A
Required Client Information:

Company:	SME	Report To: Christopher Shaw	Attention:	
Address:	5835 W. 74th Street Indianapolis, IN 46278	Copy To:	Company Name:	
E-mail To:	shaw@sme-usa.com	Purchase Order No.:	Address:	
Phone: 317-876-0200	Fax: 317-876-0300	Project Name: Convention Center - Hotel Site	Base Quote Bid/Estimate Proc Project Manager: Proc Profile #:	
Requested Due Date/TAT:	5-DAY	Project Number: 073195.00.04B.006	Site Location STATE:	
		REGULATORY AGENCY		
		NPDES	GROUND WATER	DRINKING WATER
		UST	RCRA	OTHER
		RCG		

[illegible]

Sample Condition Upon Receipt

Pace Analytical

Project # 50184819

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 ☒ Yes ☐ No ☐ N/A Samples iced, cooling process has begun

Cooler Temperature 1.7/1.7
(Initial/Corrected) Temp should be above freezing to 6°C

Ice Visible in Sample Containers: ☐ Yes ☐ No ☒ N/A

If Over 6°C, Was PM Notified? ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: <u>11/18/17 850 HP</u>		Comments
Are samples from West Virginia? ☐ Yes ☒ No	1.	
Document any containers out of temp.		
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico) ☐ Yes ☒ No	2.	
Chain of Custody Present: ☒ Yes ☐ No	3.	
Chain of Custody Filled Out: ☒ Yes ☐ No	4.	
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	5.	Date/Time 5035A T/C placed in Freezer: _____ Short Holds Taken to Lab: _____
Rush Turn Around Time Requested: ☐ Yes ☒ No	6.	
Containers Intact: ☒ Yes ☐ No	7.	
Sample Labels match COC: ☒ Yes ☐ No -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.	8.	
Were dissolved metals samples field filtered? ☐ Yes ☒ No ☐ N/A	9.	
All containers needing acid/base pres. have been checked? ☒ Yes ☐ No ☐ N/A 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.	10. (Circled) <u>HNO3</u> H2SO4 NaOH NaOH/ZnAc	
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	11.	Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)	12.	Present Absent
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A	13.	
Headspace Wisconsin Sulfide ☐ Yes ☐ No ☒ N/A	14.	
Trip Blank Present: ☒ Yes ☐ No Custody Seals ☒ Yes ☐ No	15.	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Sample Container Count

CLIENT: SME

COC PAGE 1 of 1
COC ID#

Project # 50184814

Sample Line
Item

SBS
Blank
R

Matrix SIMW/NAAL
(Soil/Water/Non-
Aqueous Liquid)
pH <2 pH >9 pH>12

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGUFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix SIMW/NAAL (Soil/Water/Non-Aqueous Liquid)	pH <2 pH >9 pH>12
1	3	2															WT	✓
2	3	2																
3	9	6																
4	9	6																
5	3	2																
6	1	↓																
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 voa 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	1liter 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		
WG9AU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WG9FU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JG9FU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

December 20, 2017

Mr. Chris Shaw
SME
5835 W 74th Street
Indianapolis, IN 46278

RE: Project: Convention Center - Hotel Site
Pace Project No.: 50184815

Dear Mr. Shaw:

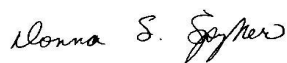
Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report; Modified 8260 list per customer request. dss

Revised Report; Modified 8260 and 8270 lists per customer request. dss

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 003971

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-17-11

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50184815001	GP1-GW	Water	11/17/17 07:55	11/18/17 07:35
50184815002	GP2-GW	Water	11/17/17 09:50	11/18/17 07:35
50184815003	GP3-GW	Water	11/17/17 09:15	11/18/17 07:35
50184815004	DUP-GW	Water	11/17/17 08:00	11/18/17 07:35
50184815005	TB-GW	Water	11/17/17 08:00	11/18/17 07:35

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SAMPLE ANALYTE COUNT

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50184815001	GP1-GW	EPA 6010	FRW	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I
		EPA 8260	CAP	73	PASI-I
50184815002	GP2-GW	EPA 5030/8260	CAP	73	PASI-I
50184815003	GP3-GW	EPA 6010	FRW	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	75	PASI-I
50184815004	DUP-GW	EPA 6010	FRW	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	TBP	19	PASI-I
		EPA 8260	CAP	75	PASI-I
50184815005	TB-GW	EPA 8260	CAP	75	PASI-I
		EPA 8260	CAP	75	PASI-I

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SUMMARY OF DETECTION

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184815001	GP1-GW					
EPA 6010	Barium	56.6	ug/L	10.0	11/24/17 13:36	
50184815003	GP3-GW					
EPA 6010	Barium	58.4	ug/L	10.0	11/24/17 13:48	
50184815004	DUP-GW					
EPA 6010	Barium	63.8	ug/L	10.0	11/24/17 13:50	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: GP1-GW		Lab ID: 50184815001		Collected: 11/17/17 07:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:36	7440-38-2		
Barium	56.6	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:36	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 14:56	11/24/17 13:36	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:36	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:36	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:36	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:36	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:49	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/21/17 11:25	11/22/17 09:51	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/21/17 11:25	11/22/17 09:51	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/21/17 11:25	11/22/17 09:51	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/21/17 11:25	11/22/17 09:51	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/21/17 11:25	11/22/17 09:51	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/21/17 11:25	11/22/17 09:51	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/21/17 11:25	11/22/17 09:51	191-24-2	M1	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/21/17 11:25	11/22/17 09:51	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/21/17 11:25	11/22/17 09:51	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/21/17 11:25	11/22/17 09:51	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/21/17 11:25	11/22/17 09:51	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/21/17 11:25	11/22/17 09:51	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/21/17 11:25	11/22/17 09:51	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/21/17 11:25	11/22/17 09:51	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/21/17 11:25	11/22/17 09:51	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/21/17 11:25	11/22/17 09:51	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/21/17 11:25	11/22/17 09:51	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	71	%.	15-87	1	11/21/17 11:25	11/22/17 09:51	321-60-8		
p-Terphenyl-d14 (S)	70	%.	10-116	1	11/21/17 11:25	11/22/17 09:51	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/22/17 23:05	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/22/17 23:05	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/22/17 23:05	107-13-1		
Benzene	ND	ug/L	5.0	1		11/22/17 23:05	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/22/17 23:05	108-86-1	R1	
Bromochloromethane	ND	ug/L	5.0	1		11/22/17 23:05	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/22/17 23:05	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/22/17 23:05	75-25-2	R1	
Bromomethane	ND	ug/L	5.0	1		11/22/17 23:05	74-83-9	R1	
2-Butanone (MEK)	ND	ug/L	25.0	1		11/22/17 23:05	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/22/17 23:05	104-51-8	R1	
sec-Butylbenzene	ND	ug/L	5.0	1		11/22/17 23:05	135-98-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: GP1-GW		Lab ID: 50184815001	Collected: 11/17/17 07:55	Received: 11/18/17 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/22/17 23:05	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/22/17 23:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/17 23:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/22/17 23:05	108-90-7	R1
Chloroethane	ND	ug/L	5.0	1		11/22/17 23:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/22/17 23:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/22/17 23:05	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/22/17 23:05	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/22/17 23:05	106-43-4	R1
Dibromochloromethane	ND	ug/L	5.0	1		11/22/17 23:05	124-48-1	R1
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/22/17 23:05	106-93-4	R1
Dibromomethane	ND	ug/L	5.0	1		11/22/17 23:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:05	106-46-7	R1
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/22/17 23:05	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/22/17 23:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/17 23:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 23:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/17 23:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 23:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 23:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/22/17 23:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/22/17 23:05	142-28-9	R1
2,2-Dichloropropane	ND	ug/L	5.0	1		11/22/17 23:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/22/17 23:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 23:05	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 23:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 23:05	100-41-4	R1
Ethyl methacrylate	ND	ug/L	100	1		11/22/17 23:05	97-63-2	R1
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/22/17 23:05	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/22/17 23:05	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/22/17 23:05	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/22/17 23:05	74-88-4	R1
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 23:05	98-82-8	R1
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 23:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/22/17 23:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/22/17 23:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/22/17 23:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/22/17 23:05	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/22/17 23:05	103-65-1	
Styrene	ND	ug/L	5.0	1		11/22/17 23:05	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 23:05	630-20-6	R1
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 23:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/17 23:05	127-18-4	L2
Toluene	ND	ug/L	5.0	1		11/22/17 23:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:05	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: GP1-GW		Lab ID: 50184815001		Collected: 11/17/17 07:55		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:05	120-82-1	R1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/17 23:05	71-55-6	R1	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/17 23:05	79-00-5	R1	
Trichloroethene	ND	ug/L	5.0	1		11/22/17 23:05	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/22/17 23:05	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/22/17 23:05	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 23:05	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 23:05	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/22/17 23:05	108-05-4	R1	
Vinyl chloride	ND	ug/L	2.0	1		11/22/17 23:05	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/22/17 23:05	1330-20-7	RS	
Surrogates									
Dibromofluoromethane (S)	101	%.	86-116	1		11/22/17 23:05	1868-53-7		
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/22/17 23:05	460-00-4		
Toluene-d8 (S)	101	%.	86-111	1		11/22/17 23:05	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: GP2-GW		Lab ID: 50184815002	Collected: 11/17/17 09:50	Received: 11/18/17 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		11/23/17 04:04	67-64-1	M5
Acrolein	ND	ug/L	50.0	1		11/23/17 04:04	107-02-8	M5
Acrylonitrile	ND	ug/L	100	1		11/23/17 04:04	107-13-1	M5
Benzene	ND	ug/L	5.0	1		11/23/17 04:04	71-43-2	M5
Bromobenzene	ND	ug/L	5.0	1		11/23/17 04:04	108-86-1	M5
Bromochloromethane	ND	ug/L	5.0	1		11/23/17 04:04	74-97-5	M5
Bromodichloromethane	ND	ug/L	5.0	1		11/23/17 04:04	75-27-4	M5
Bromoform	ND	ug/L	5.0	1		11/23/17 04:04	75-25-2	M5
Bromomethane	ND	ug/L	5.0	1		11/23/17 04:04	74-83-9	M5
2-Butanone (MEK)	ND	ug/L	25.0	1		11/23/17 04:04	78-93-3	M5
n-Butylbenzene	ND	ug/L	5.0	1		11/23/17 04:04	104-51-8	M5
sec-Butylbenzene	ND	ug/L	5.0	1		11/23/17 04:04	135-98-8	M5
tert-Butylbenzene	ND	ug/L	5.0	1		11/23/17 04:04	98-06-6	M5
Carbon disulfide	ND	ug/L	10.0	1		11/23/17 04:04	75-15-0	M5
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/17 04:04	56-23-5	M5
Chlorobenzene	ND	ug/L	5.0	1		11/23/17 04:04	108-90-7	M5
Chloroethane	ND	ug/L	5.0	1		11/23/17 04:04	75-00-3	M5
Chloroform	ND	ug/L	5.0	1		11/23/17 04:04	67-66-3	M5
Chloromethane	ND	ug/L	5.0	1		11/23/17 04:04	74-87-3	M5
2-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 04:04	95-49-8	M5
4-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 04:04	106-43-4	M5
Dibromochloromethane	ND	ug/L	5.0	1		11/23/17 04:04	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/23/17 04:04	106-93-4	M5
Dibromomethane	ND	ug/L	5.0	1		11/23/17 04:04	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 04:04	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 04:04	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 04:04	106-46-7	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/23/17 04:04	110-57-6	M5
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/23/17 04:04	75-71-8	M5
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/17 04:04	75-34-3	M5
1,2-Dichloroethane	ND	ug/L	5.0	1		11/23/17 04:04	107-06-2	M5
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/17 04:04	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 04:04	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 04:04	156-60-5	M5
1,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 04:04	78-87-5	M5
1,3-Dichloropropane	ND	ug/L	5.0	1		11/23/17 04:04	142-28-9	M5
2,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 04:04	594-20-7	M5
1,1-Dichloropropene	ND	ug/L	5.0	1		11/23/17 04:04	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 04:04	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 04:04	10061-02-6	M5
Ethylbenzene	ND	ug/L	5.0	1		11/23/17 04:04	100-41-4	M5
Ethyl methacrylate	ND	ug/L	100	1		11/23/17 04:04	97-63-2	M5
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/23/17 04:04	87-68-3	M5
n-Hexane	ND	ug/L	5.0	1		11/23/17 04:04	110-54-3	M5
2-Hexanone	ND	ug/L	25.0	1		11/23/17 04:04	591-78-6	M5
Iodomethane	ND	ug/L	10.0	1		11/23/17 04:04	74-88-4	M5
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/23/17 04:04	98-82-8	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: GP2-GW		Lab ID: 50184815002	Collected: 11/17/17 09:50	Received: 11/18/17 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		11/23/17 04:04	99-87-6	M5
Methylene Chloride	ND	ug/L	5.0	1		11/23/17 04:04	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/23/17 04:04	108-10-1	M5
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/23/17 04:04	1634-04-4	M5
Naphthalene	ND	ug/L	1.7	1		11/23/17 04:04	91-20-3	M5
n-Propylbenzene	ND	ug/L	5.0	1		11/23/17 04:04	103-65-1	M5
Styrene	ND	ug/L	5.0	1		11/23/17 04:04	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 04:04	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 04:04	79-34-5	M5
Tetrachloroethene	ND	ug/L	5.0	1		11/23/17 04:04	127-18-4	M5
Toluene	ND	ug/L	5.0	1		11/23/17 04:04	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 04:04	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 04:04	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/17 04:04	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/17 04:04	79-00-5	M5
Trichloroethene	ND	ug/L	5.0	1		11/23/17 04:04	79-01-6	M5
Trichlorofluoromethane	ND	ug/L	5.0	1		11/23/17 04:04	75-69-4	M5
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/23/17 04:04	96-18-4	M5
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 04:04	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 04:04	108-67-8	M5
Vinyl acetate	ND	ug/L	50.0	1		11/23/17 04:04	108-05-4	L2,M5
Vinyl chloride	ND	ug/L	2.0	1		11/23/17 04:04	75-01-4	M5
Xylene (Total)	ND	ug/L	10.0	1		11/23/17 04:04	1330-20-7	M5
Surrogates								
Dibromofluoromethane (S)	98	%.	86-116	1		11/23/17 04:04	1868-53-7	M5
4-Bromofluorobenzene (S)	94	%.	84-113	1		11/23/17 04:04	460-00-4	M5
Toluene-d8 (S)	99	%.	86-111	1		11/23/17 04:04	2037-26-5	M5

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: GP3-GW		Lab ID: 50184815003		Collected: 11/17/17 09:15		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:48	7440-38-2		
Barium	58.4	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:48	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 14:56	11/24/17 13:48	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:48	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:48	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:48	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:48	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:55	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 16:55	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 16:55	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 16:55	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 16:55	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 16:55	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 16:55	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 16:55	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 16:55	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/20/17 14:30	11/21/17 16:55	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 16:55	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 16:55	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 16:55	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 16:55	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 16:55	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 16:55	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 16:55	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 16:55	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	59	%.	15-87	1	11/20/17 14:30	11/21/17 16:55	321-60-8		
p-Terphenyl-d14 (S)	75	%.	10-116	1	11/20/17 14:30	11/21/17 16:55	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/22/17 23:40	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/22/17 23:40	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/22/17 23:40	107-13-1		
Benzene	ND	ug/L	5.0	1		11/22/17 23:40	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/22/17 23:40	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/22/17 23:40	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/22/17 23:40	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/22/17 23:40	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/22/17 23:40	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/22/17 23:40	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/22/17 23:40	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/22/17 23:40	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: GP3-GW		Lab ID: 50184815003	Collected: 11/17/17 09:15	Received: 11/18/17 07:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260						
tert-Butylbenzene	ND	ug/L	5.0	1		11/22/17 23:40	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/22/17 23:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/17 23:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/22/17 23:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/22/17 23:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/22/17 23:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/22/17 23:40	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/22/17 23:40	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/22/17 23:40	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/22/17 23:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/22/17 23:40	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/22/17 23:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/22/17 23:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/22/17 23:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/17 23:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 23:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/17 23:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 23:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 23:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/22/17 23:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/22/17 23:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/22/17 23:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/22/17 23:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 23:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 23:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 23:40	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/22/17 23:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/22/17 23:40	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/22/17 23:40	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/22/17 23:40	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/22/17 23:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 23:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 23:40	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/22/17 23:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/22/17 23:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/22/17 23:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		11/22/17 23:40	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		11/22/17 23:40	103-65-1	
Styrene	ND	ug/L	5.0	1		11/22/17 23:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 23:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 23:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/17 23:40	127-18-4	L2
Toluene	ND	ug/L	5.0	1		11/22/17 23:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:40	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: GP3-GW		Lab ID: 50184815003		Collected: 11/17/17 09:15		Received: 11/18/17 07:35		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene		ND	ug/L	5.0	1		11/22/17 23:40	120-82-1	
1,1,1-Trichloroethane		ND	ug/L	5.0	1		11/22/17 23:40	71-55-6	
1,1,2-Trichloroethane		ND	ug/L	5.0	1		11/22/17 23:40	79-00-5	
Trichloroethene		ND	ug/L	5.0	1		11/22/17 23:40	79-01-6	
Trichlorofluoromethane		ND	ug/L	5.0	1		11/22/17 23:40	75-69-4	
1,2,3-Trichloropropane		ND	ug/L	5.0	1		11/22/17 23:40	96-18-4	
1,2,4-Trimethylbenzene		ND	ug/L	5.0	1		11/22/17 23:40	95-63-6	
1,3,5-Trimethylbenzene		ND	ug/L	5.0	1		11/22/17 23:40	108-67-8	
Vinyl acetate		ND	ug/L	50.0	1		11/22/17 23:40	108-05-4	
Vinyl chloride		ND	ug/L	2.0	1		11/22/17 23:40	75-01-4	
Xylene (Total)		ND	ug/L	10.0	1		11/22/17 23:40	1330-20-7	
m&p-Xylene		ND	ug/L	5.0	1		11/22/17 23:40	179601-23-1	
o-Xylene		ND	ug/L	5.0	1		11/22/17 23:40	95-47-6	
Surrogates									
Dibromofluoromethane (S)		97	%.	86-116	1		11/22/17 23:40	1868-53-7	
4-Bromofluorobenzene (S)		91	%.	84-113	1		11/22/17 23:40	460-00-4	
Toluene-d8 (S)		98	%.	86-111	1		11/22/17 23:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: DUP-GW		Lab ID: 50184815004		Collected: 11/17/17 08:00		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:50	7440-38-2		
Barium	63.8	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:50	7440-39-3		
Cadmium	ND	ug/L	2.0	1	11/21/17 14:56	11/24/17 13:50	7440-43-9		
Chromium	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:50	7440-47-3		
Lead	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:50	7439-92-1		
Selenium	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:50	7782-49-2		
Silver	ND	ug/L	10.0	1	11/21/17 14:56	11/24/17 13:50	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	11/28/17 10:36	11/28/17 16:57	7439-97-6		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 17:07	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 17:07	208-96-8		
Anthracene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 17:07	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 17:07	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 17:07	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 17:07	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 17:07	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 17:07	207-08-9		
Chrysene	ND	ug/L	0.50	1	11/20/17 14:30	11/21/17 17:07	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 17:07	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 17:07	206-44-0		
Fluorene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 17:07	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/20/17 14:30	11/21/17 17:07	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 17:07	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 17:07	91-57-6		
Phenanthrene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 17:07	85-01-8		
Pyrene	ND	ug/L	1.0	1	11/20/17 14:30	11/21/17 17:07	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	59	%.	15-87	1	11/20/17 14:30	11/21/17 17:07	321-60-8		
p-Terphenyl-d14 (S)	62	%.	10-116	1	11/20/17 14:30	11/21/17 17:07	1718-51-0		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		11/23/17 04:22	67-64-1		
Acrolein	ND	ug/L	50.0	1		11/23/17 04:22	107-02-8		
Acrylonitrile	ND	ug/L	100	1		11/23/17 04:22	107-13-1		
Benzene	ND	ug/L	5.0	1		11/23/17 04:22	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		11/23/17 04:22	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		11/23/17 04:22	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		11/23/17 04:22	75-27-4		
Bromoform	ND	ug/L	5.0	1		11/23/17 04:22	75-25-2		
Bromomethane	ND	ug/L	5.0	1		11/23/17 04:22	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		11/23/17 04:22	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		11/23/17 04:22	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		11/23/17 04:22	135-98-8		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: DUP-GW		Lab ID: 50184815004		Collected: 11/17/17 08:00		Received: 11/18/17 07:35		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
tert-Butylbenzene	ND	ug/L	5.0	1			11/23/17 04:22	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1			11/23/17 04:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			11/23/17 04:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			11/23/17 04:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1			11/23/17 04:22	75-00-3	
Chloroform	ND	ug/L	5.0	1			11/23/17 04:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1			11/23/17 04:22	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1			11/23/17 04:22	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1			11/23/17 04:22	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1			11/23/17 04:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1			11/23/17 04:22	106-93-4	
Dibromomethane	ND	ug/L	5.0	1			11/23/17 04:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			11/23/17 04:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			11/23/17 04:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			11/23/17 04:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1			11/23/17 04:22	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1			11/23/17 04:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1			11/23/17 04:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			11/23/17 04:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			11/23/17 04:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1			11/23/17 04:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			11/23/17 04:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			11/23/17 04:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1			11/23/17 04:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1			11/23/17 04:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1			11/23/17 04:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			11/23/17 04:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			11/23/17 04:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			11/23/17 04:22	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1			11/23/17 04:22	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1			11/23/17 04:22	87-68-3	
n-Hexane	ND	ug/L	5.0	1			11/23/17 04:22	110-54-3	
2-Hexanone	ND	ug/L	25.0	1			11/23/17 04:22	591-78-6	
Iodomethane	ND	ug/L	10.0	1			11/23/17 04:22	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1			11/23/17 04:22	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1			11/23/17 04:22	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1			11/23/17 04:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1			11/23/17 04:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1			11/23/17 04:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	1			11/23/17 04:22	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1			11/23/17 04:22	103-65-1	
Styrene	ND	ug/L	5.0	1			11/23/17 04:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1			11/23/17 04:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			11/23/17 04:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			11/23/17 04:22	127-18-4	
Toluene	ND	ug/L	5.0	1			11/23/17 04:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1			11/23/17 04:22	87-61-6	

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: DUP-GW		Lab ID: 50184815004		Collected: 11/17/17 08:00		Received: 11/18/17 07:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 04:22	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/17 04:22	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/17 04:22	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/23/17 04:22	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/23/17 04:22	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/23/17 04:22	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 04:22	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 04:22	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/23/17 04:22	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		11/23/17 04:22	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/23/17 04:22	1330-20-7		
m&p-Xylene	ND	ug/L	5.0	1		11/23/17 04:22	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		11/23/17 04:22	95-47-6		
Surrogates									
Dibromofluoromethane (S)	95	%.	86-116	1		11/23/17 04:22	1868-53-7		
4-Bromofluorobenzene (S)	99	%.	84-113	1		11/23/17 04:22	460-00-4		
Toluene-d8 (S)	103	%.	86-111	1		11/23/17 04:22	2037-26-5		

