Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Submitted To:

Georgia Pacific Corporation
133 Peachtree Street NE, 9th Floor
Atlanta, GA 30303

Submitted By:

Amec Foster Wheeler Environment & Infrastructure, Inc.
800 Marquette Avenue, Suite 1200
Minneapolis, Minnesota 55402

January 2018

Amec Foster Wheeler Project No. 7311150004

January 10, 2018

Mr. Paul Montney
Georgia Pacific Corporation
133 Peachtree Street NE, 9th Floor
Atlanta, GA 30303

Re: Supplemental Site Investigation Report Ashview Terrace Apartments Site, Ashwaubenon, Brown County, Wisconsin
WDNR Site # 02-05-564043
Amec Foster Wheeler Project No. 7311150004

Dear Mr. Montney;

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) is pleased to submit this Supplemental Site Investigation (SSI) Report for activities conducted at the Ashview Terrace Apartments Site in Ashwaubenon, Wisconsin. The Ashview Terrace Apartments Site is being investigated under the Wisconsin Department of Natural Resources (WDNR) Site # 02-05-564043.

We appreciate the opportunity to assist you on this project. If you have any questions or concerns, please do not hesitate to contact us as identified below.

Sincerely,

Joseph M. Renier, PG
Project Manager
320-963-5742
Joe.renier@amecfw.com

TABLE OF CONTENTS

Page

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

ACRONYMS AND ABBREVIATIONS

2015 Phase II	OMNNI, February 2015
2016 SI	Amec Foster Wheeler, June 2017
Amec Foster Wheeler	Amec Foster Wheeler Environment and Infrastructure, Inc.
Aroclor	PCB trade name (Monsanto Company)
ATA	Ashview Terrace Apartments
ATV	all-terrain vehicle
bgs	below ground surface
COC	chain of custody
COD	chemical oxygen demand
DOT	Department of Transportation
DQR	data quality review
DRO	diesel range organics
EPC	Exposure Point Concentration
ES	WDNR NR140 Enforcement Standard
ESA	Environmental Site Assessment
ft	feet or foot
GP	Georgia Pacific, LLC
GPS	global positioning system
GRO	gasoline range organics
HSP	health and safety plan
IDW	investigation derived waste
MCL	maximum contaminant level
MDL	method detection limit
mg/kg	milligrams per kilogram
NAVD88	North American Vertical Datum 1988
OMNNI	OMNNI Associates
Pace	Pace Analytical Services Green Bay, WI
PAH	polynuclear aromatic hydrocarbon
PAL	WDNR NR140 Permissible Action Limit
PCBs	polychlorinated biphenyls
PID	photo-ionization potential
PPE	personal protective equipment
ppm	parts per million
PVC	poly-vinyl chloride

QA/QC	quality assurance/quality control
RCLs	Residual Contaminant Levels
RCRA	Resource Conservation and Recovery Act
RL	reporting limit
Site	Ashview Terrace Apartments Site
SI	Site Investigation
SIM	selective ion monitoring
SSI	Supplemental Site Investigation
SOW	scope of work
SVOC	semi-volatile organic compound
TSS	total suspended solids
USCS	Unified Soil Classification System
US EPA	US Environmental Protection Agency
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
WDNR	Wisconsin Department of Natural Resources
Work Plan	Amec Foster Wheeler, April 2016
VOC	volatile organic compound

1.0 INTRODUCTION

Amec Foster Wheeler, Environment & Infrastructure, Inc. (Amec Foster Wheeler) performed a Supplemental Site Investigation (SSI) at the Ashview Terrace Apartments (ATA) site (the Site, or ATA Site), located at 988-1020 Willard Drive, in the city of Ashwaubenon, Brown County, Wisconsin for Georgia Pacific, LLC (GP). A site location map is provided as Figure 1. The Site encompasses approximately 3.4 acres, located north of Willard Drive and the Ashwaubenon High School (Figure 2). The Site is being investigated under the Wisconsin Department of Natural Resources (WDNR) Site # 02-05-564043.

This SSI included a shallow soil and groundwater investigation to further delineate polychlorinated biphenyls (PCBs) and Resource Conservation and Recovery Act (RCRA) Metals in shallow soils and groundwater beneath the Site and supplements investigation results obtained from the Site Investigation (SI) conducted by Amec Foster Wheeler in 2016 (2016 SI) which is documented in the Site Investigation Report, Ashview Terrace Apartments Site, Brown County, Wisconsin (June 2017).

The SSI included installing and sampling four soil borings and one temporary monitoring well. Three of the borings were completed along the northern border of the Site, one boring was installed on the west side of the garage in the west-central portion of the Site and the temporary well was installed and sampled on the southeast corner of the Site.

The SSI showed that fill deposited in the former borrow pit that previously occupied the Site area thins to 0 ft to 5 ft below ground surface (bgs) along the northern border and that PCBs at levels of concern are present at one boring location at the north-central Site border in the top two feet (ft) of soil. RCRA Metals were also tested for but were not detected above soil criteria other than the Soil to Groundwater Residual Contaminant Levels (RCLs). This also occurred at the north-central boring location, however, these concentrations are low and are not considered a concern. Analytical results from the soil boring completed at the west end of the garage showed no detections of PCBs, RCRA Metals, volatile organic compounds (VOCs) or polynuclear aromatic hydrocarbons (PAHs) at levels of concern below the fill at this location, and groundwater analytical results from the temporary well at the southeast corner of the Site was not impacted by PCBs, RCRA Metals, VOCs or PAHs at levels of concern.

Following completion of the SSI, representatives from GP, Amec Foster Wheeler, and the WDNR met to discuss the SSI investigation results. During this meeting, which occurred on December 13, 2017, the WDNR requested additional hand auger soil sampling be performed between the northern Site property line and the one location that had PCB impacts at levels of concern in the top two ft of soil near the north-central Site border. The purpose of this sampling was to determine if the PCB impacts of concern terminate south of the Site property line. These samples were collected during the following week on December 20, 2017. Analytical results of the hand auger

sampling effort are presented in a separate addendum to this SSI Report (Amec Foster Wheeler, January 2018).

1.1 PURPOSE

The purpose of this SSI is to further investigate the nature and extent of PCBs and RCRA Metals in soil and groundwater that have been detected at the ATA Site (during two previous investigations), potentially associated with paper mill sludge and/or other sources deposited as fill material at the Site. In addition, the nature and extent of gasoline range and diesel range organics (GRO and DRO) which were detected in soil at one location in the center of the Site were further defined.