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: TB-GW		Lab ID: 50184815005	Collected: 11/17/17 08:00	Received: 11/18/17 07:35	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		11/23/17 12:20	67-64-1	
Acrolein	ND	ug/L	50.0	1		11/23/17 12:20	107-02-8	
Acrylonitrile	ND	ug/L	100	1		11/23/17 12:20	107-13-1	
Benzene	ND	ug/L	5.0	1		11/23/17 12:20	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		11/23/17 12:20	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		11/23/17 12:20	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/23/17 12:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/23/17 12:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/23/17 12:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		11/23/17 12:20	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:20	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:20	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		11/23/17 12:20	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		11/23/17 12:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/17 12:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/23/17 12:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		11/23/17 12:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/23/17 12:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		11/23/17 12:20	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 12:20	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		11/23/17 12:20	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		11/23/17 12:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/23/17 12:20	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		11/23/17 12:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		11/23/17 12:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		11/23/17 12:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/17 12:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/23/17 12:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 12:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 12:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 12:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/23/17 12:20	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		11/23/17 12:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		11/23/17 12:20	87-68-3	
n-Hexane	ND	ug/L	5.0	1		11/23/17 12:20	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		11/23/17 12:20	591-78-6	
Iodomethane	ND	ug/L	10.0	1		11/23/17 12:20	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/23/17 12:20	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Sample: TB-GW		Lab ID: 50184815005		Collected: 11/17/17 08:00		Received: 11/18/17 07:35		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		11/23/17 12:20	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		11/23/17 12:20	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		11/23/17 12:20	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		11/23/17 12:20	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		11/23/17 12:20	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		11/23/17 12:20	103-65-1		
Styrene	ND	ug/L	5.0	1		11/23/17 12:20	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 12:20	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 12:20	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		11/23/17 12:20	127-18-4		
Toluene	ND	ug/L	5.0	1		11/23/17 12:20	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:20	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		11/23/17 12:20	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/17 12:20	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/17 12:20	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		11/23/17 12:20	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		11/23/17 12:20	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/23/17 12:20	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 12:20	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 12:20	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		11/23/17 12:20	108-05-4	L2	
Vinyl chloride	ND	ug/L	2.0	1		11/23/17 12:20	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		11/23/17 12:20	1330-20-7		
m&p-Xylene	ND	ug/L	5.0	1		11/23/17 12:20	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		11/23/17 12:20	95-47-6		
Surrogates									
Dibromofluoromethane (S)	100	%.	86-116	1		11/23/17 12:20	1868-53-7		
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/23/17 12:20	460-00-4		
Toluene-d8 (S)	100	%.	86-111	1		11/23/17 12:20	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

QC Batch: 416292 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50184815001, 50184815003, 50184815004

METHOD BLANK: 1917177 Matrix: Water

Associated Lab Samples: 50184815001, 50184815003, 50184815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	11/28/17 16:17	

LABORATORY CONTROL SAMPLE: 1917178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917179 1917180

Parameter	Units	50184814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.1	101	103	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917181 1917182

Parameter	Units	50184814004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	93	96	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917183 1917184

Parameter	Units	50184815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	4.9	97	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

QC Batch: 416128 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50184815001, 50184815003, 50184815004

METHOD BLANK: 1916635 Matrix: Water

Associated Lab Samples: 50184815001, 50184815003, 50184815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/24/17 13:10	
Barium	ug/L	ND	10.0	11/24/17 13:10	
Cadmium	ug/L	ND	2.0	11/24/17 13:10	
Chromium	ug/L	ND	10.0	11/24/17 13:10	
Lead	ug/L	ND	10.0	11/24/17 13:10	
Selenium	ug/L	ND	10.0	11/24/17 13:10	
Silver	ug/L	ND	10.0	11/24/17 13:10	

LABORATORY CONTROL SAMPLE: 1916636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1010	101	80-120	
Barium	ug/L	1000	992	99	80-120	
Cadmium	ug/L	1000	966	97	80-120	
Chromium	ug/L	1000	974	97	80-120	
Lead	ug/L	1000	928	93	80-120	
Selenium	ug/L	1000	995	99	80-120	
Silver	ug/L	500	519	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916637 1916638

Parameter	Units	50184815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1070	1090	107	109	75-125	2	20	
Barium	ug/L	56.6	1000	1000	1050	1060	99	100	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	1010	1020	101	102	75-125	1	20	
Chromium	ug/L	ND	1000	1000	968	971	96	97	75-125	0	20	
Lead	ug/L	ND	1000	1000	878	879	88	88	75-125	0	20	
Selenium	ug/L	ND	1000	1000	1030	1070	103	107	75-125	3	20	
Silver	ug/L	ND	500	500	552	562	110	112	75-125	2	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

QC Batch:	416814	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples: 50184815001, 50184815003			

METHOD BLANK: 1919773 Matrix: Water

Associated Lab Samples: 50184815001, 50184815003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/22/17 15:32	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/22/17 15:32	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/22/17 15:32	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/22/17 15:32	
1,1-Dichloroethane	ug/L	ND	5.0	11/22/17 15:32	
1,1-Dichloroethene	ug/L	ND	5.0	11/22/17 15:32	
1,1-Dichloropropene	ug/L	ND	5.0	11/22/17 15:32	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/22/17 15:32	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/22/17 15:32	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/22/17 15:32	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/22/17 15:32	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/22/17 15:32	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/22/17 15:32	
1,2-Dichloroethane	ug/L	ND	5.0	11/22/17 15:32	
1,2-Dichloropropane	ug/L	ND	5.0	11/22/17 15:32	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/22/17 15:32	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/22/17 15:32	
1,3-Dichloropropane	ug/L	ND	5.0	11/22/17 15:32	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/22/17 15:32	
2,2-Dichloropropane	ug/L	ND	5.0	11/22/17 15:32	
2-Butanone (MEK)	ug/L	ND	25.0	11/22/17 15:32	
2-Chlorotoluene	ug/L	ND	5.0	11/22/17 15:32	
2-Hexanone	ug/L	ND	25.0	11/22/17 15:32	
4-Chlorotoluene	ug/L	ND	5.0	11/22/17 15:32	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/22/17 15:32	
Acetone	ug/L	ND	100	11/22/17 15:32	
Acrolein	ug/L	ND	50.0	11/22/17 15:32	
Acrylonitrile	ug/L	ND	100	11/22/17 15:32	
Benzene	ug/L	ND	5.0	11/22/17 15:32	
Bromobenzene	ug/L	ND	5.0	11/22/17 15:32	
Bromochloromethane	ug/L	ND	5.0	11/22/17 15:32	
Bromodichloromethane	ug/L	ND	5.0	11/22/17 15:32	
Bromoform	ug/L	ND	5.0	11/22/17 15:32	
Bromomethane	ug/L	ND	5.0	11/22/17 15:32	
Carbon disulfide	ug/L	ND	10.0	11/22/17 15:32	
Carbon tetrachloride	ug/L	ND	5.0	11/22/17 15:32	
Chlorobenzene	ug/L	ND	5.0	11/22/17 15:32	
Chloroethane	ug/L	ND	5.0	11/22/17 15:32	
Chloroform	ug/L	ND	5.0	11/22/17 15:32	
Chloromethane	ug/L	ND	5.0	11/22/17 15:32	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/22/17 15:32	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

METHOD BLANK: 1919773

Matrix: Water

Associated Lab Samples: 50184815001, 50184815003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/22/17 15:32	
Dibromochloromethane	ug/L	ND	5.0	11/22/17 15:32	
Dibromomethane	ug/L	ND	5.0	11/22/17 15:32	
Dichlorodifluoromethane	ug/L	ND	5.0	11/22/17 15:32	
Ethyl methacrylate	ug/L	ND	100	11/22/17 15:32	
Ethylbenzene	ug/L	ND	5.0	11/22/17 15:32	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/22/17 15:32	
Iodomethane	ug/L	ND	10.0	11/22/17 15:32	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/22/17 15:32	
m&p-Xylene	ug/L	ND	5.0	11/22/17 15:32	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/22/17 15:32	
Methylene Chloride	ug/L	ND	5.0	11/22/17 15:32	
n-Butylbenzene	ug/L	ND	5.0	11/22/17 15:32	
n-Hexane	ug/L	ND	5.0	11/22/17 15:32	
n-Propylbenzene	ug/L	ND	5.0	11/22/17 15:32	
Naphthalene	ug/L	ND	5.0	11/22/17 15:32	
o-Xylene	ug/L	ND	5.0	11/22/17 15:32	
p-Isopropyltoluene	ug/L	ND	5.0	11/22/17 15:32	
sec-Butylbenzene	ug/L	ND	5.0	11/22/17 15:32	
Styrene	ug/L	ND	5.0	11/22/17 15:32	
tert-Butylbenzene	ug/L	ND	5.0	11/22/17 15:32	
Tetrachloroethene	ug/L	ND	5.0	11/22/17 15:32	
Toluene	ug/L	ND	5.0	11/22/17 15:32	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/22/17 15:32	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/22/17 15:32	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/22/17 15:32	
Trichloroethene	ug/L	ND	5.0	11/22/17 15:32	
Trichlorofluoromethane	ug/L	ND	5.0	11/22/17 15:32	
Vinyl acetate	ug/L	ND	50.0	11/22/17 15:32	
Vinyl chloride	ug/L	ND	2.0	11/22/17 15:32	
Xylene (Total)	ug/L	ND	10.0	11/22/17 15:32	
4-Bromofluorobenzene (S)	%	89	84-113	11/22/17 15:32	
Dibromofluoromethane (S)	%	99	86-116	11/22/17 15:32	
Toluene-d8 (S)	%	98	86-111	11/22/17 15:32	

LABORATORY CONTROL SAMPLE: 1919774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.1	96	80-123	
1,1,1-Trichloroethane	ug/L	50	49.1	98	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	74-124	
1,1,2-Trichloroethane	ug/L	50	46.9	94	79-121	
1,1-Dichloroethane	ug/L	50	47.7	95	77-122	
1,1-Dichloroethene	ug/L	50	47.0	94	70-131	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1919774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	44.7	89	79-124	
1,2,3-Trichlorobenzene	ug/L	50	50.8	102	70-129	
1,2,3-Trichloropropane	ug/L	50	55.9	112	79-128	
1,2,4-Trichlorobenzene	ug/L	50	49.7	99	69-129	
1,2,4-Trimethylbenzene	ug/L	50	46.4	93	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	53.7	107	81-123	
1,2-Dichlorobenzene	ug/L	50	48.8	98	77-118	
1,2-Dichloroethane	ug/L	50	47.4	95	72-119	
1,2-Dichloropropane	ug/L	50	51.4	103	78-125	
1,3,5-Trimethylbenzene	ug/L	50	44.2	88	79-123	
1,3-Dichlorobenzene	ug/L	50	47.6	95	74-120	
1,3-Dichloropropane	ug/L	50	50.0	100	80-127	
1,4-Dichlorobenzene	ug/L	50	47.6	95	72-118	
2,2-Dichloropropane	ug/L	50	44.5	89	41-145	
2-Butanone (MEK)	ug/L	250	312	125	61-150	
2-Chlorotoluene	ug/L	50	45.8	92	77-119	
2-Hexanone	ug/L	250	294	118	67-141	
4-Chlorotoluene	ug/L	50	45.8	92	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	265	106	71-131	
Acetone	ug/L	250	312	125	39-166	
Acrolein	ug/L	1000	1310	131	22-200	
Acrylonitrile	ug/L	200	225	113	62-130	
Benzene	ug/L	50	45.1	90	79-120	
Bromobenzene	ug/L	50	52.3	105	76-121	
Bromochloromethane	ug/L	50	47.5	95	69-136	
Bromodichloromethane	ug/L	50	42.4	85	76-125	
Bromoform	ug/L	50	55.1	110	69-119	
Bromomethane	ug/L	50	50.8	102	27-161	
Carbon disulfide	ug/L	50	49.5	99	60-130	
Carbon tetrachloride	ug/L	50	43.1	86	74-132	
Chlorobenzene	ug/L	50	46.9	94	77-116	
Chloroethane	ug/L	50	50.4	101	51-132	
Chloroform	ug/L	50	44.5	89	76-118	
Chloromethane	ug/L	50	50.5	101	46-126	
cis-1,2-Dichloroethene	ug/L	50	44.4	89	74-126	
cis-1,3-Dichloropropene	ug/L	50	44.5	89	78-125	
Dibromochloromethane	ug/L	50	50.2	100	80-123	
Dibromomethane	ug/L	50	47.3	95	75-124	
Dichlorodifluoromethane	ug/L	50	47.3	95	42-152	
Ethyl methacrylate	ug/L	200	189	94	75-136	
Ethylbenzene	ug/L	50	47.7	95	80-123	
Hexachloro-1,3-butadiene	ug/L	50	46.2	92	74-127	
Iodomethane	ug/L	100	79.6	80	43-156	
Isopropylbenzene (Cumene)	ug/L	50	42.5	85	80-122	
m&p-Xylene	ug/L	100	93.7	94	79-121	
Methyl-tert-butyl ether	ug/L	50	47.4	95	63-131	
Methylene Chloride	ug/L	50	46.8	94	62-126	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1919774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/L	50	44.2	88	75-123	
n-Hexane	ug/L	50	37.6	75	66-129	
n-Propylbenzene	ug/L	50	47.5	95	79-128	
Naphthalene	ug/L	50	59.1	118	66-130	
o-Xylene	ug/L	50	48.2	96	79-121	
p-Isopropyltoluene	ug/L	50	43.5	87	79-124	
sec-Butylbenzene	ug/L	50	44.6	89	80-126	
Styrene	ug/L	50	45.8	92	81-125	
tert-Butylbenzene	ug/L	50	36.4	73	62-106	
Tetrachloroethene	ug/L	50	35.1	70	74-119	L2
Toluene	ug/L	50	45.5	91	77-117	
trans-1,2-Dichloroethene	ug/L	50	49.5	99	74-128	
trans-1,3-Dichloropropene	ug/L	50	49.2	98	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	175	88	42-134	
Trichloroethene	ug/L	50	42.3	85	75-119	
Trichlorofluoromethane	ug/L	50	44.9	90	57-152	
Vinyl acetate	ug/L	200	216	108	71-148	
Vinyl chloride	ug/L	50	55.4	111	62-137	
Xylene (Total)	ug/L	150	142	95	79-121	
4-Bromofluorobenzene (S)	%			99	84-113	
Dibromofluoromethane (S)	%			98	86-116	
Toluene-d8 (S)	%			98	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919775 1919776

Parameter	Units	50184815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	36.3	46.4	73	93	48-143	24	20	R1
1,1,1-Trichloroethane	ug/L	ND	50	50	41.5	51.6	83	103	52-142	22	20	R1
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	42.2	51.8	84	104	48-143	20	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	37.9	47.2	76	94	51-139	22	20	R1
1,1-Dichloroethane	ug/L	ND	50	50	40.8	46.8	82	94	53-139	14	20	
1,1-Dichloroethene	ug/L	ND	50	50	45.0	54.0	90	108	50-149	18	20	
1,1-Dichloropropene	ug/L	ND	50	50	38.7	46.7	77	93	52-145	19	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	38.1	46.8	76	94	30-144	20	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	44.0	53.3	88	107	49-149	19	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	38.0	48.0	76	96	24-146	23	20	R1
1,2,4-Trimethylbenzene	ug/L	ND	50	50	37.7	44.1	75	88	33-150	16	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	41.1	51.7	82	103	54-141	23	20	R1
1,2-Dichlorobenzene	ug/L	ND	50	50	38.8	46.9	78	94	33-142	19	20	
1,2-Dichloroethane	ug/L	ND	50	50	38.2	45.3	76	91	47-138	17	20	
1,2-Dichloropropane	ug/L	ND	50	50	43.4	49.2	87	98	55-142	12	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	37.6	44.5	75	89	31-150	17	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	39.3	48.2	79	96	27-145	20	20	
1,3-Dichloropropane	ug/L	ND	50	50	40.3	51.2	81	102	55-145	24	20	R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1919775		1919776							
			MS	MSD								
	50184815001		Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	50	50	38.0	47.8	76	96	27-140	23	20	R1
2,2-Dichloropropane	ug/L	ND	50	50	34.1	40.2	68	80	23-144	17	20	
2-Butanone (MEK)	ug/L	ND	250	250	231	272	92	109	39-159	16	20	
2-Chlorotoluene	ug/L	ND	50	50	37.6	44.6	75	89	31-148	17	20	
2-Hexanone	ug/L	ND	250	250	238	289	95	116	47-151	19	20	
4-Chlorotoluene	ug/L	ND	50	50	37.3	45.9	75	92	30-148	21	20	R1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	215	263	86	105	48-146	20	20	
Acetone	ug/L	ND	250	250	213	239	85	96	31-152	11	20	
Acrolein	ug/L	ND	1000	1000	940	1120	94	112	23-200	17	20	
Acrylonitrile	ug/L	ND	200	200	183	212	92	106	42-143	14	20	
Benzene	ug/L	ND	50	50	39.0	45.3	78	91	57-136	15	20	
Bromobenzene	ug/L	ND	50	50	42.0	52.1	84	104	45-138	21	20	R1
Bromochloromethane	ug/L	ND	50	50	39.8	46.8	80	94	50-145	16	20	
Bromodichloromethane	ug/L	ND	50	50	35.4	40.6	71	81	49-142	14	20	
Bromoform	ug/L	ND	50	50	42.5	53.7	85	107	39-131	23	20	R1
Bromomethane	ug/L	ND	50	50	38.1	57.7	76	115	10-162	41	20	R1
Carbon disulfide	ug/L	ND	50	50	44.1	52.5	88	105	34-142	17	20	
Carbon tetrachloride	ug/L	ND	50	50	37.6	45.5	75	91	47-150	19	20	
Chlorobenzene	ug/L	ND	50	50	38.7	48.1	77	96	42-138	22	20	R1
Chloroethane	ug/L	ND	50	50	44.9	52.5	90	105	34-148	16	20	
Chloroform	ug/L	ND	50	50	38.7	44.5	77	89	54-136	14	20	
Chloromethane	ug/L	ND	50	50	43.0	51.0	86	102	27-138	17	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	37.2	43.9	74	88	48-147	16	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	34.3	43.0	69	86	40-142	22	20	R1
Dibromochloromethane	ug/L	ND	50	50	38.3	48.8	77	98	46-143	24	20	R1
Dibromomethane	ug/L	ND	50	50	38.2	46.2	76	92	53-140	19	20	
Dichlorodifluoromethane	ug/L	ND	50	50	43.8	51.1	88	102	23-169	15	20	
Ethyl methacrylate	ug/L	ND	200	200	148	187	74	93	54-149	23	20	R1
Ethylbenzene	ug/L	ND	50	50	38.8	50.4	78	101	40-147	26	20	R1
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.7	44.8	73	90	19-156	20	20	
Iodomethane	ug/L	ND	100	100	49.7	78.1	50	78	13-136	44	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	36.9	45.5	74	91	37-151	21	20	R1
m&p-Xylene	ug/L	ND	100	100	78.0	93.6	78	94	37-146	18	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	38.2	45.5	76	91	46-147	17	20	
Methylene Chloride	ug/L	ND	50	50	35.0	40.5	70	81	40-138	14	20	
n-Butylbenzene	ug/L	ND	50	50	35.4	44.4	71	89	21-155	23	20	R1
n-Hexane	ug/L	ND	50	50	37.1	40.8	74	82	50-137	9	20	
n-Propylbenzene	ug/L	ND	50	50	39.7	48.0	79	96	29-158	19	20	
Naphthalene	ug/L	ND	50	50	45.5	55.5	91	111	43-139	20	20	
o-Xylene	ug/L	ND	50	50	38.1	47.5	76	95	37-146	22	20	R1
p-Isopropyltoluene	ug/L	ND	50	50	38.9	44.9	78	90	25-156	14	20	
sec-Butylbenzene	ug/L	ND	50	50	38.8	47.1	78	94	27-159	19	20	
Styrene	ug/L	ND	50	50	37.0	45.7	74	91	34-149	21	20	R1
tert-Butylbenzene	ug/L	ND	50	50	31.8	38.2	64	76	25-128	18	20	
Tetrachloroethene	ug/L	ND	50	50	31.9	38.1	64	76	37-144	18	20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919775 1919776												
Parameter	Units	50184815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Toluene	ug/L	ND	50	50	39.6	48.2	79	96	46-137	19	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.9	50.2	84	100	51-145	18	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	39.0	47.5	78	95	41-143	20	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	132	166	66	83	10-145	23	20	R1
Trichloroethene	ug/L	ND	50	50	37.4	42.9	75	86	45-139	14	20	
Trichlorofluoromethane	ug/L	ND	50	50	43.9	48.9	88	98	42-164	11	20	
Vinyl acetate	ug/L	ND	200	200	139	171	70	86	10-149	21	20	R1
Vinyl chloride	ug/L	ND	50	50	48.3	58.8	97	118	43-154	20	20	
Xylene (Total)	ug/L	ND	150	150	116	141	77	94	37-146	19	20	RS
4-Bromofluorobenzene (S)	%.						98	102	84-113			
Dibromofluoromethane (S)	%.						102	101	86-116			
Toluene-d8 (S)	%.						96	100	86-111			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

QC Batch: 416824

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50184815005

METHOD BLANK: 1919839

Matrix: Water

Associated Lab Samples: 50184815005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/23/17 03:29	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/23/17 03:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/23/17 03:29	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/23/17 03:29	
1,1-Dichloroethane	ug/L	ND	5.0	11/23/17 03:29	
1,1-Dichloroethene	ug/L	ND	5.0	11/23/17 03:29	
1,1-Dichloropropene	ug/L	ND	5.0	11/23/17 03:29	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/23/17 03:29	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/23/17 03:29	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/23/17 03:29	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	
1,2-Dichloroethane	ug/L	ND	5.0	11/23/17 03:29	
1,2-Dichloropropane	ug/L	ND	5.0	11/23/17 03:29	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/23/17 03:29	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	
1,3-Dichloropropane	ug/L	ND	5.0	11/23/17 03:29	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	
2,2-Dichloropropane	ug/L	ND	5.0	11/23/17 03:29	
2-Butanone (MEK)	ug/L	ND	25.0	11/23/17 03:29	
2-Chlorotoluene	ug/L	ND	5.0	11/23/17 03:29	
2-Hexanone	ug/L	ND	25.0	11/23/17 03:29	
4-Chlorotoluene	ug/L	ND	5.0	11/23/17 03:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/23/17 03:29	
Acetone	ug/L	ND	100	11/23/17 03:29	
Acrolein	ug/L	ND	50.0	11/23/17 03:29	
Acrylonitrile	ug/L	ND	100	11/23/17 03:29	
Benzene	ug/L	ND	5.0	11/23/17 03:29	
Bromobenzene	ug/L	ND	5.0	11/23/17 03:29	
Bromochloromethane	ug/L	ND	5.0	11/23/17 03:29	
Bromodichloromethane	ug/L	ND	5.0	11/23/17 03:29	
Bromoform	ug/L	ND	5.0	11/23/17 03:29	
Bromomethane	ug/L	ND	5.0	11/23/17 03:29	
Carbon disulfide	ug/L	ND	10.0	11/23/17 03:29	
Carbon tetrachloride	ug/L	ND	5.0	11/23/17 03:29	
Chlorobenzene	ug/L	ND	5.0	11/23/17 03:29	
Chloroethane	ug/L	ND	5.0	11/23/17 03:29	
Chloroform	ug/L	ND	5.0	11/23/17 03:29	
Chloromethane	ug/L	ND	5.0	11/23/17 03:29	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/23/17 03:29	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

METHOD BLANK: 1919839

Matrix: Water

Associated Lab Samples: 50184815005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/23/17 03:29	
Dibromochloromethane	ug/L	ND	5.0	11/23/17 03:29	
Dibromomethane	ug/L	ND	5.0	11/23/17 03:29	
Dichlorodifluoromethane	ug/L	ND	5.0	11/23/17 03:29	
Ethyl methacrylate	ug/L	ND	100	11/23/17 03:29	
Ethylbenzene	ug/L	ND	5.0	11/23/17 03:29	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/23/17 03:29	
Iodomethane	ug/L	ND	10.0	11/23/17 03:29	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/23/17 03:29	
m&p-Xylene	ug/L	ND	5.0	11/23/17 03:29	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/23/17 03:29	
Methylene Chloride	ug/L	ND	5.0	11/23/17 03:29	
n-Butylbenzene	ug/L	ND	5.0	11/23/17 03:29	
n-Hexane	ug/L	ND	5.0	11/23/17 03:29	
n-Propylbenzene	ug/L	ND	5.0	11/23/17 03:29	
Naphthalene	ug/L	ND	5.0	11/23/17 03:29	
o-Xylene	ug/L	ND	5.0	11/23/17 03:29	
p-Isopropyltoluene	ug/L	ND	5.0	11/23/17 03:29	
sec-Butylbenzene	ug/L	ND	5.0	11/23/17 03:29	
Styrene	ug/L	ND	5.0	11/23/17 03:29	
tert-Butylbenzene	ug/L	ND	5.0	11/23/17 03:29	
Tetrachloroethene	ug/L	ND	5.0	11/23/17 03:29	
Toluene	ug/L	ND	5.0	11/23/17 03:29	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/23/17 03:29	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/23/17 03:29	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/23/17 03:29	
Trichloroethene	ug/L	ND	5.0	11/23/17 03:29	
Trichlorofluoromethane	ug/L	ND	5.0	11/23/17 03:29	
Vinyl acetate	ug/L	ND	50.0	11/23/17 03:29	
Vinyl chloride	ug/L	ND	2.0	11/23/17 03:29	
Xylene (Total)	ug/L	ND	10.0	11/23/17 03:29	
4-Bromofluorobenzene (S)	%	100	84-113	11/23/17 03:29	
Dibromofluoromethane (S)	%	97	86-116	11/23/17 03:29	
Toluene-d8 (S)	%	100	86-111	11/23/17 03:29	

LABORATORY CONTROL SAMPLE: 1919840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	80-123	
1,1,1-Trichloroethane	ug/L	50	55.0	110	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	74-124	
1,1,2-Trichloroethane	ug/L	50	52.6	105	79-121	
1,1-Dichloroethane	ug/L	50	53.9	108	77-122	
1,1-Dichloroethene	ug/L	50	56.9	114	70-131	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1919840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	54.4	109	79-124	
1,2,3-Trichlorobenzene	ug/L	50	46.5	93	70-129	
1,2,3-Trichloropropane	ug/L	50	55.8	112	79-128	
1,2,4-Trichlorobenzene	ug/L	50	47.7	95	69-129	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	52.7	105	81-123	
1,2-Dichlorobenzene	ug/L	50	50.9	102	77-118	
1,2-Dichloroethane	ug/L	50	46.3	93	72-119	
1,2-Dichloropropane	ug/L	50	54.3	109	78-125	
1,3,5-Trimethylbenzene	ug/L	50	50.3	101	79-123	
1,3-Dichlorobenzene	ug/L	50	51.1	102	74-120	
1,3-Dichloropropane	ug/L	50	54.2	108	80-127	
1,4-Dichlorobenzene	ug/L	50	50.9	102	72-118	
2,2-Dichloropropane	ug/L	50	40.3	81	41-145	
2-Butanone (MEK)	ug/L	250	288	115	61-150	
2-Chlorotoluene	ug/L	50	52.1	104	77-119	
2-Hexanone	ug/L	250	273	109	67-141	
4-Chlorotoluene	ug/L	50	49.9	100	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	250	100	71-131	
Acetone	ug/L	250	283	113	39-166	
Acrolein	ug/L	1000	814	81	22-200	
Acrylonitrile	ug/L	200	221	110	62-130	
Benzene	ug/L	50	50.9	102	79-120	
Bromobenzene	ug/L	50	49.2	98	76-121	
Bromochloromethane	ug/L	50	57.1	114	69-136	
Bromodichloromethane	ug/L	50	51.3	103	76-125	
Bromoform	ug/L	50	56.7	113	69-119	
Bromomethane	ug/L	50	57.0	114	27-161	
Carbon disulfide	ug/L	50	56.3	113	60-130	
Carbon tetrachloride	ug/L	50	56.1	112	74-132	
Chlorobenzene	ug/L	50	49.6	99	77-116	
Chloroethane	ug/L	50	54.0	108	51-132	
Chloroform	ug/L	50	53.6	107	76-118	
Chloromethane	ug/L	50	59.4	119	46-126	
cis-1,2-Dichloroethene	ug/L	50	52.1	104	74-126	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	78-125	
Dibromochloromethane	ug/L	50	52.9	106	80-123	
Dibromomethane	ug/L	50	51.0	102	75-124	
Dichlorodifluoromethane	ug/L	50	58.2	116	42-152	
Ethyl methacrylate	ug/L	200	231	115	75-136	
Ethylbenzene	ug/L	50	50.5	101	80-123	
Hexachloro-1,3-butadiene	ug/L	50	51.5	103	74-127	
Iodomethane	ug/L	100	132	132	43-156	
Isopropylbenzene (Cumene)	ug/L	50	50.6	101	80-122	
m&p-Xylene	ug/L	100	97.3	97	79-121	
Methyl-tert-butyl ether	ug/L	50	50.3	101	63-131	
Methylene Chloride	ug/L	50	52.5	105	62-126	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1919840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/L	50	51.8	104	75-123	
n-Hexane	ug/L	50	55.5	111	66-129	
n-Propylbenzene	ug/L	50	50.0	100	79-128	
Naphthalene	ug/L	50	58.7	117	66-130	
o-Xylene	ug/L	50	50.0	100	79-121	
p-Isopropyltoluene	ug/L	50	51.0	102	79-124	
sec-Butylbenzene	ug/L	50	47.9	96	80-126	
Styrene	ug/L	50	51.8	104	81-125	
tert-Butylbenzene	ug/L	50	41.7	83	62-106	
Tetrachloroethene	ug/L	50	48.4	97	74-119	
Toluene	ug/L	50	50.0	100	77-117	
trans-1,2-Dichloroethene	ug/L	50	53.9	108	74-128	
trans-1,3-Dichloropropene	ug/L	50	53.3	107	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	161	80	42-134	
Trichloroethene	ug/L	50	57.8	116	75-119	
Trichlorofluoromethane	ug/L	50	60.2	120	57-152	
Vinyl acetate	ug/L	200	135	68	71-148 L2	
Vinyl chloride	ug/L	50	59.9	120	62-137	
Xylene (Total)	ug/L	150	147	98	79-121	
4-Bromofluorobenzene (S)	%			100	84-113	
Dibromofluoromethane (S)	%			98	86-116	
Toluene-d8 (S)	%			100	86-111	

MATRIX SPIKE SAMPLE: 1919841

Parameter	Units	50184805013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	47.3	95	48-143	
1,1,1-Trichloroethane	ug/L	ND	50	57.0	111	52-142	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	48.5	97	48-143	
1,1,2-Trichloroethane	ug/L	ND	50	50.0	100	51-139	
1,1-Dichloroethane	ug/L	ND	50	54.6	105	53-139	
1,1-Dichloroethene	ug/L	ND	50	59.3	119	50-149	
1,1-Dichloropropene	ug/L	ND	50	56.1	112	52-145	
1,2,3-Trichlorobenzene	ug/L	ND	50	42.7	85	30-144	
1,2,3-Trichloropropane	ug/L	ND	50	51.8	104	49-149	
1,2,4-Trichlorobenzene	ug/L	ND	50	41.9	84	24-146	
1,2,4-Trimethylbenzene	ug/L	ND	50	47.9	96	33-150	
1,2-Dibromoethane (EDB)	ug/L	ND	50	47.8	96	54-141	
1,2-Dichlorobenzene	ug/L	ND	50	48.6	97	33-142	
1,2-Dichloroethane	ug/L	ND	50	44.2	88	47-138	
1,2-Dichloropropane	ug/L	ND	50	51.5	103	55-142	
1,3,5-Trimethylbenzene	ug/L	ND	50	47.8	96	31-150	
1,3-Dichlorobenzene	ug/L	ND	50	47.8	96	27-145	
1,3-Dichloropropane	ug/L	ND	50	51.5	103	55-145	
1,4-Dichlorobenzene	ug/L	ND	50	47.3	95	27-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

MATRIX SPIKE SAMPLE:		1919841	50184805013	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
2,2-Dichloropropane	ug/L	ND	50	31.0	62	23-144		
2-Butanone (MEK)	ug/L	ND	250	238	95	39-159		
2-Chlorotoluene	ug/L	ND	50	49.2	98	31-148		
2-Hexanone	ug/L	ND	250	225	90	47-151		
4-Chlorotoluene	ug/L	ND	50	47.9	96	30-148		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	218	87	48-146		
Acetone	ug/L	ND	250	216	87	31-152		
Acrolein	ug/L	ND	1000	850	85	23-200		
Acrylonitrile	ug/L	ND	200	196	98	42-143		
Benzene	ug/L	ND	50	49.4	99	57-136		
Bromobenzene	ug/L	ND	50	46.1	92	45-138		
Bromochloromethane	ug/L	ND	50	56.1	112	50-145		
Bromodichloromethane	ug/L	ND	50	50.2	100	49-142		
Bromoform	ug/L	ND	50	50.5	101	39-131		
Bromomethane	ug/L	ND	50	29.8	60	10-162		
Carbon disulfide	ug/L	ND	50	55.8	112	34-142		
Carbon tetrachloride	ug/L	ND	50	56.5	113	47-150		
Chlorobenzene	ug/L	ND	50	44.9	90	42-138		
Chloroethane	ug/L	ND	50	54.3	109	34-148		
Chloroform	ug/L	ND	50	51.9	104	54-136		
Chloromethane	ug/L	ND	50	51.5	103	27-138		
cis-1,2-Dichloroethene	ug/L	ND	50	52.9	106	48-147		
cis-1,3-Dichloropropene	ug/L	ND	50	47.3	95	40-142		
Dibromochloromethane	ug/L	ND	50	48.1	96	46-143		
Dibromomethane	ug/L	ND	50	49.8	100	53-140		
Dichlorodifluoromethane	ug/L	ND	50	54.9	110	23-169		
Ethyl methacrylate	ug/L	ND	200	204	102	54-149		
Ethylbenzene	ug/L	ND	50	47.7	95	40-147		
Hexachloro-1,3-butadiene	ug/L	ND	50	44.8	90	19-156		
Iodomethane	ug/L	ND	100	90.8	86	13-136		
Isopropylbenzene (Cumene)	ug/L	ND	50	48.6	97	37-151		
m&p-Xylene	ug/L	ND	100	91.9	92	37-146		
Methyl-tert-butyl ether	ug/L	ND	50	47.1	94	46-147		
Methylene Chloride	ug/L	ND	50	44.2	88	40-138		
n-Butylbenzene	ug/L	ND	50	48.3	97	21-155		
n-Hexane	ug/L	ND	50	54.0	108	50-137		
n-Propylbenzene	ug/L	ND	50	46.9	94	29-158		
Naphthalene	ug/L	ND	50	51.3	103	43-139		
o-Xylene	ug/L	ND	50	47.6	95	37-146		
p-Isopropyltoluene	ug/L	ND	50	48.5	97	25-156		
sec-Butylbenzene	ug/L	ND	50	45.7	91	27-159		
Styrene	ug/L	ND	50	47.3	95	34-149		
tert-Butylbenzene	ug/L	ND	50	39.4	79	25-128		
Tetrachloroethene	ug/L	ND	50	46.4	93	37-144		
Toluene	ug/L	ND	50	47.4	95	46-137		
trans-1,2-Dichloroethene	ug/L	ND	50	54.6	109	51-145		
trans-1,3-Dichloropropene	ug/L	ND	50	46.7	93	41-143		

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

MATRIX SPIKE SAMPLE: 1919841		50184805013	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	200	130	65	10-145	
Trichloroethene	ug/L	ND	50	52.6	105	45-139	
Trichlorofluoromethane	ug/L	ND	50	62.4	125	42-164	
Vinyl acetate	ug/L	ND	200	107	53	10-149	
Vinyl chloride	ug/L	ND	50	57.7	115	43-154	
Xylene (Total)	ug/L	ND	150	139	93	37-146	
4-Bromofluorobenzene (S)	%				102	84-113	
Dibromofluoromethane (S)	%				100	86-116	
Toluene-d8 (S)	%				99	86-111	

SAMPLE DUPLICATE: 1919842

Parameter	Units	50184805014	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichlorobenzene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trichlorobenzene	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Chlorotoluene	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Chlorotoluene	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromobenzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

SAMPLE DUPLICATE: 1919842

Parameter	Units	50184805014 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	9.7	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethyl methacrylate	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Hexachloro-1,3-butadiene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
m&p-Xylene	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
n-Butylbenzene	ug/L	ND	ND		20	
n-Hexane	ug/L	ND	ND		20	
n-Propylbenzene	ug/L	ND	ND		20	
Naphthalene	ug/L	ND	ND		20	
o-Xylene	ug/L	ND	ND		20	
p-Isopropyltoluene	ug/L	ND	ND		20	
sec-Butylbenzene	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
tert-Butylbenzene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	97	100	3		
Dibromofluoromethane (S)	%.	99	103	3		
Toluene-d8 (S)	%.	98	97	1		

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

QC Batch: 416825

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50184815004

METHOD BLANK: 1919846

Matrix: Water

Associated Lab Samples: 50184815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1-Dichloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,1-Dichloroethene	ug/L	ND	5.0	11/23/17 03:46	
1,1-Dichloropropene	ug/L	ND	5.0	11/23/17 03:46	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/23/17 03:46	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/23/17 03:46	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/23/17 03:46	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
1,2-Dichloroethane	ug/L	ND	5.0	11/23/17 03:46	
1,2-Dichloropropane	ug/L	ND	5.0	11/23/17 03:46	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/23/17 03:46	
1,3-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
1,3-Dichloropropane	ug/L	ND	5.0	11/23/17 03:46	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
2,2-Dichloropropane	ug/L	ND	5.0	11/23/17 03:46	
2-Butanone (MEK)	ug/L	ND	25.0	11/23/17 03:46	
2-Chlorotoluene	ug/L	ND	5.0	11/23/17 03:46	
2-Hexanone	ug/L	ND	25.0	11/23/17 03:46	
4-Chlorotoluene	ug/L	ND	5.0	11/23/17 03:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/23/17 03:46	
Acetone	ug/L	ND	100	11/23/17 03:46	
Acrolein	ug/L	ND	50.0	11/23/17 03:46	
Acrylonitrile	ug/L	ND	100	11/23/17 03:46	
Benzene	ug/L	ND	5.0	11/23/17 03:46	
Bromobenzene	ug/L	ND	5.0	11/23/17 03:46	
Bromochloromethane	ug/L	ND	5.0	11/23/17 03:46	
Bromodichloromethane	ug/L	ND	5.0	11/23/17 03:46	
Bromoform	ug/L	ND	5.0	11/23/17 03:46	
Bromomethane	ug/L	ND	5.0	11/23/17 03:46	
Carbon disulfide	ug/L	ND	10.0	11/23/17 03:46	
Carbon tetrachloride	ug/L	ND	5.0	11/23/17 03:46	
Chlorobenzene	ug/L	ND	5.0	11/23/17 03:46	
Chloroethane	ug/L	ND	5.0	11/23/17 03:46	
Chloroform	ug/L	ND	5.0	11/23/17 03:46	
Chloromethane	ug/L	ND	5.0	11/23/17 03:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/23/17 03:46	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

METHOD BLANK: 1919846

Matrix: Water

Associated Lab Samples: 50184815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/23/17 03:46	
Dibromochloromethane	ug/L	ND	5.0	11/23/17 03:46	
Dibromomethane	ug/L	ND	5.0	11/23/17 03:46	
Dichlorodifluoromethane	ug/L	ND	5.0	11/23/17 03:46	
Ethyl methacrylate	ug/L	ND	100	11/23/17 03:46	
Ethylbenzene	ug/L	ND	5.0	11/23/17 03:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/23/17 03:46	
Iodomethane	ug/L	ND	10.0	11/23/17 03:46	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/23/17 03:46	
m&p-Xylene	ug/L	ND	5.0	11/23/17 03:46	
Methyl-tert-butyl ether	ug/L	ND	4.0	11/23/17 03:46	
Methylene Chloride	ug/L	ND	5.0	11/23/17 03:46	
n-Butylbenzene	ug/L	ND	5.0	11/23/17 03:46	
n-Hexane	ug/L	ND	5.0	11/23/17 03:46	
n-Propylbenzene	ug/L	ND	5.0	11/23/17 03:46	
Naphthalene	ug/L	ND	5.0	11/23/17 03:46	
o-Xylene	ug/L	ND	5.0	11/23/17 03:46	
p-Isopropyltoluene	ug/L	ND	5.0	11/23/17 03:46	
sec-Butylbenzene	ug/L	ND	5.0	11/23/17 03:46	
Styrene	ug/L	ND	5.0	11/23/17 03:46	
tert-Butylbenzene	ug/L	ND	5.0	11/23/17 03:46	
Tetrachloroethene	ug/L	ND	5.0	11/23/17 03:46	
Toluene	ug/L	ND	5.0	11/23/17 03:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/23/17 03:46	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/23/17 03:46	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/23/17 03:46	
Trichloroethene	ug/L	ND	5.0	11/23/17 03:46	
Trichlorofluoromethane	ug/L	ND	5.0	11/23/17 03:46	
Vinyl acetate	ug/L	ND	50.0	11/23/17 03:46	
Vinyl chloride	ug/L	ND	2.0	11/23/17 03:46	
Xylene (Total)	ug/L	ND	10.0	11/23/17 03:46	
4-Bromofluorobenzene (S)	%	95	84-113	11/23/17 03:46	
Dibromofluoromethane (S)	%	100	86-116	11/23/17 03:46	
Toluene-d8 (S)	%	99	86-111	11/23/17 03:46	

LABORATORY CONTROL SAMPLE: 1919847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.4	105	80-123	
1,1,1-Trichloroethane	ug/L	50	52.3	105	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	54.4	109	74-124	
1,1,2-Trichloroethane	ug/L	50	48.3	97	79-121	
1,1-Dichloroethane	ug/L	50	51.4	103	77-122	
1,1-Dichloroethene	ug/L	50	53.9	108	70-131	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1919847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	48.5	97	79-124	
1,2,3-Trichlorobenzene	ug/L	50	51.1	102	70-129	
1,2,3-Trichloropropane	ug/L	50	58.2	116	79-128	
1,2,4-Trichlorobenzene	ug/L	50	49.8	100	69-129	
1,2,4-Trimethylbenzene	ug/L	50	49.1	98	76-125	
1,2-Dibromoethane (EDB)	ug/L	50	55.5	111	81-123	
1,2-Dichlorobenzene	ug/L	50	51.0	102	77-118	
1,2-Dichloroethane	ug/L	50	49.3	99	72-119	
1,2-Dichloropropane	ug/L	50	54.8	110	78-125	
1,3,5-Trimethylbenzene	ug/L	50	47.6	95	79-123	
1,3-Dichlorobenzene	ug/L	50	49.7	99	74-120	
1,3-Dichloropropane	ug/L	50	54.4	109	80-127	
1,4-Dichlorobenzene	ug/L	50	50.3	101	72-118	
2,2-Dichloropropane	ug/L	50	36.1	72	41-145	
2-Butanone (MEK)	ug/L	250	325	130	61-150	
2-Chlorotoluene	ug/L	50	48.8	98	77-119	
2-Hexanone	ug/L	250	323	129	67-141	
4-Chlorotoluene	ug/L	50	49.4	99	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	287	115	71-131	
Acetone	ug/L	250	321	129	39-166	
Acrolein	ug/L	1000	1330	133	22-200	
Acrylonitrile	ug/L	200	253	126	62-130	
Benzene	ug/L	50	50.4	101	79-120	
Bromobenzene	ug/L	50	54.3	109	76-121	
Bromochloromethane	ug/L	50	51.6	103	69-136	
Bromodichloromethane	ug/L	50	46.8	94	76-125	
Bromoform	ug/L	50	58.6	117	69-119	
Bromomethane	ug/L	50	62.8	126	27-161	
Carbon disulfide	ug/L	50	54.9	110	60-130	
Carbon tetrachloride	ug/L	50	48.2	96	74-132	
Chlorobenzene	ug/L	50	50.8	102	77-116	
Chloroethane	ug/L	50	56.7	113	51-132	
Chloroform	ug/L	50	48.9	98	76-118	
Chloromethane	ug/L	50	55.5	111	46-126	
cis-1,2-Dichloroethene	ug/L	50	46.3	93	74-126	
cis-1,3-Dichloropropene	ug/L	50	44.7	89	78-125	
Dibromochloromethane	ug/L	50	53.3	107	80-123	
Dibromomethane	ug/L	50	50.8	102	75-124	
Dichlorodifluoromethane	ug/L	50	55.6	111	42-152	
Ethyl methacrylate	ug/L	200	207	103	75-136	
Ethylbenzene	ug/L	50	50.7	101	80-123	
Hexachloro-1,3-butadiene	ug/L	50	46.0	92	74-127	
Iodomethane	ug/L	100	86.9	87	43-156	
Isopropylbenzene (Cumene)	ug/L	50	46.3	93	80-122	
m&p-Xylene	ug/L	100	101	101	79-121	
Methyl-tert-butyl ether	ug/L	50	53.1	106	63-131	
Methylene Chloride	ug/L	50	51.9	104	62-126	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1919847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/L	50	44.5	89	75-123	
n-Hexane	ug/L	50	43.0	86	66-129	
n-Propylbenzene	ug/L	50	49.7	99	79-128	
Naphthalene	ug/L	50	61.4	123	66-130	
o-Xylene	ug/L	50	49.9	100	79-121	
p-Isopropyltoluene	ug/L	50	46.1	92	79-124	
sec-Butylbenzene	ug/L	50	46.4	93	80-126	
Styrene	ug/L	50	49.5	99	81-125	
tert-Butylbenzene	ug/L	50	39.6	79	62-106	
Tetrachloroethene	ug/L	50	38.6	77	74-119	
Toluene	ug/L	50	50.8	102	77-117	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	74-128	
trans-1,3-Dichloropropene	ug/L	50	50.8	102	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	172	86	42-134	
Trichloroethene	ug/L	50	48.1	96	75-119	
Trichlorofluoromethane	ug/L	50	50.9	102	57-152	
Vinyl acetate	ug/L	200	161	81	71-148	
Vinyl chloride	ug/L	50	59.8	120	62-137	
Xylene (Total)	ug/L	150	151	100	79-121	
4-Bromofluorobenzene (S)	%			99	84-113	
Dibromofluoromethane (S)	%			102	86-116	
Toluene-d8 (S)	%			99	86-111	