Previous investigation at the Site has included a Phase I and limited Phase II Subsurface Investigation conducted in 2015 by OMNNI Associates (OMNNI) (2015 Phase II), and an SI conducted by Amec Foster Wheeler during 2016 (Amec Foster Wheeler, July, 2017) (2016 SI),

Results from the 2015 Phase II identified that shallow soils at the ATA Site were impacted by PCBs exceeding both the WDNR Non-Industrial and Industrial Direct Contact RCLs for soil and the WDNR Groundwater Pathway RCL for soil. Because the 2015 Phase II was limited and conducted primarily to determine if PCBs were present at levels of concern, the WDNR required the completion of an expanded investigation (the 2106 SI) to confirm the nature and extent of soil and/or groundwater impacts at the Site.

Results from the 2016 SI indicated PCBs and two metals (lead and mercury) are present in Site soil above WDNR soil criteria at some locations. A risk analysis performed using calculated Exposure Point Concentrations (EPCs) showed that PCB concentrations and distribution within the shallow soil beneath the site are not a concern, however, levels of lead and mercury are present at levels of concern at some locations. Groundwater sampling indicated that groundwater at the Site is not impacted by PCBs and/or RCRA Metals at levels of concern.

Following review of the 2016 SI, the WDNR requested that additional borings and a temporary monitoring well be installed and sampled in an SSI. This included conducting borings along the northern border of the Site to determine if fill with potential impacts of PCBs and metals pinches out on the north end of the Site, installation of a boring on the west side of the garage located in the west-central portion of the site to document soil quality immediately below the fill at that location, and completion and sampling of a temporary well at the southeast corner of the Site to determine if groundwater is impacted by VOCs and/or PAHs and to reconfirm analytical results for PCBs and RCRA Metals from the 2016 SI.

The scope of work (SOW) for this SSI was conducted in accordance with the "Work Plan to Conduct a Supplemental Site Investigation at the Ashview Terrace Apartments Site at 988 – 1020 Willard Drive, Ashwaubenon, WI, WDNR Site #02-05-564043 (Work Plan) (AMEC Foster Wheeler, June 2017)." The Work Plan was reviewed and approved by the WDNR.

2.0 BACKGROUND

The following sections provide a general description of the Site and Site features, the physical setting, Site history and land use, and a summary of previous assessments.

2.1 SITE DESCRIPTION AND FEATURES

As discussed by OMNNI (2015), the Site is located at 988 – 1020 Willard Drive, in the city of Ashwaubenon, Wisconsin in the southeast quarter of the southeast quarter of Section 4, Township 23 North and Range 20 East. The Site is specifically identified as Brown County tax parcel VA-120-5. The Site is relatively flat with a slight slope to the southeast and is occupied by the ATA complex including apartment buildings, paved driveway, parking areas and green space. The surrounding area is a mix of light commercial and residential development.

According to OMNNI (2015) the Site area is underlain by fill at the surface and glacial lake deposits consisting of clay, silt and sand to a depth of approximately 90 ft bgs.

During the 1930's a portion of the Site and land to the south (currently owned by the Ashwaubenon School District and the Village of Ashwaubenon), was used as a borrow pit (OMNNI, 2015). Aerial photos dating back to 1938 illustrate that the Site area contained an apparent borrow pit surrounded by agricultural fields. The borrow pit or outline of the pit was evident until at least 1960 (Figure 3) but was no longer apparent on a 1967 aerial photo. The borrow pit area on the ATA Site and School District/Village property was filled in with paper sludge in some locations. In addition, the pit area on the School District/Village property was used as a town dump. PCBs, possibly associated with the referenced fill materials and/or other sources have been detected at levels above soil criteria at the ATA Site and School District/Village property. The School/Village property was remediated under WDNR Site #02-05-559562 (Ashwaubenon School District/Klipstine Park Site).

The following is a summary of previous investigations conducted at the Site. For reference, soil boring and well locations completed during this current SSI investigation are shown in Figure 4 and borings and wells completed in previous investigations are provided in Figure 4a.

2.1.1 Phase I ESA

According to Mr. Robert Klauk of the WDNR (10/21/15) a Phase I Environmental Site Assessment (ESA) was conducted for the Site when the current owner of the Apartment complex and Site purchased the property approximately nine years ago (2009). The referenced Phase I ESA is not available for review and was not found in a search of the WDNR files by Amec Foster Wheeler on 11/10/15. The WDNR was told by the Site owner that environmental concerns were not identified in this document.

2.1.2 2015 Phase II Subsurface Investigation

In February 2015, OMNNI installed a total of three soil borings (B-1 through B-3) to a depth of 5.5 ft bgs and collected soil samples from 1 to 2 ft and 3 to 4 ft bgs for analysis of PCBs. Boring B-1 was completed in the southeastern corner of the property and borings B-2 and B-3 were conducted on the east-central and west-central portions of the property, respectively. The soil boring locations are depicted in Figure 4a. OMNNI performed this investigation for the WDNR. The investigation results are presented in the "Phase II Subsurface Investigation at the Perry Property, 988-1020 Willard Dr., Parcel VA-120-5, Ashwaubenon, Brown County, WI report (OMNNI, February 2015).

Fill was identified in borings B-1 and B-3 to as much as 3.5 ft bgs. Soil analytical results indicated that soil from 1 to 2 ft bgs at B-1 contains PCBs above the Groundwater Pathway RCL and soil from 1 to 2 ft and 3 to 4 ft bgs at B-3 contained PCBs at levels above the Non-Industrial Direct Contact RCL and the Groundwater Pathway RCL.

According to OMNNI, groundwater is expected to be encountered from 4 to 8 ft bgs and the groundwater flow direction is expected to be to the southeast towards the Fox River. Groundwater was not intercepted in any of the three borings completed as part of the 2015 Phase II.

2.1.3 2016 Site Investigation

The 2016 SI (conducted by Amec Foster Wheeler in June 2016) included a shallow soil and groundwater investigation to delineate PCBs and RCRA Metals in shallow soils and groundwater beneath the Site (Amec Foster Wheeler, 2017). The SOW included the installation and sampling of 12 soil borings installed to depths ranging from 8 ft to 24 ft bgs, including one boring which was converted to and sampled as a temporary monitoring well.

The soil borings conducted during this investigation identified that the Site is underlain by top soil, and sandy clay and/or silty sand where native materials were encountered (on the western portion of the Site). Over the remainder of the Site, within the confines of the former borrow pit, fill was encountered below 1 to 2 ft of topsoil or asphalt and road base. The fill variably consists of sandy clay and/or silty sand, gravel and paper sludge. The fill (where present) extends to depths ranging from 2.5 ft bgs on the eastern side of the Site to as much as 16 ft bgs in the central portion of the Site.

The paper sludge is generally grey in color and has soil like physical properties similar to a medium plasticity silty clay. Paper sludge was identified in 7 out of the 12 borings and ranged in thickness from 0.9 ft at the southeast corner of the Site to 13.5 ft in the central portion of the Site.