MATRIX SPIKE SAMPLE: 1919848

Parameter	Units	50184453003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	44.5	89	48-143	
1,1,1-Trichloroethane	ug/L	ND	50	50.0	100	52-142	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	45.0	90	48-143	
1,1,2-Trichloroethane	ug/L	ND	50	43.9	88	51-139	
1,1-Dichloroethane	ug/L	ND	50	45.3	91	53-139	
1,1-Dichloroethene	ug/L	ND	50	50.3	101	50-149	
1,1-Dichloropropene	ug/L	ND	50	45.4	91	52-145	
1,2,3-Trichlorobenzene	ug/L	ND	50	38.9	78	30-144	
1,2,3-Trichloropropane	ug/L	ND	50	46.3	93	49-149	
1,2,4-Trichlorobenzene	ug/L	ND	50	41.0	82	24-146	
1,2,4-Trimethylbenzene	ug/L	ND	50	43.2	86	33-150	
1,2-Dibromoethane (EDB)	ug/L	ND	50	48.4	97	54-141	
1,2-Dichlorobenzene	ug/L	ND	50	44.8	90	33-142	
1,2-Dichloroethane	ug/L	ND	50	43.2	86	47-138	
1,2-Dichloropropane	ug/L	ND	50	49.4	99	55-142	
1,3,5-Trimethylbenzene	ug/L	ND	50	41.5	83	31-150	
1,3-Dichlorobenzene	ug/L	ND	50	44.6	89	27-145	
1,3-Dichloropropane	ug/L	ND	50	46.9	94	55-145	
1,4-Dichlorobenzene	ug/L	ND	50	44.7	89	27-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

MATRIX SPIKE SAMPLE:	1919848	50184453003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
2,2-Dichloropropane	ug/L	ND	50	26.8	54	23-144	
2-Butanone (MEK)	ug/L	ND	250	254	102	39-159	
2-Chlorotoluene	ug/L	ND	50	42.7	85	31-148	
2-Hexanone	ug/L	ND	250	265	106	47-151	
4-Chlorotoluene	ug/L	ND	50	44.0	88	30-148	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	241	96	48-146	
Acetone	ug/L	ND	250	238	90	31-152	
Acrolein	ug/L	ND	1000	900	90	23-200	
Acrylonitrile	ug/L	ND	200	201	100	42-143	
Benzene	ug/L	ND	50	44.2	88	57-136	
Bromobenzene	ug/L	ND	50	49.7	99	45-138	
Bromochloromethane	ug/L	ND	50	43.0	86	50-145	
Bromodichloromethane	ug/L	ND	50	40.6	81	49-142	
Bromoform	ug/L	ND	50	46.5	93	39-131	
Bromomethane	ug/L	ND	50	49.1	98	10-162	
Carbon disulfide	ug/L	ND	50	51.5	103	34-142	
Carbon tetrachloride	ug/L	ND	50	44.0	88	47-150	
Chlorobenzene	ug/L	ND	50	47.0	94	42-138	
Chloroethane	ug/L	ND	50	51.8	104	34-148	
Chloroform	ug/L	ND	50	44.9	90	54-136	
Chloromethane	ug/L	ND	50	49.3	99	27-138	
cis-1,2-Dichloroethene	ug/L	ND	50	43.3	87	48-147	
cis-1,3-Dichloropropene	ug/L	ND	50	39.9	80	40-142	
Dibromochloromethane	ug/L	ND	50	47.5	95	46-143	
Dibromomethane	ug/L	ND	50	44.6	89	53-140	
Dichlorodifluoromethane	ug/L	ND	50	49.1	98	23-169	
Ethyl methacrylate	ug/L	ND	200	177	89	54-149	
Ethylbenzene	ug/L	ND	50	49.5	99	40-147	
Hexachloro-1,3-butadiene	ug/L	ND	50	34.6	69	19-156	
Iodomethane	ug/L	ND	100	67.3	67	13-136	
Isopropylbenzene (Cumene)	ug/L	ND	50	47.0	94	37-151	
m&p-Xylene	ug/L	ND	100	97.1	97	37-146	
Methyl-tert-butyl ether	ug/L	ND	50	43.7	87	46-147	
Methylene Chloride	ug/L	ND	50	39.7	79	40-138	
n-Butylbenzene	ug/L	ND	50	38.2	76	21-155	
n-Hexane	ug/L	ND	50	37.2	74	50-137	
n-Propylbenzene	ug/L	ND	50	44.5	89	29-158	
Naphthalene	ug/L	ND	50	48.4	97	43-139	
o-Xylene	ug/L	ND	50	49.2	98	37-146	
p-Isopropyltoluene	ug/L	ND	50	41.8	84	25-156	
sec-Butylbenzene	ug/L	ND	50	42.6	85	27-159	
Styrene	ug/L	ND	50	47.6	95	34-149	
tert-Butylbenzene	ug/L	ND	50	36.1	72	25-128	
Tetrachloroethene	ug/L	ND	50	35.3	71	37-144	
Toluene	ug/L	ND	50	47.2	94	46-137	
trans-1,2-Dichloroethene	ug/L	ND	50	48.8	98	51-145	
trans-1,3-Dichloropropene	ug/L	ND	50	44.4	89	41-143	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

MATRIX SPIKE SAMPLE: 1919848		50184453003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	200	130	65	10-145	
Trichloroethene	ug/L	ND	50	41.8	84	45-139	
Trichlorofluoromethane	ug/L	ND	50	49.5	99	42-164	
Vinyl acetate	ug/L	ND	200	116	58	10-149	
Vinyl chloride	ug/L	ND	50	55.7	111	43-154	
Xylene (Total)	ug/L	ND	150	146	98	37-146	
4-Bromofluorobenzene (S)	%				106	84-113	
Dibromofluoromethane (S)	%				100	86-116	
Toluene-d8 (S)	%				99	86-111	

SAMPLE DUPLICATE: 1919849

Parameter	Units	50184453004	Dup		Max	
		Result	Result	RPD	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichlorobenzene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trichlorobenzene	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Chlorotoluene	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Chlorotoluene	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromobenzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

SAMPLE DUPLICATE: 1919849

Parameter	Units	50184453004 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethyl methacrylate	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Hexachloro-1,3-butadiene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	2.8J		20	
m&p-Xylene	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	2.5J		20	
Methylene Chloride	ug/L	ND	ND		20	
n-Butylbenzene	ug/L	10	12.1	19	20	
n-Hexane	ug/L	ND	ND		20	
n-Propylbenzene	ug/L	ND	3.8J		20	
Naphthalene	ug/L	19.0	19.2	1	20	
o-Xylene	ug/L	ND	ND		20	
p-Isopropyltoluene	ug/L	ND	ND		20	
sec-Butylbenzene	ug/L	5.1	6.4	23	20	D6
Styrene	ug/L	ND	ND		20	
tert-Butylbenzene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	107	108	1		
Dibromofluoromethane (S)	%.	97	98	1		
Toluene-d8 (S)	%.	100	99	1		

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

QC Batch: 416823

Analysis Method: EPA 5030/8260

QC Batch Method: EPA 5030/8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50184815002

METHOD BLANK: 1919832

Matrix: Water

Associated Lab Samples: 50184815002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/23/17 03:29	M5
1,1,1-Trichloroethane	ug/L	ND	5.0	11/23/17 03:29	M5
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/23/17 03:29	M5
1,1,2-Trichloroethane	ug/L	ND	5.0	11/23/17 03:29	M5
1,1-Dichloroethane	ug/L	ND	5.0	11/23/17 03:29	M5
1,1-Dichloroethene	ug/L	ND	5.0	11/23/17 03:29	M5
1,1-Dichloropropene	ug/L	ND	5.0	11/23/17 03:29	M5
1,2,3-Trichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	M5
1,2,3-Trichloropropane	ug/L	ND	5.0	11/23/17 03:29	M5
1,2,4-Trichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	M5
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/23/17 03:29	M5
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/23/17 03:29	M5
1,2-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	M5
1,2-Dichloroethane	ug/L	ND	5.0	11/23/17 03:29	M5
1,2-Dichloropropane	ug/L	ND	5.0	11/23/17 03:29	M5
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/23/17 03:29	M5
1,3-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	M5
1,3-Dichloropropane	ug/L	ND	5.0	11/23/17 03:29	M5
1,4-Dichlorobenzene	ug/L	ND	5.0	11/23/17 03:29	M5
2,2-Dichloropropane	ug/L	ND	5.0	11/23/17 03:29	M5
2-Butanone (MEK)	ug/L	ND	25.0	11/23/17 03:29	M5
2-Chlorotoluene	ug/L	ND	5.0	11/23/17 03:29	M5
2-Hexanone	ug/L	ND	25.0	11/23/17 03:29	M5
4-Chlorotoluene	ug/L	ND	5.0	11/23/17 03:29	M5
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	11/23/17 03:29	M5
Acetone	ug/L	ND	100	11/23/17 03:29	M5
Acrolein	ug/L	ND	50.0	11/23/17 03:29	M5
Acrylonitrile	ug/L	ND	100	11/23/17 03:29	M5
Benzene	ug/L	ND	5.0	11/23/17 03:29	M5
Bromobenzene	ug/L	ND	5.0	11/23/17 03:29	M5
Bromochloromethane	ug/L	ND	5.0	11/23/17 03:29	M5
Bromodichloromethane	ug/L	ND	5.0	11/23/17 03:29	M5
Bromoform	ug/L	ND	5.0	11/23/17 03:29	M5
Bromomethane	ug/L	ND	5.0	11/23/17 03:29	M5
Carbon disulfide	ug/L	ND	10.0	11/23/17 03:29	M5
Carbon tetrachloride	ug/L	ND	5.0	11/23/17 03:29	M5
Chlorobenzene	ug/L	ND	5.0	11/23/17 03:29	M5
Chloroethane	ug/L	ND	5.0	11/23/17 03:29	M5
Chloroform	ug/L	ND	5.0	11/23/17 03:29	M5
Chloromethane	ug/L	ND	5.0	11/23/17 03:29	M5
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/23/17 03:29	M5

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

METHOD BLANK: 1919832

Matrix: Water

Associated Lab Samples: 50184815002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/23/17 03:29	M5
Dibromochloromethane	ug/L	ND	5.0	11/23/17 03:29	M5
Dibromomethane	ug/L	ND	5.0	11/23/17 03:29	M5
Dichlorodifluoromethane	ug/L	ND	5.0	11/23/17 03:29	M5
Ethyl methacrylate	ug/L	ND	100	11/23/17 03:29	M5
Ethylbenzene	ug/L	ND	5.0	11/23/17 03:29	M5
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/23/17 03:29	M5
Iodomethane	ug/L	ND	10.0	11/23/17 03:29	M5
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/23/17 03:29	M5
Methyl-tert-butyl ether	ug/L	ND	4.0	11/23/17 03:29	M5
Methylene Chloride	ug/L	ND	5.0	11/23/17 03:29	M5
n-Butylbenzene	ug/L	ND	5.0	11/23/17 03:29	M5
n-Hexane	ug/L	ND	5.0	11/23/17 03:29	M5
n-Propylbenzene	ug/L	ND	5.0	11/23/17 03:29	M5
Naphthalene	ug/L	ND	1.7	11/23/17 03:29	M5
p-Isopropyltoluene	ug/L	ND	5.0	11/23/17 03:29	M5
sec-Butylbenzene	ug/L	ND	5.0	11/23/17 03:29	M5
Styrene	ug/L	ND	5.0	11/23/17 03:29	M5
tert-Butylbenzene	ug/L	ND	5.0	11/23/17 03:29	M5
Tetrachloroethene	ug/L	ND	5.0	11/23/17 03:29	M5
Toluene	ug/L	ND	5.0	11/23/17 03:29	M5
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/23/17 03:29	M5
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/23/17 03:29	M5
trans-1,4-Dichloro-2-butene	ug/L	ND	100	11/23/17 03:29	M5
Trichloroethene	ug/L	ND	5.0	11/23/17 03:29	M5
Trichlorofluoromethane	ug/L	ND	5.0	11/23/17 03:29	M5
Vinyl acetate	ug/L	ND	50.0	11/23/17 03:29	M5
Vinyl chloride	ug/L	ND	2.0	11/23/17 03:29	M5
Xylene (Total)	ug/L	ND	10.0	11/23/17 03:29	M5
4-Bromofluorobenzene (S)	%	100	84-113	11/23/17 03:29	M5
Dibromofluoromethane (S)	%	97	86-116	11/23/17 03:29	M5
Toluene-d8 (S)	%	100	86-111	11/23/17 03:29	M5

LABORATORY CONTROL SAMPLE: 1919833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	80-123	M5
1,1,1-Trichloroethane	ug/L	50	55.0	110	72-126	M5
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	74-124	M5
1,1,2-Trichloroethane	ug/L	50	52.6	105	79-121	M5
1,1-Dichloroethane	ug/L	50	53.9	108	77-122	M5
1,1-Dichloroethene	ug/L	50	56.9	114	70-131	M5
1,1-Dichloropropene	ug/L	50	54.4	109	79-124	M5
1,2,3-Trichlorobenzene	ug/L	50	46.5	93	70-129	M5

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1919833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	55.8	112	79-128	M5
1,2,4-Trichlorobenzene	ug/L	50	47.7	95	69-129	M5
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	76-125	M5
1,2-Dibromoethane (EDB)	ug/L	50	52.7	105	81-123	M5
1,2-Dichlorobenzene	ug/L	50	50.9	102	77-118	M5
1,2-Dichloroethane	ug/L	50	46.3	93	72-119	M5
1,2-Dichloropropane	ug/L	50	54.3	109	78-125	M5
1,3,5-Trimethylbenzene	ug/L	50	50.3	101	79-123	M5
1,3-Dichlorobenzene	ug/L	50	51.1	102	74-120	M5
1,3-Dichloropropane	ug/L	50	54.2	108	80-127	M5
1,4-Dichlorobenzene	ug/L	50	50.9	102	72-118	M5
2,2-Dichloropropane	ug/L	50	40.3	81	41-145	M5
2-Butanone (MEK)	ug/L	250	288	115	61-150	M5
2-Chlorotoluene	ug/L	50	52.1	104	77-119	M5
2-Hexanone	ug/L	250	273	109	67-141	M5
4-Chlorotoluene	ug/L	50	49.9	100	75-123	M5
4-Methyl-2-pentanone (MIBK)	ug/L	250	250	100	71-131	M5
Acetone	ug/L	250	283	113	39-166	M5
Acrolein	ug/L	1000	814	81	22-200	M5
Acrylonitrile	ug/L	200	221	110	62-130	M5
Benzene	ug/L	50	50.9	102	79-120	M5
Bromobenzene	ug/L	50	49.2	98	76-121	M5
Bromochloromethane	ug/L	50	57.1	114	69-136	M5
Bromodichloromethane	ug/L	50	51.3	103	76-125	M5
Bromoform	ug/L	50	56.7	113	69-119	M5
Bromomethane	ug/L	50	57.0	114	27-161	M5
Carbon disulfide	ug/L	50	56.3	113	60-130	M5
Carbon tetrachloride	ug/L	50	56.1	112	74-132	M5
Chlorobenzene	ug/L	50	49.6	99	77-116	M5
Chloroethane	ug/L	50	54.0	108	51-132	M5
Chloroform	ug/L	50	53.6	107	76-118	M5
Chloromethane	ug/L	50	59.4	119	46-126	M5
cis-1,2-Dichloroethene	ug/L	50	52.1	104	74-126	M5
cis-1,3-Dichloropropene	ug/L	50	52.4	105	78-125	M5
Dibromochloromethane	ug/L	50	52.9	106	80-123	M5
Dibromomethane	ug/L	50	51.0	102	75-124	M5
Dichlorodifluoromethane	ug/L	50	58.2	116	42-152	M5
Ethyl methacrylate	ug/L	200	231	115	75-136	M5
Ethylbenzene	ug/L	50	50.5	101	80-123	M5
Hexachloro-1,3-butadiene	ug/L	50	51.5	103	74-127	M5
Iodomethane	ug/L	100	132	132	43-156	M5
Isopropylbenzene (Cumene)	ug/L	50	50.6	101	80-122	M5
Methyl-tert-butyl ether	ug/L	50	50.3	101	63-131	M5
Methylene Chloride	ug/L	50	52.5	105	62-126	M5
n-Butylbenzene	ug/L	50	51.8	104	75-123	M5
n-Hexane	ug/L	50	55.5	111	66-129	M5
n-Propylbenzene	ug/L	50	50.0	100	79-128	M5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1919833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	58.7	117	66-130	M5
p-Isopropyltoluene	ug/L	50	51.0	102	79-124	M5
sec-Butylbenzene	ug/L	50	47.9	96	80-126	M5
Styrene	ug/L	50	51.8	104	81-125	M5
tert-Butylbenzene	ug/L	50	41.7	83	62-106	M5
Tetrachloroethene	ug/L	50	48.4	97	74-119	M5
Toluene	ug/L	50	50.0	100	77-117	M5
trans-1,2-Dichloroethene	ug/L	50	53.9	108	74-128	M5
trans-1,3-Dichloropropene	ug/L	50	53.3	107	75-132	M5
trans-1,4-Dichloro-2-butene	ug/L	200	161	80	42-134	M5
Trichloroethene	ug/L	50	57.8	116	75-119	M5
Trichlorofluoromethane	ug/L	50	60.2	120	57-152	M5
Vinyl acetate	ug/L	200	135	68	71-148	L2,M5
Vinyl chloride	ug/L	50	59.9	120	62-137	M5
Xylene (Total)	ug/L	150	147	98	79-121	M5
4-Bromofluorobenzene (S)	%			100	84-113	M5
Dibromofluoromethane (S)	%			98	86-116	M5
Toluene-d8 (S)	%			100	86-111	M5

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

QC Batch:	416147	Analysis Method:	EPA 8270 by SIM LVE
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50184815003, 50184815004			

METHOD BLANK: 1916676 Matrix: Water

Associated Lab Samples: 50184815003, 50184815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	11/21/17 16:33	N2
2-Methylnaphthalene	ug/L	ND	1.0	11/21/17 16:33	
Acenaphthene	ug/L	ND	1.0	11/21/17 16:33	
Acenaphthylene	ug/L	ND	1.0	11/21/17 16:33	
Anthracene	ug/L	ND	0.10	11/21/17 16:33	
Benzo(a)anthracene	ug/L	ND	0.10	11/21/17 16:33	
Benzo(a)pyrene	ug/L	ND	0.10	11/21/17 16:33	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/21/17 16:33	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/21/17 16:33	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/21/17 16:33	
Chrysene	ug/L	ND	0.50	11/21/17 16:33	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/21/17 16:33	
Fluoranthene	ug/L	ND	1.0	11/21/17 16:33	
Fluorene	ug/L	ND	1.0	11/21/17 16:33	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/21/17 16:33	
Phenanthrene	ug/L	ND	1.0	11/21/17 16:33	
Pyrene	ug/L	ND	1.0	11/21/17 16:33	
2-Fluorobiphenyl (S)	%	70	15-87	11/21/17 16:33	
p-Terphenyl-d14 (S)	%	96	10-116	11/21/17 16:33	

LABORATORY CONTROL SAMPLE: 1916677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	6.8	68	26-112	N2
2-Methylnaphthalene	ug/L	10	6.0	60	24-106	
Acenaphthene	ug/L	10	7.4	74	34-119	
Acenaphthylene	ug/L	10	7.4	74	37-122	
Anthracene	ug/L	10	10.5	105	44-134	
Benzo(a)anthracene	ug/L	10	12.4	124	43-141	
Benzo(a)pyrene	ug/L	10	10.6	106	38-153	
Benzo(b)fluoranthene	ug/L	10	10.8	108	38-160	
Benzo(g,h,i)perylene	ug/L	10	10	100	29-149	
Benzo(k)fluoranthene	ug/L	10	9.7	97	35-153	
Chrysene	ug/L	10	11.5	115	42-141	
Dibenz(a,h)anthracene	ug/L	10	9.9	99	24-156	
Fluoranthene	ug/L	10	12.3	123	45-144	
Fluorene	ug/L	10	8.5	85	41-134	
Indeno(1,2,3-cd)pyrene	ug/L	10	10.1	101	28-153	
Phenanthrene	ug/L	10	10.1	101	43-132	
Pyrene	ug/L	10	12.7	127	43-136	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1916677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			78	15-87	
p-Terphenyl-d14 (S)	%.			103	10-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916678 1916679

Parameter	Units	50184825007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	10	10	1.7	2.5	16	24	18-118	34	20	M1, N2, R1
2-Methylnaphthalene	ug/L	ND	10	10	1.7	2.3	15	21	11-120	30	20	R1
Acenaphthene	ug/L	ND	10	10	2.7	3.3	27	33	25-117	21	20	R1
Acenaphthylene	ug/L	ND	10	10	2.6	3.3	26	33	28-120	24	20	M1, R1
Anthracene	ug/L	ND	10	10	6.7	7.5	67	75	25-135	11	20	
Benzo(a)anthracene	ug/L	ND	10	10	8.1	8.2	81	82	11-122	2	20	
Benzo(a)pyrene	ug/L	ND	10	10	7.1	8.1	71	81	10-109	14	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	7.1	8.2	71	82	10-118	14	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	6.3	7.7	63	77	10-90	20	20	
Benzo(k)fluoranthene	ug/L	ND	10	10	6.6	7.2	66	72	10-111	10	20	
Chrysene	ug/L	ND	10	10	7.9	9.9	79	99	10-123	23	20	R1
Dibenz(a,h)anthracene	ug/L	ND	10	10	6.6	8.0	66	80	10-95	19	20	
Fluoranthene	ug/L	ND	10	10	8.1	8.3	81	83	28-135	3	20	
Fluorene	ug/L	ND	10	10	4.9	5.6	49	56	28-131	14	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	6.4	7.9	64	79	10-94	20	20	
Phenanthrene	ug/L	ND	10	10	6.3	7.2	63	72	28-130	13	20	
Pyrene	ug/L	ND	10	10	7.7	9.1	77	91	24-131	16	20	
2-Fluorobiphenyl (S)	%.						45	53	15-87			
p-Terphenyl-d14 (S)	%.						43	47	10-116			

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

QC Batch: 416382

Analysis Method: EPA 8270 by SIM LVE

QC Batch Method: EPA 3510

Analysis Description: 8270 Water PAH LV by SIM MSSV

Associated Lab Samples: 50184815001

METHOD BLANK: 1917470

Matrix: Water

Associated Lab Samples: 50184815001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	11/22/17 09:28	N2
2-Methylnaphthalene	ug/L	ND	1.0	11/22/17 09:28	
Acenaphthene	ug/L	ND	1.0	11/22/17 09:28	
Acenaphthylene	ug/L	ND	1.0	11/22/17 09:28	
Anthracene	ug/L	ND	0.10	11/22/17 09:28	
Benzo(a)anthracene	ug/L	ND	0.10	11/22/17 09:28	
Benzo(a)pyrene	ug/L	ND	0.10	11/22/17 09:28	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/22/17 09:28	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/22/17 09:28	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/22/17 09:28	
Chrysene	ug/L	ND	0.50	11/22/17 09:28	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/22/17 09:28	
Fluoranthene	ug/L	ND	1.0	11/22/17 09:28	
Fluorene	ug/L	ND	1.0	11/22/17 09:28	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/22/17 09:28	
Phenanthrene	ug/L	ND	1.0	11/22/17 09:28	
Pyrene	ug/L	ND	1.0	11/22/17 09:28	
2-Fluorobiphenyl (S)	%	72	15-87	11/22/17 09:28	
p-Terphenyl-d14 (S)	%	94	10-116	11/22/17 09:28	

LABORATORY CONTROL SAMPLE: 1917471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	7.3	73	26-112	N2
2-Methylnaphthalene	ug/L	10	6.7	67	24-106	
Acenaphthene	ug/L	10	8.2	82	34-119	
Acenaphthylene	ug/L	10	7.9	79	37-122	
Anthracene	ug/L	10	10.8	108	44-134	
Benzo(a)anthracene	ug/L	10	12.7	127	43-141	
Benzo(a)pyrene	ug/L	10	11.2	112	38-153	
Benzo(b)fluoranthene	ug/L	10	11.1	111	38-160	
Benzo(g,h,i)perylene	ug/L	10	10.1	101	29-149	
Benzo(k)fluoranthene	ug/L	10	10.2	102	35-153	
Chrysene	ug/L	10	12.1	121	42-141	
Dibenz(a,h)anthracene	ug/L	10	10.2	102	24-156	
Fluoranthene	ug/L	10	11.8	118	45-144	
Fluorene	ug/L	10	9.5	95	41-134	
Indeno(1,2,3-cd)pyrene	ug/L	10	10.3	103	28-153	
Phenanthrene	ug/L	10	11.0	110	43-132	
Pyrene	ug/L	10	12.7	127	43-136	

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QUALITY CONTROL DATA

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

LABORATORY CONTROL SAMPLE: 1917471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			73	15-87	
p-Terphenyl-d14 (S)	%.			93	10-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917472 1917473

Parameter	Units	50184815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	10	10	4.7	5.1	47	51	18-118	8	20	N2
2-Methylnaphthalene	ug/L	ND	10	10	4.2	4.5	42	45	11-120	8	20	
Acenaphthene	ug/L	ND	10	10	5.6	6.3	56	63	25-117	11	20	
Acenaphthylene	ug/L	ND	10	10	5.7	6.1	57	61	28-120	6	20	
Anthracene	ug/L	ND	10	10	9.3	9.9	93	99	25-135	7	20	
Benzo(a)anthracene	ug/L	ND	10	10	8.9	9.2	89	92	11-122	3	20	
Benzo(a)pyrene	ug/L	ND	10	10	8.5	9.3	85	93	10-109	8	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	8.8	9.8	88	98	10-118	10	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	7.7	9.2	77	92	10-90	18	20	M1
Benzo(k)fluoranthene	ug/L	ND	10	10	7.6	8.2	76	82	10-111	7	20	
Chrysene	ug/L	ND	10	10	11.0	11.6	110	116	10-123	5	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10	7.9	9.5	79	95	10-95	18	20	
Fluoranthene	ug/L	ND	10	10	10.1	10.1	101	101	28-135	0	20	
Fluorene	ug/L	ND	10	10	7.4	7.9	74	79	28-131	7	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	7.9	9.4	79	94	10-94	18	20	
Phenanthrene	ug/L	ND	10	10	9.3	9.8	93	98	28-130	5	20	
Pyrene	ug/L	ND	10	10	9.6	10.6	96	106	24-131	9	20	
2-Fluorobiphenyl (S)	%.						62	66	15-87			
p-Terphenyl-d14 (S)	%.						54	62	10-116			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 416823

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

ANALYTE QUALIFIERS

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

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

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

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center - Hotel Site

Pace Project No.: 50184815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184815001	GP1-GW	EPA 3010	416128	EPA 6010	416865
50184815003	GP3-GW	EPA 3010	416128	EPA 6010	416865
50184815004	DUP-GW	EPA 3010	416128	EPA 6010	416865
50184815001	GP1-GW	EPA 7470	416292	EPA 7470	417266
50184815003	GP3-GW	EPA 7470	416292	EPA 7470	417266
50184815004	DUP-GW	EPA 7470	416292	EPA 7470	417266
50184815001	GP1-GW	EPA 3510	416382	EPA 8270 by SIM LVE	416679
50184815003	GP3-GW	EPA 3510	416147	EPA 8270 by SIM LVE	416477
50184815004	DUP-GW	EPA 3510	416147	EPA 8270 by SIM LVE	416477
50184815001	GP1-GW	EPA 8260	416814		
50184815003	GP3-GW	EPA 8260	416814		
50184815004	DUP-GW	EPA 8260	416825		
50184815005	TB-GW	EPA 8260	416824		
50184815002	GP2-GW	EPA 5030/8260	416823		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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

[illegible]



Sample Condition Upon Receipt

Project # 50184815Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ noPacking 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 ☒ Yes ☐ No ☐ N/A Samples iced, cooling process has begunCooler Temperature 1.7/1.7
(Initial/Corrected) Temp should be above freezing to 6°CIce Visible in Sample Containers: ☐ Yes ☐ No ☒ N/AIf Over 6°C, Was PM Notified? ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: <u>11/18/17 900 HP</u>		Comments	
Are samples from West Virginia? ☐ Yes ☒ No	1.		
Document any containers out of temp.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico) ☐ Yes ☒ No	2.		
Chain of Custody Present: ☒ Yes ☐ No	3.		
Chain of Custody Filled Out: ☒ Yes ☐ No	4.		
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	5.		Date/Time 5035A T/C placed in Freezer: _____ Short Holds Taken to Lab: _____
Rush Turn Around Time Requested: ☐ Yes ☒ No	6.		
Containers Intact: ☒ Yes ☐ No	7.		
Sample Labels match COC: ☒ Yes ☐ No -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.	8.		
Were dissolved metals samples field filtered? ☐ Yes ☒ No ☐ N/A	9.		
All containers needing acid/base pres. have been checked? ☒ Yes ☐ No ☐ N/A 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.	10. (Circle) <u>HNO3</u> H2SO4 NaOH NaOH/ZnAc		
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	11.	Present	Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)	12.	Present	Absent
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A	13.		
Headspace Wisconsin Sulfide ☐ Yes ☐ No ☒ N/A	14.		
Trip Blank Present: ☒ Yes ☐ No	Custody Seals ☒ Yes ☐ No	15.	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Sample Container Count

CLIENT: SMF

COC PAGE 1 of 1

COC ID# 50184815

Project #

SBS
Kit
Bulk
DI

Matrix SIMW/NAL
(Soil/Water/Non-
Aqueous Liquid)

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGUFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	pH <2	pH >9	pH >12
1	9	6															WT	✓	
2	3																		
3	2																✓		
4	2																✓		
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		
WG9U	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WG9U	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JG9U	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

December 20, 2017

Mr. Chris Shaw
SME
5835 W 74th Street
Indianapolis, IN 46278

RE: Project: Convention Center-Hotel Site
Pace Project No.: 50185014

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report; Modified 8270 list per customer request. dss

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 003971

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-17-11

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50185014001	GP2-GW	Water	11/20/17 08:15	11/21/17 14:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50185014001	GP2-GW	EPA 6010	FRW	7	PASI-I
		EPA 7470	JGJ	1	PASI-I
		EPA 8270 by SIM LVE	CEM	19	PASI-I

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50185014001	GP2-GW					
EPA 6010	Barium	71.8	ug/L	10.0	11/27/17 15:36	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

Sample: GP2-GW		Lab ID: 50185014001	Collected: 11/20/17 08:15	Received: 11/21/17 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND	ug/L	10.0	1	11/27/17 06:15	11/27/17 15:36	7440-38-2	
Barium	71.8	ug/L	10.0	1	11/27/17 06:15	11/27/17 15:36	7440-39-3	
Cadmium	ND	ug/L	2.0	1	11/27/17 06:15	11/27/17 15:36	7440-43-9	
Chromium	ND	ug/L	10.0	1	11/27/17 06:15	11/27/17 15:36	7440-47-3	
Lead	ND	ug/L	10.0	1	11/27/17 06:15	11/27/17 15:36	7439-92-1	
Selenium	ND	ug/L	10.0	1	11/27/17 06:15	11/27/17 15:36	7782-49-2	
Silver	ND	ug/L	10.0	1	11/27/17 06:15	11/27/17 15:36	7440-22-4	CU
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND	ug/L	2.0	1	11/28/17 11:07	11/28/17 18:58	7439-97-6	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:30	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:30	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:30	207-08-9	
Chrysene	ND	ug/L	0.50	1	11/22/17 11:25	11/27/17 19:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:30	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:30	206-44-0	
Fluorene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/22/17 11:25	11/27/17 19:30	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:30	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:30	91-57-6	
Phenanthrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:30	85-01-8	
Pyrene	ND	ug/L	1.0	1	11/22/17 11:25	11/27/17 19:30	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52	%.	15-87	1	11/22/17 11:25	11/27/17 19:30	321-60-8	
p-Terphenyl-d14 (S)	50	%.	10-116	1	11/22/17 11:25	11/27/17 19:30	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

QC Batch: 416618

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Associated Lab Samples: 50185014001

METHOD BLANK: 1918913

Matrix: Water

Associated Lab Samples: 50185014001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	11/28/17 18:15	

LABORATORY CONTROL SAMPLE: 1918914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1918915 1918916

Parameter	Units	50185014001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	4.9	98	98	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

QC Batch: 416658

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Associated Lab Samples: 50185014001

METHOD BLANK: 1919021

Matrix: Water

Associated Lab Samples: 50185014001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/27/17 15:32	
Barium	ug/L	ND	10.0	11/27/17 15:32	
Cadmium	ug/L	ND	2.0	11/27/17 15:32	
Chromium	ug/L	ND	10.0	11/27/17 15:32	
Lead	ug/L	ND	10.0	11/27/17 15:32	
Selenium	ug/L	ND	10.0	11/27/17 15:32	
Silver	ug/L	ND	10.0	11/27/17 15:32	CU

LABORATORY CONTROL SAMPLE: 1919022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1000	100	80-120	
Barium	ug/L	1000	979	98	80-120	
Cadmium	ug/L	1000	940	94	80-120	
Chromium	ug/L	1000	975	98	80-120	
Lead	ug/L	1000	903	90	80-120	
Selenium	ug/L	1000	970	97	80-120	
Silver	ug/L	500	531	106	80-120	CH

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919023 1919024

Parameter	Units	50185014001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1060	1060	106	106	75-125	1	20	
Barium	ug/L	71.8	1000	1000	1080	1100	101	103	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	980	984	98	98	75-125	0	20	
Chromium	ug/L	ND	1000	1000	1010	1020	100	101	75-125	1	20	
Lead	ug/L	ND	1000	1000	907	912	90	91	75-125	1	20	
Selenium	ug/L	ND	1000	1000	1020	1030	102	103	75-125	1	20	
Silver	ug/L	ND	500	500	551	552	110	110	75-125	0	20	CH

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QUALITY CONTROL DATA

Project: Convention Center-Hotel Site
Pace Project No.: 50185014

QC Batch:	416655	Analysis Method:	EPA 8270 by SIM LVE
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH LV by SIM MSSV
Associated Lab Samples:	50185014001		

METHOD BLANK: 1919013 Matrix: Water
Associated Lab Samples: 50185014001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	11/27/17 18:10	N2
2-Methylnaphthalene	ug/L	ND	1.0	11/27/17 18:10	
Acenaphthene	ug/L	ND	1.0	11/27/17 18:10	
Acenaphthylene	ug/L	ND	1.0	11/27/17 18:10	
Anthracene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(a)anthracene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(a)pyrene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/27/17 18:10	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/27/17 18:10	
Chrysene	ug/L	ND	0.50	11/27/17 18:10	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/27/17 18:10	
Fluoranthene	ug/L	ND	1.0	11/27/17 18:10	
Fluorene	ug/L	ND	1.0	11/27/17 18:10	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/27/17 18:10	
Phenanthrene	ug/L	ND	1.0	11/27/17 18:10	
Pyrene	ug/L	ND	1.0	11/27/17 18:10	
2-Fluorobiphenyl (S)	%	66	15-87	11/27/17 18:10	
p-Terphenyl-d14 (S)	%	89	10-116	11/27/17 18:10	

LABORATORY CONTROL SAMPLE: 1919014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.5	45	26-112	N2
2-Methylnaphthalene	ug/L	10	3.9	39	24-106	
Acenaphthene	ug/L	10	5.2	52	34-119	
Acenaphthylene	ug/L	10	5.2	52	37-122	
Anthracene	ug/L	10	9.1	91	44-134	
Benzo(a)anthracene	ug/L	10	8.5	85	43-141	
Benzo(a)pyrene	ug/L	10	8.3	83	38-153	
Benzo(b)fluoranthene	ug/L	10	6.9	69	38-160	
Benzo(g,h,i)perylene	ug/L	10	7.6	76	29-149	
Benzo(k)fluoranthene	ug/L	10	9.1	91	35-153	
Chrysene	ug/L	10	10	100	42-141	
Dibenz(a,h)anthracene	ug/L	10	7.8	78	24-156	
Fluoranthene	ug/L	10	8.9	89	45-144	
Fluorene	ug/L	10	6.6	66	41-134	
Indeno(1,2,3-cd)pyrene	ug/L	10	7.9	79	28-153	
Phenanthrene	ug/L	10	9.1	91	43-132	
Pyrene	ug/L	10	10.6	106	43-136	

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QUALITY CONTROL DATA

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

LABORATORY CONTROL SAMPLE: 1919014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			62	15-87	
p-Terphenyl-d14 (S)	%.			70	10-116	

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QUALIFIERS

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: 416655

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

ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

CU The continuing calibration for this analyte is above laboratory acceptance limits. Analyte was not detected above the reporting limit in any of the associated samples.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Convention Center-Hotel Site

Pace Project No.: 50185014

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50185014001	GP2-GW	EPA 3010	416658	EPA 6010	417024
50185014001	GP2-GW	EPA 7470	416618	EPA 7470	417268
50185014001	GP2-GW	EPA 3510	416655	EPA 8270 by SIM LVE	416971

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Face Analytical

Project # 50185014

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 ☒ Yes ☐ No ☐ N/A Samples iced, cooling process has begun

Cooler Temperature 0.9 / 0.9
(Initial/Corrected) Temp should be above freezing to 6°C

Ice Visible in Sample Containers: ☐ Yes ☐ No ☒ N/A

If Over 6°C, Was PM Notified? ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: <u>1525 11/21/17 KE</u>		Comments	
Are samples from West Virginia? ☐ Yes ☒ No		1.	
Document any containers out of temp.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico) ☐ Yes ☒ No		2.	
Chain of Custody Present: ☒ Yes ☐ No		3.	
Chain of Custody Filled Out: ☒ Yes ☐ No		4.	
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No <u>11/21/17</u>		5. <u>PAH holds MB 11/27/17</u>	
Rush Turn Around Time Requested: ☒ Yes ☐ No		6. <u>5 DAY 11-30-17</u>	
Containers Intact: ☒ Yes ☐ No		7.	
Sample Labels match COC: ☒ Yes ☐ No -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.		8.	
Were dissolved metals samples field filtered? ☐ Yes ☐ No ☒ N/A		9.	
All containers needing acid/base pres. have been checked? ☒ Yes ☐ No ☐ N/A 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.		10. (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc	
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11.	Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12.	Present Absent
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A		13.	
Headspace Wisconsin Sulfide ☐ Yes ☐ No ☒ N/A		14.	
Trip Blank Present: ☐ Yes ☒ No	Custody Seals ☐ Yes ☒ No	15.	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Sample Container Count

CLIENT: SALE

COC PAGE 1 of 1

COC ID# _____

Project # 50185014

SBS
Kit
Bulk
DI

Matrix S/MW/NAL
(Soil/Water/Non-
Aqueous Liquid)

Sample Line Item	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix S/MW/NAL (Soil/Water/Non- Aqueous Liquid)	pH <2	pH >9	pH >12
1	2																WT	✓		
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	1liter 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		
WGAU	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 F

GEOTECHNICAL REPORT



PRELIMINARY GEOTECHNICAL EVALUATION REPORT

KOKOMO CONVENTION CENTER
200 BLOCK OF SOUTH MAIN STREET & SOUTH UNION STREET, KOKOMO, INDIANA

SME Project No. 073195.00.04B.006

February 20, 2018

Prepared for: The City of Kokomo, Cooperative Agreement # BF00E01545





5835 W. 74th Street
Indianapolis, IN 46278-1757

T (317) 876-0200

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February 20, 2018

Ms. Jennifer Jordan
City of Kokomo
City Hall – Department of Development
100 South Union Street
Kokomo, Indiana 46901

RE: Preliminary Geotechnical Evaluation Services for the
Phase II Environmental Site Assessment Report-Addendum
Kokomo Convention Center
200 Block of South Main Street and South Union Street
Kokomo, Indiana 46901
SME Project No.: 073195.00.04B.006

Dear Ms. Jordan:

We have completed our preliminary geotechnical evaluation for the subject project. This report presents the results of our observations and analyses, our preliminary geotechnical engineering recommendations, and a general discussion on construction considerations based on the information disclosed by the borings.

We appreciate the opportunity to be of service. If you have questions or require additional information, please contact me.

Sincerely,

SME

A blue ink signature of Wendell G. Solomon, written in a cursive style, is placed over a light blue rectangular background.

Wendell G. Solomon, PE cosign
Senior Project Consultant

REPORT PREPARED BY:

Wendell G. Solomon, PE
Senior Project Consultant

REPORT REVIEWED BY:

Timothy J. Mitchell, PE
Principal Consultant

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APPENDIX A

BORING LOCATION DIAGRAM
BORING LOG TERMINOLOGY
BORING LOGS

APPENDIX B

IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL
ENGINEERING REPORT
GENERAL COMMENTS
LABORATORY TESTING PROCEDURES

1. INTRODUCTION

This report presents the results of our preliminary geotechnical evaluation for the proposed Kokomo Convention Center development. Our services for this project were authorized by the City of Kokomo, Indiana. We performed our evaluation as part of the Phase II ESA. SME has previously performed multiple Phase I ESAs at this location.

SME was provided a first floor schematic plan of the proposed Kokomo Convention Center and Hotel developed by the Greater Kokomo Visitors Bureau, Dora Hotel Company, Studio Costandi, and Stephen M. Roberts. This schematic plan was referenced for the location of borings and overall project layout.

This preliminary geotechnical report discusses geotechnical considerations affecting the design and construction of the proposed development anticipated at the time this report was prepared. Once the conceptual design is finalized, including structure locations at the site, anticipated design loads, finish floor elevations, and other project information, SME should review this report relative to the final design information and **prepare a final geotechnical report** with specific geotechnical recommendations that can be used to design the proposed development. Depending on the final design information related to the proposed building and pavements, additional geotechnical exploration such as borings or test pits may be recommended in order to prepare the final geotechnical report. After reviewing this report, we recommend the project team meet to discuss the site soil conditions, options for support of the proposed building and pavements, and estimated costs associated with the various options, so that the desired construction alternatives can be selected and addressed by the geotechnical recommendations incorporated into the final report.

1.1 SITE CONDITIONS

The project site is located on the 200 Block of South Main Street and South Union Street., just north of Wildcat Creek, in Kokomo, Indiana. The location of the site is depicted on the Location Map inset included on the Boring Location Diagram (Figure No. 1) contained in Appendix A of this report. The ground surface at the proposed building footprint currently includes paved areas, fill, and natural soils.

Topographic survey information has not been provided to us at this time. Based on the elevation information available in Google™ Earth, the proposed building and parking areas appear to vary in elevation from about 812 to 802 feet (USGS Datum). On the south side of the site, the ground surface slopes downward toward the Wildcat Creek which appears to be at an elevation of about 794 feet. The elevation information presented herein was obtained from Google™ Earth, which cannot be relied on for accuracy. Therefore, these elevations should be considered for informational purposes only (i.e., not for design) and should be amended based on a topographic survey prepared by a registered Land Surveyor.

1.2 PROJECT DESCRIPTION

We have been informed the project will consist of constructing a two-story, wood framed, slab-on-grade convention center, with parking lots, and an automotive museum on the first floor. Given the topography of the site, with ground surface elevations sloping downward from north to south, the first floor of the convention center will be constructed as a lower level, or basement, with a walk-out to the south where grades are lower. An elevated walkway is planned on the east side of the convention center that will connect to a planned four-story hotel on the adjacent site to the east. SME's current scope of services does not include evaluating geotechnical conditions at the hotel site.

The southern area of the site is proposed to be used for parking. Based on our experience with similar types of projects, we anticipate structural loads will be relatively light. However, specific structural loading information has not been provided to us at this time. We anticipate earthwork will likely include cuts of as much as about 9 feet for the lower level excavation at the north end of the building, and new fills of no more than about one to two feet, to achieve final grades in the proposed building addition and pavement areas. Cuts below the design foundation and floor slab subgrade levels will likely be necessary to remove existing fills at some locations.

We understand no retaining walls or large fill placements are planned as part of this development.

2. EVALUATION PROCEDURES

2.1 FIELD EXPLORATION

SME completed ten soil borings at the site on November 17, 2017 and November 21, 2017. The soil borings were numbered to correspond with the SME Phase II environmental borings on the same site. Borings GP 1A, GP 3A, and SB18A through SB21A were performed in the proposed building area and each extended to a depth of 25 feet. The remaining borings were performed outside of the proposed building area and extended to a depth of five (5) feet. The approximate locations of the borings are depicted on the Boring Location Diagram.