Soil analytical results indicated PCBs and two metals (lead and mercury) are present in Site soil above WDNR residential/commercial soil criteria in some locations. A risk analysis performed

using calculated EPCs showed that PCB concentrations and distribution within in the top 4 ft of soil do not present a direct contact risk to potential receptors, however mercury and lead are present at levels of concern. Groundwater sampling indicated that groundwater at the Site is not impacted by PCBs and/or RCRA Metals at levels of concern. In addition, GRO and DRO were also detected at elevated levels in one fill sample in the west-central portion of the Site. This indicates that petroleum impacts may be present in some locations where elevated PID readings and petroleum odor were observed. The source of the total petroleum hydrocarbons is unknown.

3.0 INVESTIGATION ACTIVITIES

The following sections describe the field activities conducted for this SI and provide an overview of the assessment methodologies and analytical protocols utilized. The SOW included a mobilization to the Site to install and sample four soil borings and one temporary monitoring well. Soil samples were collected from all soil borings and a groundwater sample was collected from the temporary well and submitted to Pace Analytical Services in Green Bay Wisconsin (Pace) for analysis. The SOW also included clearing utilities prior to investigation activities, equipment decontamination and staging and sampling of Investigation Derived Waste (IDW).

All work performed at the Site was conducted in accordance with the Site specific health and safety plan (HSP) (Amec Foster Wheeler, June 2016) and was performed using "Level D" personal protective equipment (PPE). Prior to mobilization, the Wisconsin Diggers Hotline One Call (1-[800]-242-8511) was contacted to mark public utilities for the Site. A private utility locator (Private Lines, Inc. of Iola, Wisconsin) conducted private utility clearance at the Site prior to the onset of drilling activities.

3.1 SOIL AND GROUNDWATER INVESTIGATION ACTIVITIES

The soil and groundwater investigation included installation and sampling of four shallow soil borings and one temporary monitoring well using push-probe drilling techniques.

The soil borings (SB17-01 through SB17-04 and Temp Well TW17-01) were installed on August 14, 2017 at the locations shown on Figure 4a. These include:

Soil Borings

- 3 – Push-probe borings at the approximate base of the berm to a depth of 8 ft (or bottom of the fill) on the northern end of the Site.
- 1 – Push-probe boring advanced to a depth of 19 ft bgs at the SB16-06 boring location in the west-central portion of the Site.

Temporary Monitoring Well

- 1 – Push-probe temporary well advanced to 24 ft bgs, at the SB16-01/TW16-01 boring/temp well location on the southeast corner of the Site.

A summary of the soil borings including drilling method, date completed and samples collected is provided in Table 1.

3.1.1 Soil Boring Investigation Methods and Sampling

The soil borings were completed to depths ranging from 8 to 19 ft bgs and were sampled continuously using direct push-probe drilling methods.

The soil borings were logged for lithology to the terminus of the borehole according to the Unified Soil Classification System (USCS) and in accordance with ASTM standards. Soil samples were collected continuously using a 1.5 inch diameter steel macro-core lined with new poly-vinyl chloride (PVC) liners. The PVC liners were cut open, the cores were screened for organic vapors (field screened [open air] using a photo-ionization detector [PID] equipped with a 10.6 EV lamp) and samples were collected into clean, laboratory-supplied containers and packed in an ice-chilled cooler. Soil samples were submitted to Pace for analysis.

Following completion, the soil borings were sealed by introducing bentonite chips from total depth to the surface in each borehole. The borehole conducted in the paved area next to the garage was "topped-off" with an asphalt patch at the surface. Borehole sealing records are provided in Appendix A.

Push-Probe Borings (Base of Berm).
The 3 push-probe borings at or near the base of the berm (SB17-01 through SB17-03) were advanced using direct push-probe drilling methods to a depth of 8 ft bgs.

A total of three soil samples from each of these borings were collected and submitted to the analytical laboratory for analysis. One sample was collected from the upper 2 ft of soil, a second sample was collected from 2 to 4 ft bgs and a third sample was collected either from the apparent most impacted interval within the fill between 4 ft and 8 ft bgs, based on visual observation and PID readings, or the presence of paper sludge if encountered in this interval.

Soil samples submitted for analysis were tested for PCBs and RCRA Metals. These borings were drilled with a trailer mounted push-probe rig towed by an all-terrain vehicle (ATV) to minimize damage to the lawn at the proposed boring locations north of the apartment buildings.

Push-Probe Boring (at SB16-06).
The push-probe boring at SB16-06 (SB17-04) was installed as already described for push-probe borings but was installed into the sand layer encountered between 16 ft and 19 ft bgs during the 2016 SI at SB16-06 (see boring log in Appendix A). One soil sample was collected in this layer below the sludge and clay and was tested for PCBs, RCRA Metals, VOCs and PAHs.

3.1.2 Temporary Monitoring Well and Groundwater Sampling

The push-probe boring at SB16-01/TW16-01 (SB17-05) at the southeast corner of the Site was installed as already described for push-probe borings but was advanced to 24 ft bgs, which is the equivalent depth of TW16-01 completed during the 2016 SI. This boring was converted into a temporary monitoring well (TW17-01). A groundwater sample (which was filtered) was obtained from this well by sampling groundwater directly from a 1-ich poly-vinyl chloride PVC casing/screen assembly (screen length was 5 ft) that was lowered into the borehole. The sample was collected with a peristaltic pump after three well/borehole volumes was removed prior to sampling to reduce turbidity and bring fresh groundwater into the temporary well. Since this is simply a screening

methodology, extracted groundwater was not monitored for stability parameters prior to sampling. The groundwater sample collected was analyzed for PCBs, RCRA Metals, VOCs and PAHs.

3.1.3 Soil and Groundwater Analytical Methods

A total of 10 soil samples and one groundwater sample were analyzed as part of the soil and groundwater investigation. In addition, a total of two soil quality assurance/quality control (QA/QC) samples and three water QA/QC samples were collected and analyzed. Soil QA/QC samples included one duplicate and one equipment rinsate samples. Groundwater QA/QC samples included one duplicate, one rinsate and one trip blank.

The soil and groundwater samples (and associated QA/QC samples) were submitted to Pace using standard chain-of-custody protocol. All soil and groundwater samples were analyzed for PCBs and RCRA Metals. In addition, one soil sample (SB17-04 [17-19]) and groundwater sample (TW17-01-0814) were analyzed for VOCs and PAHs. A summary of analytical methods for soil and groundwater is as follows:

Parameter - Soil	**EPA or WI Method**
• PCBs	8082 w/ 3541 Prep
• RCRA Metals	6010 w/ 7471 Prep
• VOCs	8260B
• PAHs	8270D (via selective ion monitoring [SIM] mode)

Parameter - Water	**EPA or WI Method**
• PCBs	8082 w/3510 Prep
• RCRA Metals	6010 w/7470 Prep
• VOCs	8260B
• PAHs	8270D (via SIM)

The QA/QC samples were analyzed for the same parameters as specified for the corresponding environmental samples.

3.2 INVESTIGATION- DERIVED WASTE

IDW generated during this investigation included soil boring cuttings, temporary well purge water, equipment decontamination water and used PPE.