SME determined the planned number, depths, and locations of the borings. Prior to the field exploration, SME staked the borings in the field relative to existing site features. Ground surface elevations at the boring locations were not obtained by SME during this evaluation. If topographic survey information becomes available, SME can update the soil boring logs to reflect this information.

The borings were drilled using a truck-mounted drill rig. The borings were advanced to the sampling depths, using hollow-stem augers. The borings included soil sampling based upon the Split-Barrel Sampling procedure. The driller sealed recovered split-barrel samples in glass jars.

The driller recorded groundwater level measurements in the boreholes during and after completion of each boring. The boreholes were backfilled with grout upon completion of drilling. Therefore, long-term groundwater levels are not available from the borings.

The driller delivered the soil samples recovered from the field exploration to our laboratory for further observation and testing.

2.2 LABORATORY TESTING

The laboratory testing program consisted of visual soil classification on recovered samples in accordance with ASTM D2488. Moisture content and hand penetrometer tests were performed on portions of recovered cohesive samples. A Loss-On-Ignition (LOI) test was performed on a soil sample which appeared to contain organic material. The Laboratory Testing Procedures in Appendix B provide descriptions of the laboratory tests performed. Based on the laboratory testing, we assigned a soil description and an associated Unified Soil Classification System (USCS) group symbol to each of the various soil strata encountered.

Upon completion of the laboratory testing, we prepared boring logs which include the soil descriptions, penetration resistances, pertinent field observations made during the drilling operations, and the results of the laboratory tests. Explanations of symbols and terms used on the boring logs are provided on the Boring Log Terminology sheet included in Appendix A. The soil descriptions included on the logs were developed from visual classification.

3. SUBSURFACE CONDITIONS

3.1 SOIL CONDITIONS

The soil conditions encountered at the borings located within the proposed footprint of the proposed convention center generally consisted of surficial asphalt pavement over existing clay fill at several boring locations and then natural lean clay and clay till, extending from either below the surface pavement or below the fill to the explored depths of the borings. Crushed stone fill extended from the surface to a depth of about 10 feet where a 6-inch thick concrete slab was encountered at boring GP 3A. Clay fill was encountered at building borings GP 1A, SB20A, and SB21A, and extended to depths ranging from six to nine feet.

The soil conditions encountered within proposed pavement areas at the borings located south of the proposed convention center generally consisted of asphalt pavement over existing fill material.

SME compared the results of the soil borings performed for this geotechnical evaluation to the conditions encountered in the soil borings and performed previously during the referenced environmental assessments performed at this site. In our opinion, the soil conditions encountered in the geotechnical borings are mostly consistent with the conditions encountered in the previous environmental borings.

The soil profile described above and included on the appended boring logs is a generalized description of the conditions encountered. The stratification depths on the boring logs indicate zones of transition from one soil type to another. They do not show exact depths of change from one soil type to another. Soil conditions may vary between or away from the boring locations. Please refer to the boring logs for the soil conditions at the specific boring locations.

The composition of the existing site fill should be expected to change abruptly over short distances and may vary from what is reported in the borings. The indication of debris within the fill may not accurately indicate the quantity, composition or size of the debris, and may not fully include the types of debris existing within the site fills. We recommend performing test pits to further evaluate the site fills, particularly in areas where the fill will be utilized for support of pavements or grade slabs.

Consider thickness measurements of surficial materials (e.g., gravel, asphalt concrete) and the depths of fill reported on the boring logs to be approximate. If more accurate measurements of surface materials are required, we recommend performing additional evaluations such as test pits for gravel and topsoil thickness, and/or coring for asphalt concrete thickness.

3.2 GROUNDWATER CONDITIONS

Groundwater was measured and recorded at depths from about 18 to 19 feet below the existing ground surface (BGS) while drilling at borings GP1A, GP3A, and SB19A. Groundwater was measured upon completion of drilling operations in boring GP1A at a depth of about 19.5 feet BGS. Groundwater was not encountered at the other borings.

A long time can be required for groundwater levels to reach equilibrium in small diameter boreholes, particularly in low permeability clay and silt soils. At this site, installation of groundwater level observation wells and longer term monitoring would be necessary to more accurately estimate the static groundwater level.

Groundwater levels, perched groundwater conditions, and the rate of infiltration into excavations should be expected to fluctuate throughout the year, based on variations in precipitation, evaporation, run-off, the surface elevation of the Wildcat Creek and other factors. The groundwater levels indicated by the borings represent conditions at the time the readings were taken. The actual groundwater levels at the time of construction may vary from those conditions noted on the logs.

4. ANALYSIS AND RECOMMENDATIONS

4.1 SITE PREPARATION AND EARTHWORK

4.1.1 EXISTING FILL CONSIDERATIONS

Existing clay, sandy silt and crushed stone fill extended to depths ranging between about six to ten feet BGS at most of the boring locations within the footprint of the proposed convention center building. Portions of the fill contained traces of asphalt, brick, and wood fragments. Although voids were not encountered within the fill in the borings, concrete was encountered at 10 feet in boring GP3A, which may indicate the presence of a buried concrete slab. The crushed stone fill at boring GP 3A was in a very loose condition and the shear strengths of the clay fill indicated mostly very stiff to medium consistencies.

In our opinion, the existing fill does not exhibit the uniformity and stability that are expected from engineered fill and the existing fill should not be used for structural support of the proposed building, without being improved by a ground improvement method. The following report sections provide discussions and preliminary recommendations for foundation support alternatives including removing and replacing the fill or improving the modulus of the existing fill by a ground improvement method.

Assuming grades will not be raised more than about one foot, the existing fill should perform adequately for support of flexible (asphalt) pavements. However, the existing pavements observed in the vicinity of this site currently exhibited moderate to significant distress. Adequate performance of grade-supported pavements should be achievable by further evaluating and improving the subgrades during construction, and by adequately designing a pavement section for the anticipated traffic loading and environmental (i.e., freeze-thaw) conditions. Providing for adequate drainage, which may include a granular subbase, will also improve pavement performance. However, pavements constructed over the existing fill at this site should be expected to require greater than typical maintenance, including crack-filling and patching throughout the life of the pavements.

Based on our review of the referenced environmental reports, we understand existing fills that are excavated from this site, and that cannot be suitably reused on-site, must be managed in accordance with applicable environmental regulations. Assuming a portion of the existing fill will be removed during the excavation required for the proposed lower level, we anticipate it may then be economically advantageous to remove the remaining existing fill from the proposed building area and replace it with engineered fill. Construction of a lower level will reduce backfill costs and reduce the cost differential between removing and replacing the existing fill, and alternate building support alternatives.

This report is based on our understanding that the convention center's first floor will consist of a walk-out, lower-level, with a finish floor level slightly higher than the existing grade level at the southern end of the proposed building footprint. If the lower level is not constructed, removal and replacement of the existing fill will not be as economically advantageous compared to other structure support alternatives.

4.1.2 GENERAL SITE SUBGRADE PREPARATION

Existing utilities should be re-routed around the new building. Abandoned utilities should be removed and backfilled with engineered fill to the design subgrade level. Abandoned utilities below proposed grade slab and pavement areas (and outside of foundation areas) may alternatively remain in-place if they are fully grouted, situated at least 2.5 feet below the final subgrade level to reduce the potential of developing “hard spots” in the subgrade, do not conflict with the proposed construction, and if the existing utility backfill is in a condition that is consistent with, or better than, the existing site fills. Unsuitable existing trench backfill should be undercut and replaced with engineered fill.

We recommend clearing and stripping the proposed building, pavement areas, and areas to receive engineered fill. Topsoil, vegetation, pavements, slabs, and other deleterious materials should be removed to expose the underlying inorganic subgrade soils.

Based on the proposed use of the lower-level grade slab (i.e., as a car museum) we do not recommend constructing the floor slab over the existing fill. The inconsistent composition, variable strength, and presence of debris within the existing fill results in risks of poor floor slab performance (i.e., differential movements and cracking) that are likely to be unacceptable for the intended use. Therefore, after clearing and stripping the site, SME should evaluate the resulting subgrade and identify areas of existing fill that should then be undercut and replaced with engineered fill.

The final subgrade, after removing deleterious materials, and after undercutting and backfilling existing fill, should be uniformly compacted with a vibratory sheepsfoot roller. Caution should be exercised when compacting the subgrade near existing utilities and roadways to avoid causing vibration-induced settlements or other damage.

After compaction of the exposed subgrade, the subgrade should be proofrolled in the presence of SME. Proofrolling should be performed with a fully-loaded, tandem-axle truck or other similarly loaded pneumatic-tire construction equipment. The purpose of proofrolling is to locate areas of unsuitable loose or soft subgrade. Areas of unsuitable (i.e., overly loose or soft) subgrade revealed during proofrolling should be mechanically improved (compacted) in-place, if feasible. If it is not possible to improve unsuitable subgrades in-place, it will be necessary to remove (i.e., undercut) the unsuitable soils and replace them with engineered fill. We recommend including a contingency in the construction budget for undercutting areas of existing fill that are overly soft or loose, that have become disturbed, or that contain unsuitable materials such as nested debris or excessive organics. We also recommend obtaining unit prices from prospective contractors for this work.

After the exposed subgrade is proofrolled and improved as necessary, the subgrade would then be suitable for placement of engineered fill, as needed to establish final subgrade levels. Section 4.1.4 of this report presents materials and compaction requirements for engineered fill.

4.1.3 SUBGRADE PREPARATION FOR FLOOR SLABS

The floor slab subgrade for the proposed lower-level should be prepared as discussed in Section 4.1.2 of this report, including removing the existing fill and replacing it with engineered fill. The resulting subgrade should then consist of suitable natural soils or compacted engineered fill, which is considered suitable for support of floor slabs.

If the project budget does not allow for removing the existing fill from the building area, then other slab-specific, soil improvement options, and the associated risks, can be provided in our final geotechnical report, if desired.

Our final report will recommend a layer of granular material, such as INDOT B-Borrow granular material or INDOT Number 53 crushed stone, directly below the slab to provide a leveling pad and capillary break, and a moisture vapor retarder beneath the floor slab.

4.1.4 ENGINEERED FILL REQUIREMENTS

Any fill placed within the construction area, including utility trench backfill, must be an approved material, free of frozen soil, excessive organics, debris, or other deleterious materials. The fill must be placed on suitably prepared subgrade. Engineered fill should be spread in level layers not exceeding 9 inches in loose thickness and compacted to a minimum of 98 percent of the maximum dry density as determined in accordance with the Standard Proctor test. Sand fill should be compacted with a smooth drum vibratory roller or vibratory plate compactors including either walk-behind types, or plate compactors mounted on a backhoe or excavator (hoe-pacs). Clay fill should be compacted using a sheepfoot roller at a moisture content ranging from the optimum moisture content to about 2 percent below optimum.

Portions, but not all, of the existing site fills can be considered for reuse as engineered fill. The sandy lean clay material encountered can be reused as general site engineered fill provided that the soil does not contain excessive silt, organics or deleterious materials. However, the reuse of on-site materials as engineered fill will depend on the ability of the contractor to maintain appropriate moisture conditions and achieve the required compaction, among other factors.

Wet soils must be aerated and suitably dried prior to reuse. The successful reuse of the on-site soils for engineered fill will be dependent on the time of year and the care the earthwork contractor uses in sorting and stockpiling materials, and the ability of the contractor to maintain dry backfill materials. If construction is performed during seasonally wet periods, when moisture conditioning (drying) is not be feasible due to weather conditions, then some to all of the existing site soils may not be suitable for reuse. In this case, it will be necessary to utilize lime drying or increased quantities of imported fill. This may also result in additional spoils that will require either being placed in non-structural areas (i.e., outside of the building and pavement areas) or disposal off-site.

In confined areas where compaction is accomplished primarily by hand-operated equipment, such as utility trenches and footing excavations, and in areas where drainage is required such as the lower-level wall backfill, an approved granular material, such as INDOT B-borrow granular material should be used as backfill. Thinner lifts may be required to achieve compaction of the backfill when using smaller compaction equipment.

4.2 FOUNDATIONS

4.2.1 FOUNDATION ALTERNATIVES

Based on the borings, it is our opinion the existing fills are not suitable to support the building foundations or the floor slab for the proposed automotive museum. Undercutting should be performed as needed to remove the existing fill from foundation and floor slab areas.

Feasible foundation alternatives to support the proposed structure, in our opinion, include construction of conventional shallow spread footings after either completely over-excavating the existing fill and replacing it with engineered fill or after performing a specialized ground improvement technique to improve the existing fill. Because of the excavation required to achieve the design subgrade elevation for the lower-level, we believe the additional earthwork necessary to remove and replace the remainder of the existing fill will be less costly than mobilizing a specialty contractor to perform ground improvement. However, both alternatives are feasible to provide foundation and floor slab support for the proposed building, and recommendations for both of these alternatives are presented in the following report sections.

4.2.1.1 REMOVAL AND REPLACEMENT

Complete removal of the existing fill, and replacement with imported engineered fill, is recommended to provide suitable support of the proposed building foundations and floor slab. This alternative would allow construction of conventional spread footings and a floor slab-on-grade by local contractors without requiring a specialty contractor to perform ground improvement. As discussed in Section 4.1.1, we understand existing fills that are excavated, and that cannot be suitably reused on-site, must be managed in accordance with applicable environmental regulations. Because of the incremental costs associated with this alternative, removal and replacement of the existing fill is expected to be economically viable for this project. If the convention center design changes, SME should be informed so we can readdress this alternative and provide specific recommendations.

We believe the removal and replacement alternative is the best-suited foundation solution for this project.

4.2.1.2 GROUND IMPROVEMENT

If the project design changes and the lower level is eliminated then the use of a ground improvement technique to improve the existing fills may become a more cost-effective foundation solution for the proposed development at this site. The main advantage of ground improvement is the reduction of additional excavation to remove existing fills. Ground improvement can be used to improve both foundation and floor slab subgrades. After improving the soils using a ground improvement technique, conventional grade-supported shallow spread footings and slabs-on-grade can be constructed to support the building. Conventional construction of spread footings and floor slabs can be performed by local contractors.

Several types of ground improvement were considered for the anticipated light structural loads and, in our opinion, the most practical and best-suited method of ground improvement for this site likely involves installing aggregate piers to improve the soil modulus beneath foundations and floor slabs. Ground improvement methods using grouting or controlled modulus columns are not considered as practical or cost-effective for this site as aggregate piers.

After our review of the proposed design information, specific recommendations for aggregate piers can be provided in our final geotechnical report, if it appears ground improvement is a viable alternative.

4.2.3 GENERAL SPREAD FOUNDATION CONSIDERATIONS

Specific spread foundation recommendations can be provided in our final geotechnical report. In general, spread foundations must bear on natural soils after the existing fill has been excavated, or on engineered fill placed and compacted over the natural soils. SME must observe the foundation subgrades to verify suitable subgrade is exposed at the bearing surface of foundation excavations.

Foundations should be situated a minimum of 30 inches below final site grade in any unheated areas for protection against frost action during normal winters. Foundations in heated interior areas can be constructed at shallower levels on suitable soils just below the floor slab. The foundations and proposed bearing soils should be protected from freezing during construction if work occurs in the winter months.

Trench-formed footings are feasible in areas of clay soils; however, the footing contractor should be prepared to form footings in locations containing granular soils that exhibit sloughing or caving so that vertical foundation sidewalls are maintained. In the areas with granular fill, we recommend sloping back the foundation excavations and forming foundation side-walls to maintain vertical faces for foundations and reduce the potentially adverse effects resulting from frost heave.

For bearing capacity and settlement considerations, continuous (wall) foundations should have a minimum width of 18 inches and isolated (column) foundations should have a minimum dimension of 30 inches. In some cases, the minimum footing size criteria may govern the size of the foundation and not the allowable soil bearing pressure.

4.3 SEISMIC SITE CLASS

According to the limited information obtained from the borings, the subgrade soils at this site can at least be designated as seismic site Class D in determining seismic design forces for this project in accordance with the 2014 Indiana Building Code (IBC) referencing International Building Code Table 1615.1.1.

4.4 CONSTRUCTION CONSIDERATIONS

At the proposed building location, we do not expect significant groundwater seepage into shallow foundation and utility excavations extending less than about nine feet beneath the existing ground surface during construction. However, some groundwater seepage from perched sources or surface runoff should be anticipated. We anticipate standard sump pit and pumping procedures will be adequate to control these accumulations, on a localized basis. A working surface of crushed aggregate may be required to protect the exposed subgrade where water is present.

The exposed subgrade soils can be easily disturbed due to weather and activity on-site. Therefore, the contractor should remove ponded surface water from structural areas and prevent surface water from reaching the foundation excavations and areas of prepared subgrade. Also, to reduce the potential for subgrade disturbance across the site, construction traffic should be restricted to designated construction roads and staging areas, and not be allowed to randomly traffic the site. Disturbed soils may have to be moisture conditioned and recompacted in-place, or undercut and replaced with engineered fill. Moisture conditioning may not be feasible during seasonally cold and wet times of the year, and may not be feasible due to the size limitations of the site, resulting in a potential need for additional imported fill or to utilize lime drying if the work is done between the late fall and early spring seasons.

The foundation bearing soils are susceptible to disturbance during construction. Disturbed foundation bearing soils should be removed and replaced with compacted crushed aggregate. Foundation concrete should be placed as soon as practical after foundation excavations have been completed and the design bearing pressure verified to reduce the potential for disturbance of the foundation subgrade.

The contractor must take precautions to protect existing utilities, pavements, and any neighboring structures during construction. Care must be exercised during the excavating and compacting operations so that excavations and/or excessive vibrations do not cause undesirable movement of the existing utilities, pavements, and/or structures.

The contractor must provide a safely sloped excavation or an adequately constructed and braced shoring system in accordance with federal, state and local safety regulations for individuals working in an excavation that may expose them to the danger of moving ground. If material is stored or heavy equipment is operated near an excavation, use appropriate shoring to resist the extra pressure due to the superimposed loads.

Provisions should be included in the construction contract for dealing with debris, organic soils, and existing fill that cannot be reused, below-grade obstructions, and other issues related to past development of the site. The contractor should be prepared to remove and dispose of obstructions and unsuitable soils, either on or off site and unit prices should be obtained from prospective contractors for this work.

Contractors must adhere to the applicable regulatory requirements regarding the handling, transporting and disposing of materials removed from the site.

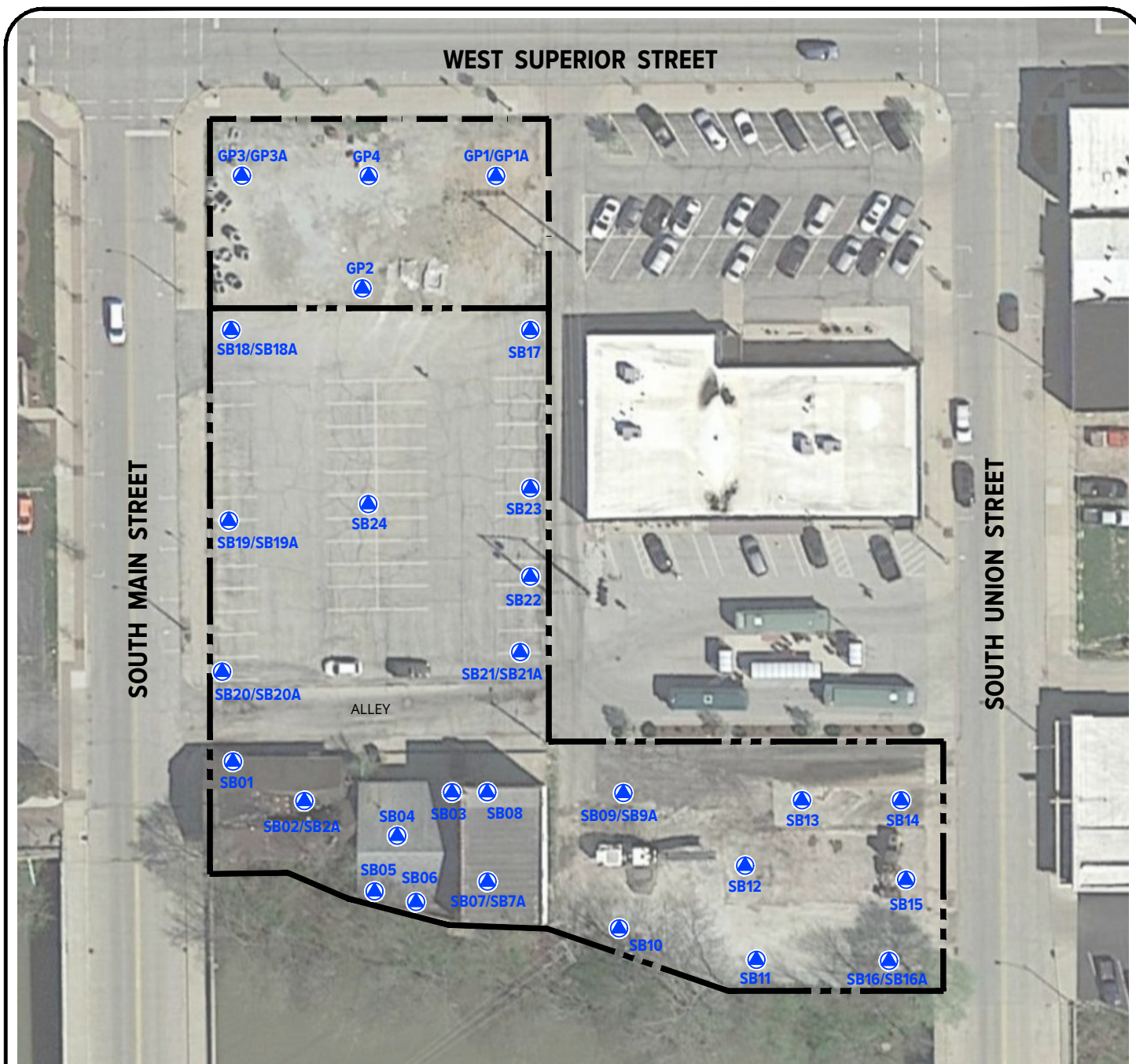
4.5 PAVEMENT CONSIDERATIONS

If the project team elects to construct the proposed pavements over the unimproved fills there will be additional risks of premature deterioration and poor performance associated with constructing pavements above the existing fill at this site. The risks include differential settlements due to the varying strength fills, seasonal heaving and weakening of the subgrade resulting from frost susceptibility of the silty and clayey fill soils, and long-term settlement that can result from consolidation of clay, and decomposition of organics. Pavements constructed over the unimproved fill at this site are likely to require greater than typical maintenance and may experience a shortened service life.

The risks and potential performance issues associated with supporting pavements on the existing fills can be reduced, but not eliminated, by thoroughly evaluating the pavement subgrades during construction and by remediating unsuitable soils encountered during the evaluation. Existing fill to remain in-place should be of sufficient strength and should not contain significant deleterious materials such as excessive organics or nested debris. Unsuitable fill encountered during construction should be improved by compaction in-place or be undercut and replaced with granular engineered fill that is placed and compacted in accordance with the requirements outlined in Section 4.1.4.