All IDW soils and water were containerized in Department of Transportation (DOT) approved, locking, labeled 55-gallon drums (1/8th drum of soil and 1/4th drum of water). The drums were placed in a secured parking garage stall at the apartment complex. Labeling on the drums

included the date, type of material in the drum, the point of origin of the material (i.e., ATA Site) and the Amec Foster Wheeler project manager's telephone number.

IDW will be disposed of in accordance with appropriate state and federal regulations. To determine the method of IDW transport and disposal, soil IDW and water IDW were sampled (one IDW soil sample and one IDW water sample) and analyzed for the following parameters:

Parameter - Soil IDW	**EPA Method/or WI Method**
• PCBs	8082 w/3541 Prep
• RCRA Metals	6010 w/ 3050 Prep
• VOCs	8260B
• PAHs	8270D (via SIM mode)
• TCLP – VOCs	8260 – TCLP w/ 1311 Prep
• TCLP – semi-volatile organic compounds (SVOCs)	8270– TCLP w/ 1311 Prep
• TCLP – Metals	6010 – TCLP w/ 3010 Prep
• pH	4500-H+B
• Flashpoint	1010

Parameter – Water IDW	**EPA Method**
• PCBs	8082 w/3510 Prep
• RCRA Metals	6010 w/3010 Prep
• VOCs	8260B
• pH	4500-H+B
• Flashpoint	1010
• Chemical Oxygen Demand (COD)	410.4
• Total suspended solids (TSS)	2540D

Used PPE (i.e., sampling gloves, trash etc.) were decontaminated to the extent possible and placed in plastic garbage bags and disposed of as municipal waste in a dumpster at the Site.

Soil and water IDW was staged on-Site until analytical data was reviewed to determine proper disposal (discussed in Section 4.2.4).

3.3 SURVEYING

Prior to boring installation activities, Amec Foster Wheeler had the borings at the base of the berm along the north border of the property and the north property line staked/marked. This was done by a registered land surveyor (JSD Professional Services, Inc., of Verona, WI). These data points were surveyed to the nearest 0.1 foot vertically and horizontally and reported in Universal Transverse Mercator (UTM) Zone 16 and Wisconsin State Plane Central Zone coordinates. The remaining borings along the west end of the garage and the temporary well position on the

southeast corner of the property were completed adjacent the former 2016 SI borings so the new positions were not pre-surveyed. Following the installation activities all of the soil borings (including those along the north property line that had to be moved from their surveyed/marked positions due to drill rig access issues) and the temporary well were located with a hand held sub-meter global positioning system (GPS). These data points were also reported in UTM Zone 16 and Wisconsin State Plane Central Zone coordinates. The temporary well top at TW16-01 was measured with a tape with reference to the surveyed ground surface. Elevations are reported in ft above North American Vertical Datum 1988 (NAVD88). The survey data are contained in Appendix B.

4.0 PRESENTATION OF RESULTS

The following sections summarize investigation results.

4.1 SUBSURFACE CONDITIONS

4.1.1 Geologic Setting

The soil borings conducted during the 2016 SI investigation identified that the Site is underlain by top soil, and sandy clay and/or silty sand where native materials were encountered (on the western portion of the Site). Over the remainder of the Site, within the confines of the former borrow pit, fill was encountered below 1 to 2 ft of topsoil or asphalt and road base. The fill variably consists of sandy clay and/or silty sand, gravel and paper sludge. The fill (where present) extends to depths ranging from 2.5 ft bgs on the eastern side of the Site to as much as 16 ft bgs in the central portion of the Site.

The paper sludge is generally grey in color and has soil like physical properties similar to a medium plasticity silty clay. Paper sludge was identified in 7 out of the 12 borings and ranged in thickness from 0.9 ft at the southeast corner of the Site to 13.5 ft in the central portion of the Site.

The current SSI added three borings to the north end of the Site (SB17-01 through SB17-3) along the northern property border. These borings show that the fill thins from the central portion of the Site to 5 ft or less on the northern border (Figures 5 and 6, 6a, 6b). Only one interval (1-2 ft) in SB17-02 on the north central border contained a trace of grey clay interpreted to be paper sludge.

4.2 ANALYTICAL DATA

All soil samples and the lone groundwater sample were analyzed for the presence of PCBs and RCRA Metals. In addition, one soil sample (SB17-04 [17-19]) and groundwater sample (TW17-01-0814) were analyzed for VOCs and PAHs. Samples were collected using the methods identified in section 3.0. All samples were submitted to Pace for analytical testing. The following sections present the results for soil and groundwater.

4.2.1 Data Quality Review

A level II data quality review (DQR) was completed for all soil and groundwater samples collected as part of this investigation to evaluate the usability of the data. Laboratory analytical reports and supporting documentation were reviewed to assess completeness, chain-of-custody (COC) compliance, holding time compliance, presence or absence of laboratory contamination, sampling and analytical precision (field duplicates) and assessment of field contamination (field blanks).

Amec Foster Wheeler evaluated a total of 744 data records from the August 2017 soil and groundwater sampling event. Amec Foster Wheeler J-flagged (estimated) 19 records (2.6%) due

to analyte concentrations between the method detection limit (MDL) and the reporting limit (RL) and field duplicate imprecision. No records were rejected during validation. Amec Foster Wheeler also U qualified (not-detected) 7 results (0.9%) due to analyte detections in the associated equipment and/or laboratory blanks.

Amec Foster Wheeler concluded that all of the data should be considered valid with the addition of the qualifiers noted in the quality assurance check sheets. Quality assurance check sheets are included in Appendix C.

4.2.2 Soil

Soil samples were collected from all three borings along the north property border (SB17-01 through SB17-03) for PCBs and RCRA Metals and the soil boring on the west end of the garage (SB17-04) for PCBs, RCRA Metals, VOCs and PAHs. Soil analytical results were compared to WDNR Non-Industrial RCLs, Industrial RCLs, Soil to Groundwater RCLs and a WDNR direct contact action level of 1 milligram per kilogram (mg/kg) for total PCBs in the top 4 ft of soil. All these criteria are collectively hereafter be referred to as “soil criteria”.

Soil PID screening results are provided in the boring logs. Soil analytical results are presented in Table 2 and shown on Figures 7 and 8. Laboratory analytical reports and Amec Foster Wheeler’s data quality review report are included in Appendix C.

PID Readings
No PID readings were detected in the borings along the north property border. Elevated PID responses (greater than 10 parts per million [ppm]) were observed in SB17-04 from 4.5 to 13.5 bgs and at 17.5 bgs. No free product was observed in any of the soil borings.