The condition of the existing subgrade, anticipated traffic loading, and environmental (i.e., freeze-thaw) conditions should be considered by the engineer designing the pavement section. The pavement serviceability could be improved by including adequate drainage provisions, a geogrid and/or sand subbase, use of dense-graded aggregates, and also by increasing the thickness of the design pavement structure.

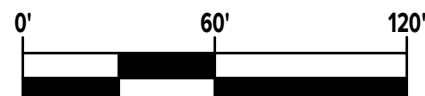
APPENDIX A
BORING LOCATION DIAGRAM
BORING LOG TERMINOLOGY
BORING LOGS



LEGEND

- APPROXIMATE PROPERTY BOUNDARY FOR GRANT FUNDED WORK
- APPROXIMATE PROPERTY BOUNDARY FOR PRIVATELY FUNDED WORK
- APPROXIMATE SOIL BORING LOCATION WITH TEMPORARY MONITORING WELL

NOTE:
DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO
WITH IMAGE DATE 4-11-2017 AND SITE RECONNAISSANCE.



GRAPHIC SCALE: 1" = 60'

No.	Revision Date	Date	1-4-18
		Drawn By	JAB
		Designed By	KK
		Scale	1" = 60'
		Project	073195.00.04B.006

BORING LOCATION DIAGRAM
CONVENTION CENTER - HOTEL SITE
225 AND 227 SOUTH UNION STREET & 226 AND
212 SOUTH MAIN STREET, AND PRIVATE PARCELS
KOKOMO, INDIANA



Figure No. 1

BORING LOG TERMINOLOGY

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		
COARSE-GRAINED SOIL (more than 50% of material is larger than No. 200 sieve size.)		
Clean Gravel (Less than 5% fines)		
GRAVEL More than 50% of coarse fraction larger than No. 4 sieve size		GW Well-graded gravel; gravel-sand mixtures, little or no fines
		GP Poorly-graded gravel; gravel-sand mixtures, little or no fines
Gravel with fines (More than 12% fines)		
		GM Silty gravel; gravel-sand-silt mixtures
		GC Clayey gravel; gravel-sand-clay mixtures
Clean Sand (Less than 5% fines)		
SAND 50% or more of coarse fraction smaller than No. 4 sieve size		SW Well-graded sand; sand-gravel mixtures, little or no fines
		SP Poorly-graded sand; sand-gravel mixtures, little or no fines
Sand with fines (More than 12% fines)		
		SM Silty sand; sand-silt-gravel mixtures
		SC Clayey sand; sand-clay-gravel mixtures
FINE-GRAINED SOIL (50% or more of material is smaller than No. 200 sieve size)		
SILT AND CLAY Liquid limit less than 50%		ML Inorganic silt; sandy silt or gravelly silt with slight plasticity
		CL Inorganic clay of low plasticity; lean clay, sandy clay, gravelly clay
		OL Organic silt and organic clay of low plasticity
SILT AND CLAY Liquid limit 50% or greater		MH Inorganic silt of high plasticity, elastic silt
		CH Inorganic clay of high plasticity, fat clay
		OH Organic silt and organic clay of high plasticity
HIGHLY ORGANIC SOIL		PT Peat and other highly organic soil

OTHER MATERIAL SYMBOLS		
		
Topsoil	Void	Sandstone
		
Asphalt	Glacial Till	Siltstone
		
Base	Coal	Limestone
		
Concrete	Shale	Fill

LABORATORY CLASSIFICATION CRITERIA	
GW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3
GP	Not meeting all gradation requirements for GW
GM	Atterberg limits below "A" line or PI less than 4
GC	Atterberg limits above "A" line with PI greater than 7
SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 6; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3
SP	Not meeting all gradation requirements for SW
SM	Atterberg limits below "A" line or PI less than 4
SC	Atterberg limits above "A" line with PI greater than 7

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

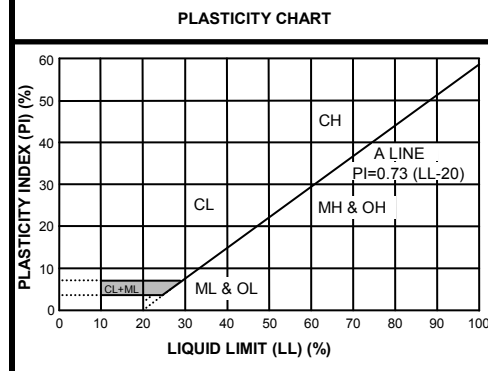
Less than 5 percent.....GW, GP, SW, SP
More than 12 percent.....GM, GC, SM, SC
5 to 12 percent.....Cases requiring dual symbols

- SP-SM or SW-SM (SAND with Silt or SAND with Silt and Gravel)
- SP-SC or SW-SC (SAND with Clay or SAND with Clay and Gravel)
- GP-GM or GW-GM (GRAVEL with Silt or GRAVEL with Silt and Sand)
- GP-GC or GW-GC (GRAVEL with Clay or GRAVEL with Clay and Sand)

If the fines are CL-ML:

- SC-SM (SILTY CLAYEY SAND or SILTY CLAYEY SAND with Gravel)
- SM-SC (CLAYEY SILTY SAND or CLAYEY SILTY SAND with Gravel)
- GC-GM (SILTY CLAYEY GRAVEL or SILTY CLAYEY GRAVEL with Sand)
- GM-GC (CLAYEY SILTY GRAVEL or CLAYEY SILTY GRAVEL with Sand)

PARTICLE SIZES	
Boulders	- Greater than 12 inches
Cobbles	- 3 inches to 12 inches
Gravel- Coarse	- 3/4 inches to 3 inches
Gravel- Fine	- No. 4 to 3/4 inches
Sand- Coarse	- No. 10 to No. 4
Sand- Medium	- No. 40 to No. 10
Sand- Fine	- No. 200 to No. 40
Silt and Clay	- Less than (0.0074 mm)



VISUAL MANUAL PROCEDURE	
When laboratory tests are not performed to confirm the classification of soils exhibiting borderline classifications, the two possible classifications would be separated with a slash, as follows:	
For soils where it is difficult to distinguish if it is a coarse or fine-grained soil:	
• SC/CL (CLAYEY SAND to Sandy LEAN CLAY) • SM/ML (SILTY SAND to SANDY SILT) • GC/CL (CLAYEY GRAVEL to Gravelly LEAN CLAY) • GM/ML (SILTY GRAVEL to Gravelly SILT)	
For soils where it is difficult to distinguish if it is sand or gravel, poorly or well-graded sand or gravel; silt or clay; or plastic or non-plastic silt or clay:	
• SP/GP or SW/GW (SAND with Gravel to GRAVEL with Sand) • SC/GC (CLAYEY SAND with Gravel to CLAYEY GRAVEL with Sand) • SM/GM (SILTY SAND with Gravel to SILTY GRAVEL with Sand) • SW/SP (SAND or SAND with Gravel) • GP/GW (GRAVEL or GRAVEL with Sand) • SC/SM (CLAYEY to SILTY SAND) • GM/GC (SILTY to CLAYEY GRAVEL) • CL/ML (SILTY CLAY) • ML/CL (CLAYEY SILT) • CH/MH (FAT CLAY to ELASTIC SILT) • CL/CH (LEAN to FAT CLAY) • MH/ML (ELASTIC SILT to SILT) • OL/OH (ORGANIC SILT or ORGANIC CLAY)	

DRILLING AND SAMPLING ABBREVIATIONS	
2ST	- Shelby Tube - 2" O.D.
3ST	- Shelby Tube - 3" O.D.
AS	- Auger Sample
GS	- Grab Sample
LS	- Liner Sample
NR	- No Recovery
PM	- Pressure Meter
RC	- Rock Core diamond bit. NX size, except where noted
SB	- Split Barrel Sample 1-3/8" I.D., 2" O.D., except where noted
VS	- Vane Shear
WS	- Wash Sample

OTHER ABBREVIATIONS	
WOH	- Weight of Hammer
WOR	- Weight of Rods
SP	- Soil Probe
PID	- Photo Ionization Device
FID	- Flame Ionization Device

DEPOSITIONAL FEATURES	
Parting	- as much as 1/16 inch thick
Seam	- 1/16 inch to 1/2 inch thick
Layer	- 1/2 inch to 12 inches thick
Stratum	- greater than 12 inches thick
Pocket	- deposit of limited lateral extent
Lens	- lenticular deposit
Hardpan/Till	- an unstratified, consolidated or cemented mixture of clay, silt, sand and/or gravel, the size/shape of the constituents vary widely
Lacustrine	- soil deposited by lake water
Mottled	- soil irregularly marked with spots of different colors that vary in number and size
Varved	- alternating partings or seams of silt and/or clay
Occasional	- one or less per foot of thickness
Frequent	- more than one per foot of thickness
Interbedded	- strata of soil or beds of rock lying between or alternating with other strata of a different nature

CLASSIFICATION TERMINOLOGY AND CORRELATIONS		
Cohesionless Soils		
Relative Density	N-Value (Blows per foot)	
Very Loose	0 to 4	
Loose	4 to 10	
Medium Dense	10 to 30	
Dense	30 to 50	
Very Dense	50 to 80	
Extremely Dense	Over 80	
Cohesive Soils		
Consistency	N-Value (Blows per foot)	Undrained Shear Strength (kips/ft ²)
Very Soft	0 - 2	0.25 or less
Soft	2 - 4	0.25 to 0.50
Medium	4 - 8	0.50 to 1.0
Stiff	8 - 15	1.0 to 2.0
Very Stiff	15 - 30	2.0 to 4.0
Hard	> 30	4.0 or greater
Standard Penetration 'N-Value' = Blows per foot of a 140-pound hammer falling 30 inches on a 2-inch O.D. split barrel sampler, except where noted.		

**BORING GP 1A**

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S Main St and S Union St, Kokomo, IN**DATE STARTED:** 11/17/17**COMPLETED:** 11/17/17**BORING METHOD:** Hollow-stem Augers**DRILLER:** SCS**RIG NO.:** TRUCK D50**LOGGED BY:** AEB**CHECKED BY:** WGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY LENGTH (INCHES)	BLOWS PER SIX INCHES	N-VALUE - ○	DRY DENSITY (pcf) -- ■	MOISTURE & ATTERBERG LIMITS (%) PL MC LL	SHEAR STRENGTH (KSF)	REMARKS
							90 100 110 120			
0		2 inches of ASPHALT								
0.2		4 inches of TOPSOIL and GRAVEL								
0.5										
			SB1	8	6 4 3	7		23	▽	
			SB2	8	4 4 3	7		21	▽	
5		FILL- LEAN CLAY- Trace Brick and Asphalt- Brown- Stiff to Very Stiff (CL)	SB3	8	4 3 4	7		24		
			SB4	18	5 5 7	12		11	▽	Sample was too disturbed to perform a shear strength test
9.0										
		LEAN CLAY- Trace Gravel- Brown- Very Stiff to Hard (CL)	SB5	18	7 6 13	19		11	▽	
15										
			SB6	18	5 7 13	20		11	▽	
18.5										
		LEAN CLAY Till- Trace Gravel- Gray- Very Stiff to Stiff (CL)	SB7	18	20 13 15	28		13	▽	
20										
25.0										

END OF BORING AT 25.0 FEET.

GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT)

▽ DURING BORING: 18.0

▼ AT END OF BORING: 19.5

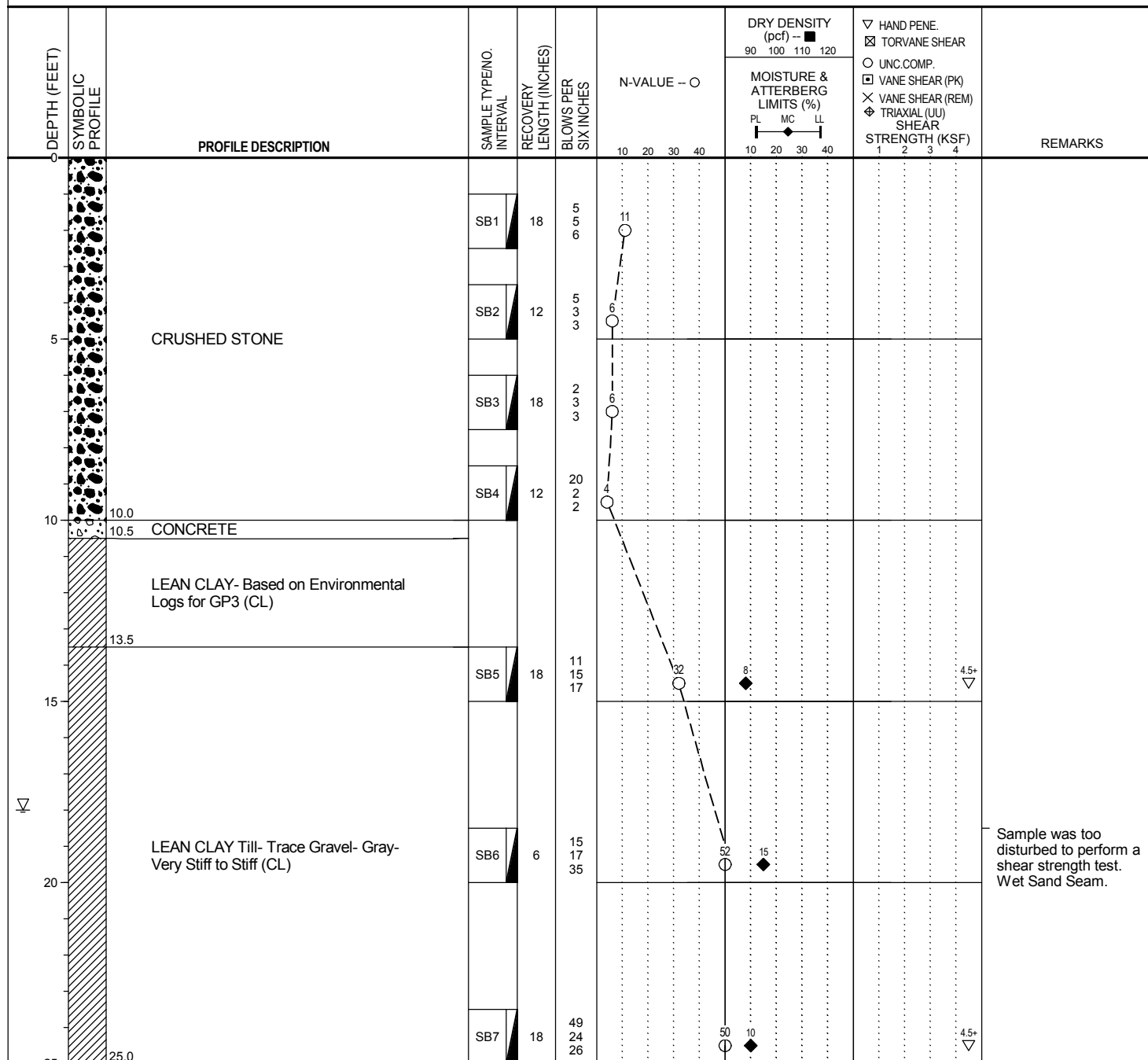
CAVE-IN OF BOREHOLE AT: 20.0

BACKFILL METHOD: Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING GP 3A**

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S Main St and S Union St, Kokomo, IN**DATE STARTED:** 11/17/17**COMPLETED:** 11/17/17**BORING METHOD:** Hollow-stem Augers**DRILLER:** SCS**RIG NO.:** TRUCK D50**LOGGED BY:** AEB**CHECKED BY:** WGS

END OF BORING AT 25.0 FEET.

GROUNDWATER & BACKFILL INFORMATION

▽ DURING BORING: 18.0

CAVE-IN OF BOREHOLE AT: 13.0

BACKFILL METHOD: Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB 2A**

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S Main St and S Union St, Kokomo, IN**DATE STARTED:** 11/21/17**COMPLETED:** 11/21/17**BORING METHOD:** Hollow-stem Augers**DRILLER:** SCS**RIG NO.:** TRUCK D50**LOGGED BY:** AEB**CHECKED BY:** WGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY LENGTH (INCHES)	BLOWS PER SIX INCHES	N-VALUE -- O	DRY DENSITY (pcf) -- ■				MOISTURE & ATTERBERG LIMITS (%)				REMARKS
							90	100	110	120	PL	MC	LL		
0															
		SAND with Clay and Gravel- Brown- Moist- Loose (SW-SC)	SB1	6	3 3 3	6									
		3.5	Silty SAND- Trace Gravel- Brown- Moist- Loose (SM)	SB2	6	3 3 4	7								
5	5.0	END OF BORING AT 5.0 FEET.													
10															
15															
20															
25															

GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB 7A**

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S Main St and S Union St, Kokomo, IN**DATE STARTED:** 11/21/17**COMPLETED:** 11/21/17**BORING METHOD:** Hollow-stem Augers**DRILLER:** SCS**RIG NO.:** TRUCK D50**LOGGED BY:** AEB**CHECKED BY:** WGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY LENGTH (INCHES)	BLOWS PER SIX INCHES	N-VALUE – ○	DRY DENSITY (pcf) – ■				MOISTURE & ATTERBERG LIMITS (%)				REMARKS
							90	100	110	120	PL	MC	LL	10	
0		4 inches of CONCRETE													
0.3															
		FILL- SAND- Trace Brick Fragments- Brown- Moist- Loose (SW)	SB1	6	3 5 5	10 ○ -									
3.5															
		GRAVEL with Sand- Brown- Moist- Loose (GW)	SB2	6	5 5 5	10 ○ -									
5.0		END OF BORING AT 5.0 FEET.													
10															
15															
20															
25															

GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.



BORING SB16A

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center

PROJECT NUMBER: 073195.00.04B.006

CLIENT: City of Kokomo

PROJECT LOCATION: 200 Block of S Main St and S Union St, Kokomo, IN

DATE STARTED: 11/21/17

COMPLETED: 11/21/17

BORING METHOD: Hollow-stem Augers

DRILLER: SCS

RIG NO.: TRUCK D50

LOGGED BY: AEB

CHECKED BY: WGS

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY LENGTH (INCHES)	BLOWS PER SIX INCHES	N-VALUE - ○	DRY DENSITY (pcf) -- ■ 90 100 110 120				MOISTURE & ATTERBERG LIMITS (%) PL MC LL				REMARKS
0		6 inches of CRUSHED STONE													
0.5															
		FILL- SAND with GRAVEL- Trace Concrete Fragments- Brown- Medium Dense (SW)	SB1	6	4 6 8	14 ○ /									
3.5															
		Possible FILL- SAND- Trace Gravel- Brown- Moist- Loose (SW)	SB2	6	4 5 5	10 ○ /									
5.0															
5		END OF BORING AT 5.0 FEET.													
10															
15															
20															
25															

GROUNDWATER & BACKFILL INFORMATION

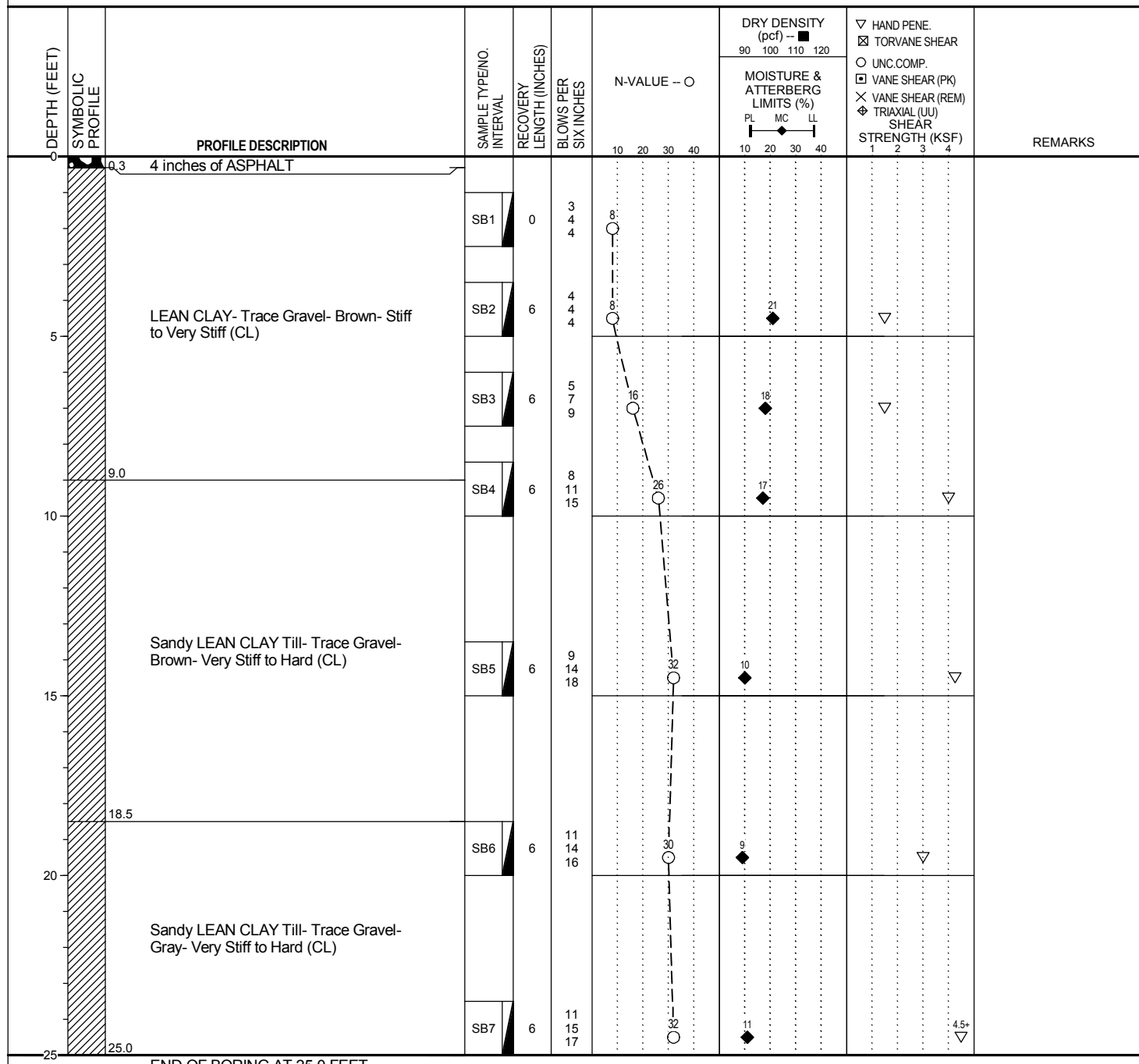
GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB18A**

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S Main St and S Union St, Kokomo, IN**DATE STARTED:** 11/21/17**COMPLETED:** 11/21/17**BORING METHOD:** Hollow-stem Augers**DRILLER:** SCS**RIG NO.:** TRUCK D50**LOGGED BY:** AEB**CHECKED BY:** WGS

END OF BORING AT 25.0 FEET.