PCBs
PCB Aroclors 1248, 1254 and 1260 were detected above soil criteria in one soil sample (1-2 ft bgs) from one soil boring (SB17-02) completed near the northern property border (Figure 7) at the following concentrations:

- **1248:** 1.19 mg/kg
- **1254**: 0.939 mg/kg
- **1260:** 0.706 mg/kg

No PCBs were detected in the sample collected from SB17-04 completed on the west end of the garage at 17 to 19 ft bgs. The exceedances in SB17-02 were above the Soil to Groundwater RCL and either the Industrial RCL or Non-industrial RCL. The PCB total Aroclor concentration in the SB17-02 sample was 2.84 mg/kg which is above the 1 mg/kg action level for total PCBs in the top 4 ft of soil.

RCRA Metals

Arsenic, was detected in soil samples at levels above soil criteria (the Industrial RCL, Non-industrial RCL and Soil to Groundwater RCL). In addition, barium, cadmium, lead, mercury and silver were detected at levels above the Soil to Groundwater RCL (Figure 8).

Arsenic was detected in soil samples collected from all 4 soil borings at concentrations ranging from 1.1 mg/kg to 2.8 mg/kg. These detections were within background levels for soils in Brown County, Wisconsin (between 1.09 mg/kg and 5.97 mg/kg) as defined by the United States Geological Survey (USGS). Because arsenic was found near or within background levels, the arsenic detections are assumed to be from background sources.

Barium, cadmium, lead, mercury and silver were detected at levels above only the Soil to Groundwater RCL at SB17-02. These levels are considered to be low and of no concern.

VOCs and PAHs

The soil sample collected at 17 to 19 ft bgs at soil boring SB17-04 completed at the west end of the garage was tested for VOCs and PAHs in addition to PCBs and RCRA Metals. No VOCs or PAHs (in addition to PCBs) were detected in this sample. The metals chromium and lead were detected in this sample but at low levels below soil criteria.

4.2.3 Groundwater

One water sample was collected from temporary well TW17-01 which was completed in soil boring SB17-05 on the southeast corner of the Site. This sample was collected and analyzed for PCBs, RCRA metals, VOCs and PAHs. The metals sample was filtered in the field prior to sample collection.

Groundwater analytical results for these parameters were compared to WDNR NR 140 Enforcement Standard (ES), NR140 Preventative Action Limit (PAL) and the US Environmental Protection Agency (USEPA) Maximum Contaminant Levels (MCLs). These criteria are collectively hereafter referred to as “groundwater criteria”.

The only parameters detected were low levels of metals (arsenic, barium, cadmium, lead, selenium and silver) and a PAH (pyrene), which are all below groundwater criteria.

The groundwater analytical results are summarized in Table 3 and on Figures 7 and 8.

4.2.4 Investigation Derived Waste

A total of approximately 0.04 cubic yards (1/8th of a 55 gallon drum) of soil IDW and approximately 14 gallons (1/4th drum) of IDW water were generated during this investigation. One soil IDW sample and one water IDW sample were collected and submitted for laboratory analysis.

Analytical results from the IDW samples are provided in Appendix C and D. Based on these results the soil and water IDW are considered non-hazardous. The soil and groundwater IDW will be transported to and disposed at Badger Disposal of Wisconsin, Inc. in Milwaukee, WI. The waste manifest and Certificate of Destruction/Disposal will be provided to the WDNR upon disposal.

5.0 FINDINGS AND CONCLUSIONS

This section presents the findings and conclusions of the SSI conducted at the ATA Site during August 2017.

The SSI included installing and sampling four soil borings and one temporary monitoring well. Three borings were conducted along the northern Site/property border (SB17-01 through SB17-03) to determine if fill with potential impacts of PCBs and/or RCRA Metals pinches out on the north end of the Property. One soil boring (SB17-04) was conducted on the west side of the garage located in the west-central portion of the Site to document soil quality immediately below the fill at that location. A temporary well (TW17-01) was completed at the southeast corner of the Site to determine if groundwater is impacted by VOCs and/or PAHs, and to reconfirm groundwater analytical results for PCBs and RCRA Metals from the 2016 SI.

5.1 FINDINGS

5.1.1 Geology/Stratigraphy

Drilling logs for the soil borings completed along the northern Site border indicate that fill, which is deepest in the central portion of the Site (up to 16 ft deep) thins to 5 ft or less on the northern border. In addition, only one interval (1-2 ft) in soil boring SB17-02 (the center boring along the north Site border) contained any evidence of paper sludge, which was present at trace levels in the referenced sample. No evidence of paper sludge was observed in samples collected from 2 to 4 ft and 5 to 7 ft bgs at this location.

5.1.2 Soil Analytical Results

Soil samples from borings SB17-01 through SB17-03 were tested for PCBs and Metals. The sample collected from SB17-04 was tested for PCBs, Metals, VOCs and PAHs. Soil analytical results indicate that only PCBs are present at levels of concern above soil criteria, and this occurred in the surficial sample from SB17-02.

5.1.3 Groundwater Analytical Results

One groundwater sample was collected from temporary well TW17-01 at the southeast corner of the Site. This sample was analyzed for PCBs, RCRA Metals, VOCs and PAHs. The only parameters detected were low levels of metals (arsenic, barium, cadmium, lead, selenium and silver) and a PAH (pyrene), which are all below groundwater criteria.

5.2 CONCLUSIONS

The purpose of this SSI was to further investigate the nature and extent of PCBs and RCRA Metals in soil and groundwater that have been detected at the ATA Site (during two previous

investigations), potentially associated with fill, including paper mill sludge, historically placed at the Site. In addition, the nature and extent of GRO and DRO, which were detected during the 2016 SI in soil at one location in the west-central portion of the Site, were to be further defined. These objectives were attained.

The SSI showed that fill deposited in former borrow pit that previously occupied the Site area thins to 0 ft to 5 ft bgs along the northern border and that PCBs at levels of concern are present at only one location at the north-central Site border in the top 2 ft of soil. RCRA Metals were also tested for but were not detected above soil criteria at levels of concern. The remainder of the fill sampled at the north end of the Site was not-impacted at levels above soil criteria. Analytical results from the soil boring completed at the west end of the garage showed no detections of PCBs, RCRA Metals, VOCs or PAHs above soil criteria, and groundwater analytical results from the temporary well at the southeast end of the Site was not impacted by PCBs, RCRA Metals, VOCs or PAHs at levels of concern.

Based on the results of this SSI and previous investigations, Amec Foster Wheeler believes that the fill extent and soil and groundwater quality at the Site have been adequately defined with the exception of PCBs at one location along the north-central Site border (SB17-02) in the top 2 ft of soil. As noted in Section 1.0, following completion of this SSI, representatives from GP, Amec Foster Wheeler, and the WDNR met to discuss the SSI investigation results. During this meeting, the WDNR requested additional hand auger soil sampling be performed between the northern Site property line and Boring SB17-02 to determine if the PCB impacts of concern terminate south of the Site property line. These samples were collected on December 20, 2017.

Analytical results of the hand auger sampling effort are presented in an addendum to this SSI Report (Amec Foster Wheeler, January 2018). As documented in the addendum, the hand auger investigation results show that PCBs detected in shallow soil at SB17-02 do not extend off-Site and therefore Site related impacts to soil and groundwater have been adequately defined. Going forward, Amec Foster Wheeler and Georgia Pacific will work with the WDNR to determine a remedial strategy for shallow soils with impacts that present a potential risk at the Site.

6.0 REFERENCES

Amec Foster Wheeler, January 2018. Site Investigation Report Addendum, Ashview Terrace Apartments Site, Ashwaubenon, Brown County, WI.

Amec Foster Wheeler, June 2017. Site Investigation Report, Ashview Terrace Apartments Site, Ashwaubenon, Brown County, WI.

Amec Foster Wheeler, June 2016. Site Specific Health and Safety Plan, Ashview Terrace Apartments Phase II ESA, 988 – 1020 Willard Drive, Ashwaubenon, WI.

Amec Foster Wheeler, April 2016. Work Plan to Conduct a Phase II Environmental Site Assessment (ESA) at the Ashview Terrace Apartments Site at 988 – 1020 Willard Drive, Ashwaubenon, WI, WDNR Site #02-05-564043.

OMNNI, February 2015. Phase II Subsurface Investigation at the Perry Property, 988-1020 Willard Dr., Parcel VA-120-5, Ashwaubenon, Brown County, WI Report.

USEPA June 2016. ProUCL software version 5.1 – for Environmental Applications for Datasets with and without Nondetect Observations.

TABLES

Table 1
Soil Boring Summary
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

Soil Boring / Monitoring Well	Boring Depth (ft)	Drilling Method	Drilling Company	Date Installed / Completed	Soil Samples Collected Per Boring	Sample Name
SB16-01	24	Direct Push Probe	Probe Tech	6/21/2016	4	SB16-01 (1-2) SB16-01 (1-2)-Dup SB16-01 (3-4) SB16-01 (3-4)-Dup
TW16-01	24 Screen Depth (19-24)	Direct Push Probe	Probe Tech	6/21/2016	2	TW16-01 TW16-01-DUP
SB16-02	19.5	Direct Push Probe	Probe Tech	6/21/2016	2	SB16-02 (2-4) SB16-02 (5-7)
SB16-03	18	Direct Push Probe	Probe Tech	6/21/2016	3	SB16-03 (1-2) SB16-03 (9-10.5)
SB16-04	15	Direct Push Probe	Probe Tech	6/21/2016	2	SB16-04 (1-2) SB16-04 (3-4.5)
SB16-05	19	Direct Push Probe	Probe Tech	6/21/2016	4	SB16-05 (1-1.52) SB16-05 (2-4) SB16-05 (6-8) SB16-05 (11-12)
SB16-06	19.75	Direct Push Probe	Probe Tech	6/22/2016	2	SB16-06 (2-4) SB16-06 (6-8)
SB16-07	8	Direct Push Probe	Probe Tech	6/22/2016	2	SB16-07 (1-2) SB16-07 (2-4)
SB16-08	8	Direct Push Probe	Probe Tech	6/22/2016	2	SB16-08 (0.5-1.5) SB16-08 (2-4)
SB16-09	8	Direct Push Probe	Probe Tech	6/22/2016	3	SB16-09 (1-2) SB16-09 (2-4) SB16-09 (2-4)-Dup
SB16-10	12	Direct Push Probe	Probe Tech	6/22/2016	2	SB16-10 (1-2) SB16-10 (2-4)
SB16-11	8	Direct Push Probe	Probe Tech	6/22/2016	2	SB16-11 (0.5-1.5) SB16-11 (2-4)
SB16-12	8	Direct Push Probe	Probe Tech	6/22/2016	2	SB16-12 (2.5-3.5) SB16-12 (3.5-4.5)
SB17-01	8	Direct Push Probe	Probe Tech	8/14/2017	3	SB17-01-01-02 SB17-01-02-04 SB17-01-06-08
SB17-02	8	Direct Push Probe	Probe Tech	8/14/2017	3	SB17-02-01-02 SB17-02-02-04 SB17-02-05-07
SB17-03	8	Direct Push Probe	Probe Tech	8/14/2017	3	SB17-03-01-02 SB17-03-02-04 SB17-03-05-07
SB17-04	19.7	Direct Push Probe	Probe Tech	8/14/2017	2	SB17-04-17-19 SB17-DUP-01

Probe Tech - Probe Technologies

Table 2
Soil Analytical Results - June 2016
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