GROUNDWATER & BACKFILL INFORMATION

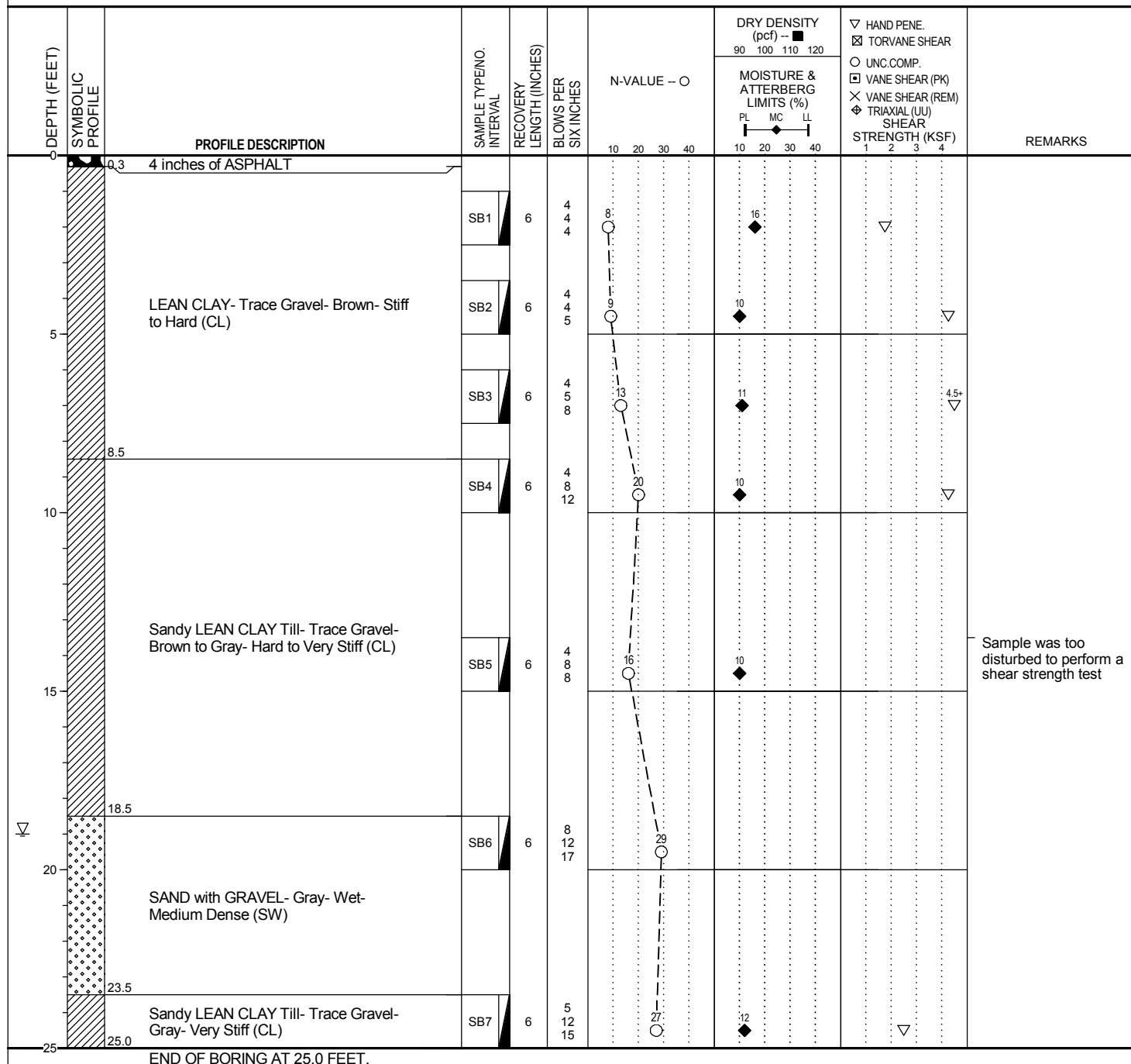
GROUNDWATER WAS NOT ENCOUNTERED

CAVE-IN OF BOREHOLE AT: 12.0**BACKFILL METHOD:** Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB19A**

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S Main St and S Union St, Kokomo, IN**DATE STARTED:** 11/21/17**COMPLETED:** 11/21/17**BORING METHOD:** Hollow-stem Augers**DRILLER:** SCS**RIG NO.:** TRUCK D50**LOGGED BY:** AEB**CHECKED BY:** WGS**GROUNDWATER & BACKFILL INFORMATION**

▽ DURING BORING: DEPTH (FT) 19.0

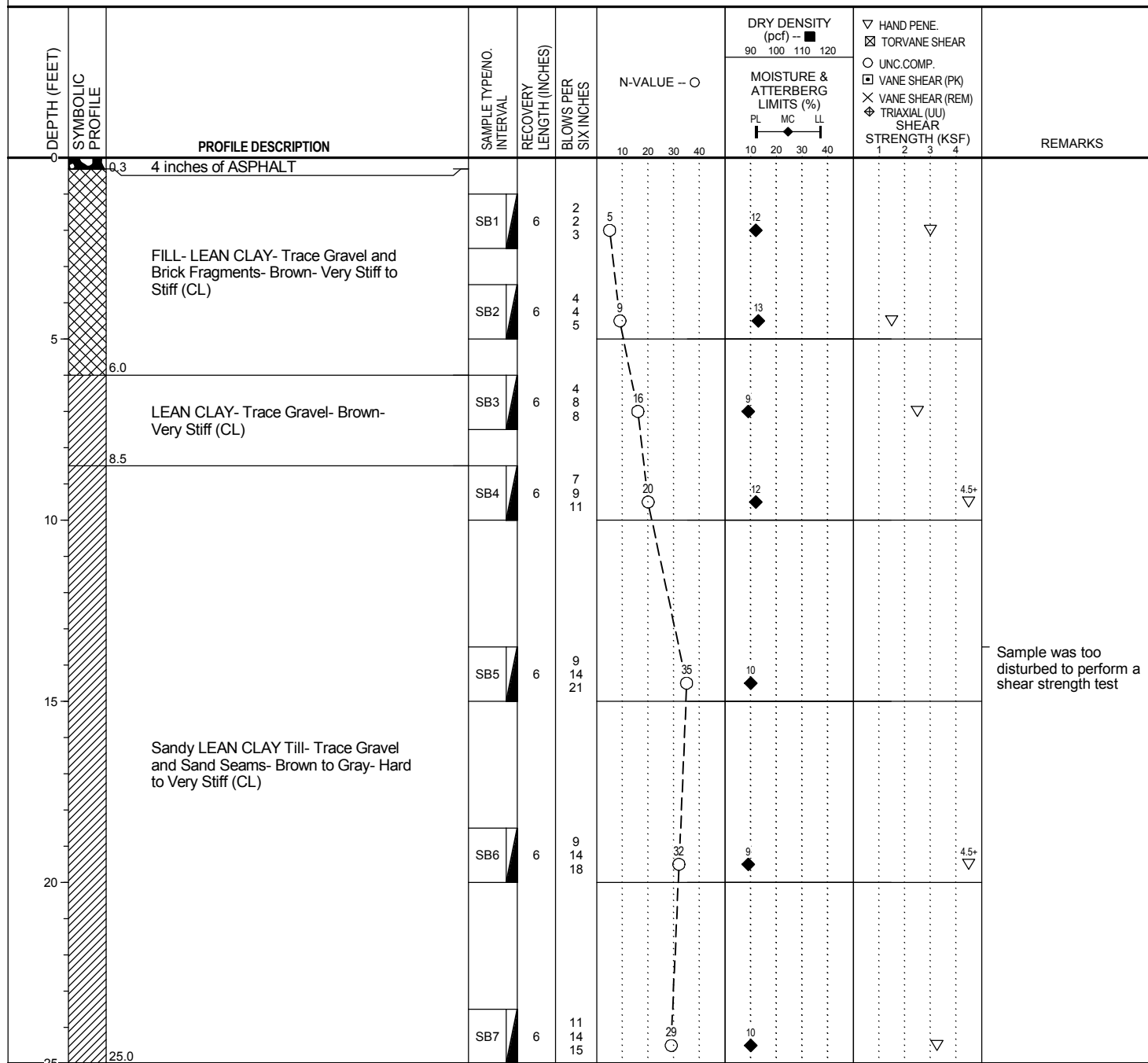
CAVE-IN OF BOREHOLE AT: 14.0

BACKFILL METHOD: Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB20A**

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S Main St and S Union St, Kokomo, IN**DATE STARTED:** 11/21/17**COMPLETED:** 11/21/17**BORING METHOD:** Hollow-stem Augers**DRILLER:** SCS**RIG NO.:** TRUCK D50**LOGGED BY:** AEB**CHECKED BY:** WGS

END OF BORING AT 25.0 FEET.

GROUNDWATER & BACKFILL INFORMATION

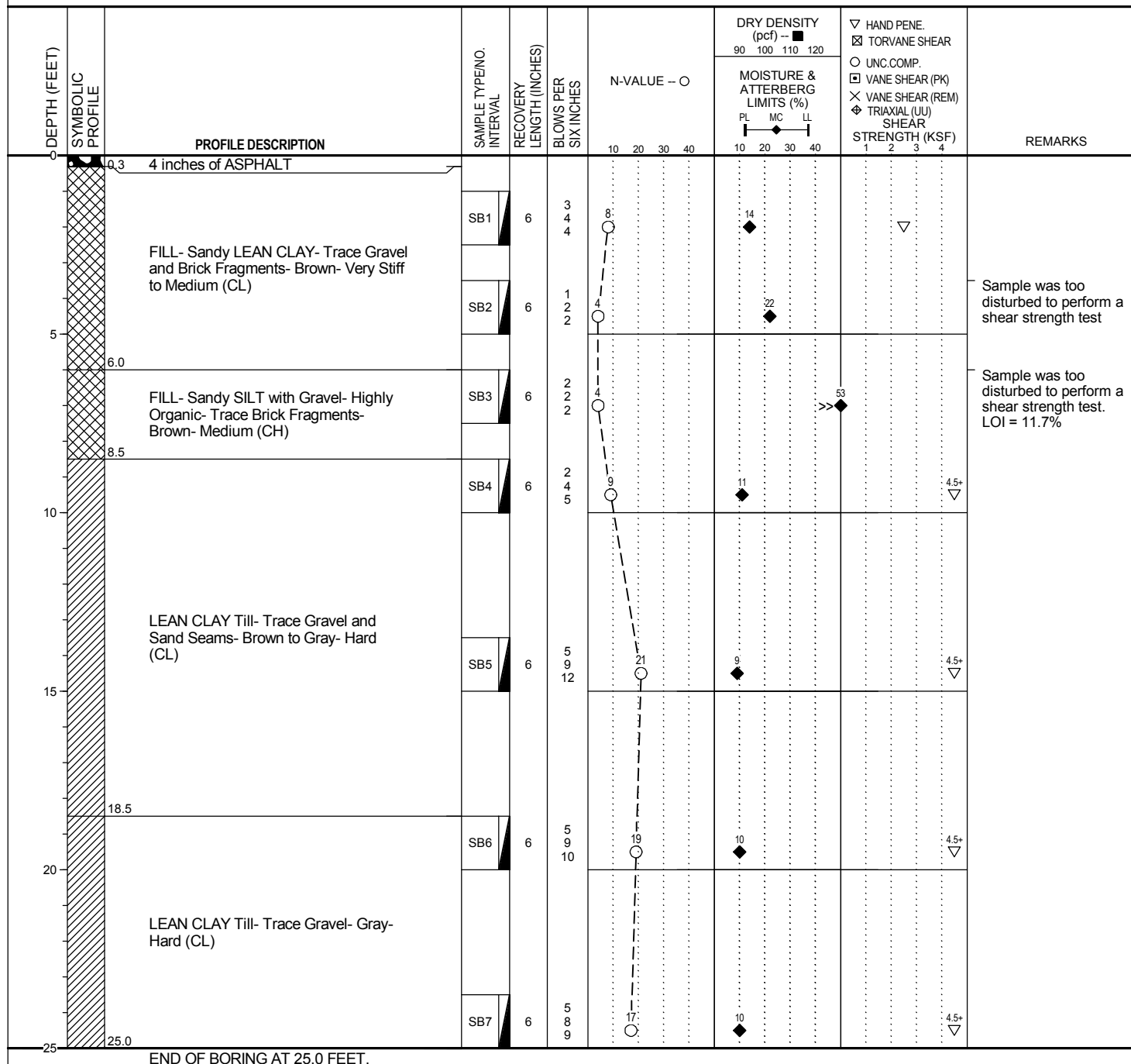
GROUNDWATER WAS NOT ENCOUNTERED

CAVE-IN OF BOREHOLE AT: 17.0**BACKFILL METHOD:** Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

**BORING SB21A**

PAGE 1 OF 1

PROJECT NAME: Kokomo Convention Center**PROJECT NUMBER:** 073195.00.04B.006**CLIENT:** City of Kokomo**PROJECT LOCATION:** 200 Block of S Main St and S Union St, Kokomo, IN**DATE STARTED:** 11/21/17**COMPLETED:** 11/21/17**BORING METHOD:** Hollow-stem Augers**DRILLER:** SCS**RIG NO.:** TRUCK D50**LOGGED BY:** AEB**CHECKED BY:** WGS**GROUNDWATER & BACKFILL INFORMATION**

GROUNDWATER WAS NOT ENCOUNTERED

CAVE-IN OF BOREHOLE AT: 12.0**BACKFILL METHOD:** Grout

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

APPENDIX B

**IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL
ENGINEERING REPORT
GENERAL COMMENTS
LABORATORY TESTING PROCEDURES**

Important Information about This Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way, clients can benefit from a lowered exposure to the subsurface problems that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed below, contact your GBA-member geotechnical engineer. Active involvement in the Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.

Geotechnical-Engineering Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical-engineering study conducted for a given civil engineer will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client. *Those who rely on a geotechnical-engineering report prepared for a different client can be seriously misled.* No one except authorized client representatives should rely on this geotechnical-engineering report without first conferring with the geotechnical engineer who prepared it. *And no one – not even you – should apply this report for any purpose or project except the one originally contemplated.*

Read this Report in Full

Costly problems have occurred because those relying on a geotechnical-engineering report did not read it *in its entirety*. Do not rely on an executive summary. Do not read selected elements only. *Read this report in full.*

You Need to Inform Your Geotechnical Engineer about Change

Your geotechnical engineer considered unique, project-specific factors when designing the study behind this report and developing the confirmation-dependent recommendations the report conveys. A few typical factors include:

- the client's goals, objectives, budget, schedule, and risk-management preferences;
- the general nature of the structure involved, its size, configuration, and performance criteria;
- the structure's location and orientation on the site; and
- other planned or existing site improvements, such as retaining walls, access roads, parking lots, and underground utilities.

Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light-industrial plant to a refrigerated warehouse;
- the elevation, configuration, location, orientation, or weight of the proposed structure;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.*

This Report May Not Be Reliable

Do not rely on this report if your geotechnical engineer prepared it:

- for a different client;
- for a different project;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, that it could be unwise to rely on a geotechnical-engineering report whose reliability may have been affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If your geotechnical engineer has not indicated an "apply-by" date on the report, ask what it should be, and, in general, if you are the least bit uncertain about the continued reliability of this report, contact your geotechnical engineer before applying it.* A minor amount of additional testing or analysis – if any is required at all – could prevent major problems.

Most of the "Findings" Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site's subsurface through various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing were performed.* The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgment to form opinions about subsurface conditions throughout the site. Actual sitewide-subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team from project start to project finish, so the individual can provide informed guidance quickly, whenever needed.

This Report's Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, *they are not final*, because the geotechnical engineer who developed them relied heavily on judgment and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* revealed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

This Report Could Be Misinterpreted

Other design professionals' misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a full-time member of the design team, to:

- confer with other design-team members,
- help develop specifications,
- review pertinent elements of other design professionals' plans and specifications, and
- be on hand quickly whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction observation.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note conspicuously that you've included the material for informational purposes only*. To avoid misunderstanding, you may also want to note that "informational purposes" means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report, but they may rely on the factual data relative to the specific times, locations, and depths/elevations referenced. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may

perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely*. Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a "phase-one" or "phase-two" environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures*. If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk-management guidance. As a general rule, *do not rely on an environmental report prepared for a different client, site, or project, or that is more than six months old*.

Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, none of the engineer's services were designed, conducted, or intended to prevent uncontrolled migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, *proper implementation of the geotechnical engineer's recommendations will not of itself be sufficient to prevent moisture infiltration*. Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. *Geotechnical engineers are not building-envelope or mold specialists*.



Telephone: 301/565-2733

e-mail: info@geoprofessional.org www.geoprofessional.org

GENERAL COMMENTS

BASIS OF GEOTECHNICAL REPORT

This report has been prepared in accordance with generally accepted geotechnical engineering practices to assist in the design and/or evaluation of this project. If the project plans, design criteria, and other project information referenced in this report and utilized by SME to prepare our recommendations are changed, the conclusions and recommendations contained in this report are not considered valid unless the changes are reviewed, and the conclusions and recommendations of this report are modified or approved in writing by our office.

The discussions and recommendations submitted in this report are based on the available project information, described in this report, and the geotechnical data obtained from the field exploration at the locations indicated in the report. Variations in the soil and groundwater conditions commonly occur between or away from sampling locations. The nature and extent of the variations may not become evident until the time of construction. If significant variations are observed during construction, SME should be contacted to reevaluate the recommendations of this report. SME should be retained to continue our services through construction to observe and evaluate the actual subsurface conditions relative to the recommendations made in this report.

In the process of obtaining and testing samples and preparing this report, procedures are followed that represent reasonable and accepted practice in the field of soil and foundation engineering. Specifically, field logs are prepared during the field exploration that describe field occurrences, sampling locations, and other information. Samples obtained in the field are frequently subjected to additional testing and reclassification in the laboratory and differences may exist between the field logs and the report logs. The engineer preparing the report reviews the field logs, laboratory classifications, and test data and then prepares the report logs. Our recommendations are based on the contents of the report logs and the information contained therein.

REVIEW OF DESIGN DETAILS, PLANS, AND SPECIFICATIONS

SME should be retained to review the design details, project plans, and specifications to verify those documents are consistent with the recommendations contained in this report.

REVIEW OF REPORT INFORMATION WITH PROJECT TEAM

Implementation of our recommendations may affect the design, construction, and performance of the proposed improvements, along with the potential inherent risks involved with the proposed construction. The client and key members of the design team, including SME, should discuss the issues covered in this report so that the issues are understood and applied in a manner consistent with the owner's budget, tolerance of risk, and expectations for performance and maintenance.

FIELD VERIFICATION OF GEOTECHNICAL CONDITIONS

SME should be retained to verify the recommendations of this report are properly implemented during construction. This may avoid misinterpretation of our recommendations by other parties and will allow us to review and modify our recommendations if variations in the site subsurface conditions are encountered.

PROJECT INFORMATION FOR CONTRACTOR

This report and any future addenda or other reports regarding this site should be made available to prospective contractors prior to submitting their proposals for their information only and to supply them with facts relative to the subsurface evaluation and laboratory test results. If the selected contractor encounters subsurface conditions during construction, which differ from those presented in this report, the contractor should promptly describe the nature and extent of the differing conditions in writing and SME should be notified so that we can verify those conditions. The construction contract should include provisions for dealing with differing conditions and contingency funds should be reserved for potential problems during earthwork and foundation construction. We would be pleased to assist you in developing the contract provisions based on our experience.

The contractor should be prepared to handle environmental conditions encountered at this site, which may affect the excavation, removal, or disposal of soil; dewatering of excavations; and health and safety of workers. Any Environmental Assessment reports prepared for this site should be made available for review by bidders and the successful contractor.

THIRD PARTY RELIANCE/REUSE OF THIS REPORT

This report has been prepared solely for the use of our Client for the project specifically described in this report. This report cannot be relied upon by other parties not involved in the project, unless specifically allowed by SME in writing. SME also is not responsible for the interpretation by other parties of the geotechnical data and the recommendations provided herein.

LABORATORY TESTING PROCEDURES

VISUAL ENGINEERING CLASSIFICATION

Visual classification was performed on recovered samples. The appended General Notes and Unified Soil Classification System (USCS) sheets include a brief summary of the general method used visually classify the soil and assign an appropriate USCS group symbol. The estimated group symbol, according to the USCS, is shown in parentheses following the textural description of the various strata on the boring logs appended to this report. The soil descriptions developed from visual classifications are sometimes modified to reflect the results of laboratory testing.

MOISTURE CONTENT

Moisture content tests were performed by weighing samples from the field at their in-situ moisture condition. These samples were then dried at a constant temperature (approximately 110° C) overnight in an oven. After drying, the samples were weighed to determine the dry weight of the sample and the weight of the water that was expelled during drying. The moisture content of the specimen is expressed as a percent and is the weight of the water compared to the dry weight of the specimen.

HAND PENETROMETER TESTS

In the hand penetrometer test, the unconfined compressive strength of a cohesive soil sample is estimated by measuring the resistance of the sample to the penetration of a small calibrated, spring-loaded cylinder. The maximum capacity of the penetrometer is 4.5 tons per square-foot (tsf). Theoretically, the undrained shear strength of the cohesive sample is one-half the unconfined compressive strength. The undrained shear strength (based on the hand penetrometer test) presented on the boring logs is reported in units of kips per square-foot (ksf).

TORVANE SHEAR TESTS

In the Torvane test, the shear strength of a low strength, cohesive soil sample is estimated by measuring the resistance of the sample to a torque applied through vanes inserted into the sample. The undrained shear strength of the samples is measured from the maximum torque required to shear the sample and is reported in units of kips per square-foot (ksf).

LOSS-ON-IGNITION (ORGANIC CONTENT) TESTS

Loss-on-ignition (LOI) tests are conducted by first weighing the sample and then heating the sample to dry the moisture from the sample (in the same manner as determining the moisture content of the soil). The sample is then re-weighed to determine the dry weight and then heated for 4 hours in a muffle furnace at a high temperature (approximately 440° C). After cooling, the sample is re-weighed to calculate the amount of ash remaining, which in turn is used to determine the amount of organic matter burned from the original dry sample. The organic matter content of the specimen is expressed as a percent compared to the dry weight of the sample.

ATTERBERG LIMITS TESTS

Atterberg limits tests consist of two components. The plastic limit of a cohesive sample is determined by rolling the sample into a thread and the plastic limit is the moisture content where a 1/8-inch thread begins to crumble. The liquid limit is determined by placing a 1/2-inch thick soil pat into the liquid limits cup and using a grooving tool to divide the soil pat in half. The cup is then tapped on the base of the liquid limits device using a crank handle. The number of drops of the cup to close the gap formed by the grooving tool 1/2 inch is recorded along with the corresponding moisture content of the sample. This procedure is repeated several times at different moisture contents and a graph of moisture content and the corresponding number of blows is plotted. The liquid limit is defined as the moisture content at a nominal 25 drops of the cup. From this test, the plasticity index can be determined by subtracting the plastic limit from the liquid limit.



*Passionate People Building
and Revitalizing our World*