PARAMETER	Well Identification			SB17-01			SB17-02			SB17-03			SB17-04	
	Sample Number			SB17-01-01-02	SB17-01-02-04	SB17-01-06-08	SB17-02-01-02	SB17-02-02-04	SB17-02-05-07	SB17-03-01-02	SB17-03-02-04	SB17-03-05-07	SB17-04-17-19	SB17-DUP-01
	Sample Delivery Group			40155012007	40155012006	40155012008	40155012009	40155012010	40155012011	40155012014	40155012015	40155012016	40155012005	40155012013
	Sample Date			8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017
	Groundwater Criteria													
	Non-Industrial RCL	Industrial RCL	Soil to Groundwater RCL											
METALS (mg/kg)														
Arsenic	0.677	3	0.292	1.9 J	2.8 J	1.1U	4.4 J	2.0 J	1.9 J	1.1U	1.0U	1.1U	1.1 J	1.8 J
Barium	15,300	100,000	82.4	25.1	29.3	4.1	246	39.4	52.7	28.0	13.6	13.4	9.8	20.9
Cadmium	71.1	985	0.376	0.13U	0.15U	0.14U	10.0	0.14U	0.14U	0.14U	0.13U	0.14U	0.14U	0.15U
Chromium	--	--	180,000	13.6	20.0	3.4	65.5	11.9	21.5	13.0	7.1	7.6	6.2	10.4
Lead	400	800	13.5	5.8	4.7	1.5	294	5.0	4.2	4.2	1.6	1.7	1.6	2.5
Mercury	3.13	3.13	0.104	0.012U	0.012U	0.010U	4.4	0.012U	0.012U	0.011U	0.010U	0.013 J	0.012U	0.012U
Selenium	391	5,840	0.26	1.1U	1.3U	1.1U	1.3U	1.2U	1.1U	1.1U	1.1U	1.1U	1.2U	1.2U
Silver	391	5,840	0.4245	0.34U	0.40U	0.35U	2.5	0.37U	0.35U	0.36U	0.33U	0.35U	0.36U	0.38U
POLYCHLORINATED BIPHENYLS (mg/kg)														
PCB-1016 (Aroclor 1016)	4.11	28	--	0.0270U	0.0291U	0.0258U	0.0884U	0.0284U	0.0272U	0.0262U	0.0255U	0.0258U	0.0265U	0.0286U
PCB-1221 (Aroclor 1221)	0.213	0.883	--	0.0270U	0.0291U	0.0258U	0.0884U	0.0284U	0.0272U	0.0262U	0.0255U	0.0258U	0.0265U	0.0286U
PCB-1232 (Aroclor 1232)	0.19	0.792	--	0.0270U	0.0291U	0.0258U	0.0884U	0.0284U	0.0272U	0.0262U	0.0255U	0.0258U	0.0265U	0.0286U
PCB-1242 (Aroclor 1242)	0.235	0.972	--	0.0270U	0.0291U	0.0258U	0.0884U	0.0284U	0.0272U	0.0262U	0.0255U	0.0258U	0.0265U	0.0286U
PCB-1248 (Aroclor 1248)	0.236	0.975	--	0.0270U	0.0291U	0.0258U	1.19	0.0284U	0.0272U	0.0262U	0.0255U	0.0258U	0.0265U	0.0286U
PCB-1254 (Aroclor 1254)	0.239	0.988	--	0.0329 J	0.0291U	0.0258U	0.939	0.0284U	0.0272U	0.0262U	0.0255U	0.0258U	0.0265U	0.0286U
PCB-1260 (Aroclor 1260)	0.243	1	--	0.0270U	0.0291U	0.0258U	0.706	0.0284U	0.0272U	0.0262U	0.0255U	0.0258U	0.0265U	0.0286U
PCB, Total	0.234	0.967	0.0047	0.0329 J	0.0291U	0.0258U	2.84	0.0284U	0.0272U	0.0262U	0.0255U	0.0258U	0.0265U	0.0286U
TOTAL EXTRACTABLE HYDROCARBONS (mg/kg)														
Diesel Range Organics	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gasoline Range Organics	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,1,1,2-Tetrachloroethane	2.78	12.3	0.0267	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,1,1-Trichloroethane	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,1,2,2-Tetrachloroethane	0.81	3.6	0.0000782	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,1,2-Trichloroethane	1.59	7.01	0.0016	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,1-Dichloroethane	5.06	22.2	0.2417	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,1-Dichloroethene	320	1,190	0.0025	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,1-Dichloropropene	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,2,3-Trichlorobenzene	62.6	934	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,2,3-Trichloropropane	0.005	0.109	0.026	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,2,4-Trichlorobenzene	24	113	0.204	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0476U	0.0476U
1,2,4-Trimethylbenzene	219	219	0.691	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,2-Dibromo-3-chloropropane	0.008	0.092	0.0000864	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0912U	0.0912U
1,2-Dibromoethane (EDB)	0.05	0.221	0.0000141	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,2-Dichlorobenzene	376	376	0.584	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,2-Dichloroethane	0.652	2.87	0.0014	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,2-Dichloropropane	0.406	1.78	0.0017	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,3,5-Trimethylbenzene	182	182	0.691	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,3-Dichlorobenzene	297	297	0.5764	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,3-Dichloropropane	1,490	1,490	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
1,4-Dichlorobenzene	3.74	16.4	0.072	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
2,2-Dichloropropane	191	191	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
2-Chlorotoluene	907	907	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
4-Chlorotoluene	253	253	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Benzene	1.6	7.07	0.0026	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Bromobenzene	342	679	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Bromochloromethane	216	906	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Bromodichloromethane	0.418	1.83	0.0002	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Bromoform	25.4	113	0.0012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Bromomethane	9.6	43	0.0025	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0699U	0.0699U
Carbon tetrachloride	0.916	4.03	0.0019	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Chlorobenzene	370	761	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Chloroethane	--	--	0.1133	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0670U	0.0670U
Chloroform	0.454	1.98	0.0017	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0464U	0.0464U
Chloromethane	159	669	0.1133	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
cis-1,2-Dichloroethene	156	2,340	0.0206	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
cis-1,3-Dichloropropene	1,210	1,210	0.0001	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Dibromochloromethane	8.28	38.9	0.016	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Dibromomethane	34	143	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Dichlorodifluoromethane	126	530	1.5431	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Diisopropyl ether	2,260	2,260	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Ethylbenzene	8.02	35.4	0.785	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U

Table 2
Soil Analytical Results - June 2016
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

PARAMETER	Well Identification			SB17-01			SB17-02			SB17-03			SB17-04	
	Sample Number			SB17-01-01-02	SB17-01-02-04	SB17-01-06-08	SB17-02-01-02	SB17-02-02-04	SB17-02-05-07	SB17-03-01-02	SB17-03-02-04	SB17-03-05-07	SB17-04-17-19	SB17-DUP-01
	Sample Delivery Group			40155012007	40155012006	40155012008	40155012009	40155012010	40155012011	40155012014	40155012015	40155012016	40155012005	40155012013
	Sample Date			8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017	8/14/2017
	Groundwater Criteria													
	Non-Industrial RCL	Industrial RCL	Soil to Groundwater RCL											
Hexachloro-1,3-butadiene	1.63	7.19	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Isopropylbenzene (Cumene)	268	268	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
m&p-Xylene	260	260	1.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0500U	0.0500U
Methylene Chloride	61.8	1,150	0.0013	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Methyl-tert-butyl ether	63.8	282	0.0135	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Naphthalene	5.52	24.1	0.3291	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0400U	0.0400U
n-Butylbenzene	108	108	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
n-Propylbenzene	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
o-Xylene	260	260	1.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
p-Isopropyltoluene	162	162	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
sec-Butylbenzene	145	145	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Styrene	867	867	0.11	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
tert-Butylbenzene	183	183	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Tetrachloroethene	33	145	0.0023	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Toluene	818	818	0.5536	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
trans-1,2-Dichloroethene	1,560	1,850	0.0313	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
trans-1,3-Dichloropropene	1,510	1,510	0.0001	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Trichloroethene	1.3	8.41	0.0018	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Trichlorofluoromethane	1,230	1,230	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
Vinyl chloride	0.067	2.08	0.000069	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0250U	0.0250U
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)														
1-Methylnaphthalene	17.6	72.7	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0043U	0.0046U
2-Methylnaphthalene	239	3,010	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0053U	0.0057U
Acenaphthene	3,590	45,200	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0041U	0.0044U
Acenaphthylene	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0035U	0.0038U
Anthracene	17,900	100,000	98.4746	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0061U	0.0065U
Benzo(a)anthracene	1.14	20.8	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0034U	0.0036U
Benzo(a)pyrene	0.115	2.11	0.235	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0027U	0.0029U
Benzo(b)fluoranthene	1.15	21.1	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0030U	0.0032U
Benzo(g,h,i)perylene	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0022U	0.0023U
Benzo(k)fluoranthene	11.5	211	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0027U	0.0029U
Chrysene	115	2,110	0.0723	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0036U	0.0039U
Dibenz(a,h)anthracene	0.115	2.11	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0024U	0.0026U
Fluoranthene	2,390	30,100	44.4389	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0055U	0.0060U
Fluorene	2,390	30,100	7.415	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0044U	0.0047U
Indeno(1,2,3-cd)pyrene	1.15	21.1	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0023U	0.0025U
Naphthalene	5.52	24.1	0.3291	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0089U	0.0096U
Phenanthrene	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0123U	0.0133U
Pyrene	1,790	22,600	27.2727	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0048U	0.0052U

Notes:
mg/kg = milligrams per kilogram
RCL = Residual Contaminant Level
J = Estimated concentration
U = Parameter not detected above laboratory reporting limits
NS = Not sampled
Regulatory Criteria
-- = Criteria not established
Cells are highlighted based upon the highest regulatory criteria the analyte detection exceeds per the following colors;
= Parameter detected above Non-Industrial RCL
= Parameter detected above Industrial RCL
= Parameter detected above Soil to Groundwater RCL
Wisconsin DNR Resources for Environmental Professionals - Soil Residual Contaminant Levels [accessed 10/03/2017] http://dnr.wi.gov/topic/brownfields/professionals.html

Table 3
Groundwater Analytical Results - June 2016
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

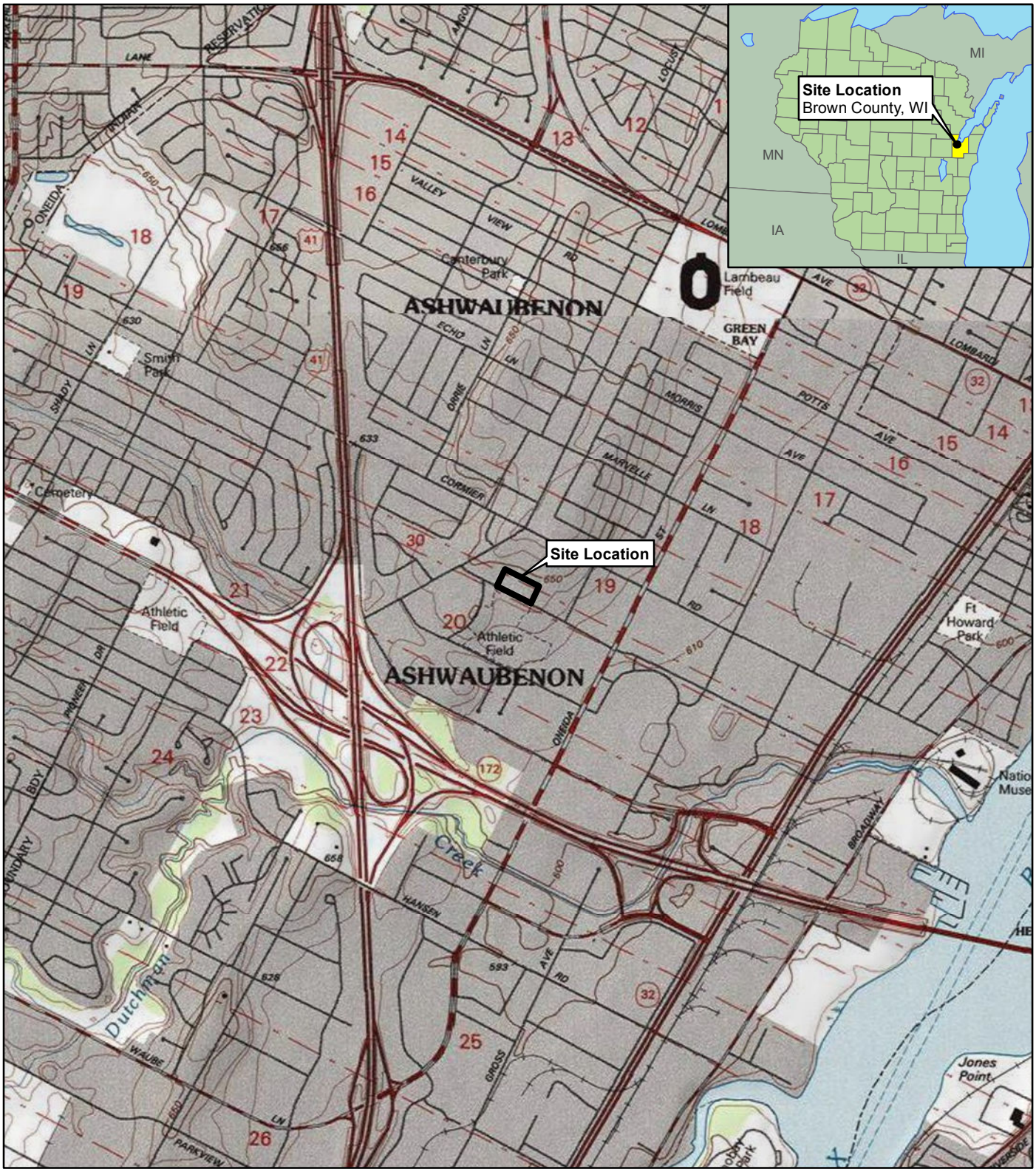
PARAMETER	Well Identification			TW17-01	
	Sample Number			TW17-01	TW17-DUP-01
	Sample Delivery Group			40155012003	40155012013
	Sample Date			8/14/2017	8/14/2017
	Groundwater Criteria				
	NR140 Enforcement Standard (ES)[1]	NR140 Preventative Action Limit (PAL)[1]	USEPA Maximum Contaminant Level (MCL)[2]		
DISOLVED METALS (µg/L)					
Arsenic	10	1	10	0.28U	0.47 J
Barium	2,000	400	2,000	28.3	28.3
Cadmium	5	0.5	5	0.14 J	0.28 J
Chromium	100	10	100	1.0U	1.0U
Lead	15	1.5	--	0.20U	0.33 J
Mercury	2	0.2	2	0.13U	0.13U
Selenium	50	10	50	0.79 J	1.2
Silver	50	10	--	0.10U	0.12 J
TOTAL METALS (µg/L)					
Arsenic	10	1	10	NS	NS
Barium	2,000	400	2,000	NS	NS
Cadmium	5	0.5	5	NS	NS
Chromium	100	10	100	NS	NS
Lead	15	1.5	--	NS	NS
Mercury	2	0.2	2	NS	NS
Selenium	50	10	50	NS	NS
Silver	50	10	--	NS	NS
POLYCHLORINATED BIPHENYLS (µg/L)					
PCB-1016 (Aroclor 1016)	--	--	--	0.27U	0.26U
PCB-1221 (Aroclor 1221)	--	--	--	0.27U	0.26U
PCB-1232 (Aroclor 1232)	--	--	--	0.27U	0.26U
PCB-1242 (Aroclor 1242)	--	--	--	0.27U	0.26U
PCB-1248 (Aroclor 1248)	--	--	--	0.27U	0.26U
PCB-1254 (Aroclor 1254)	--	--	--	0.27U	0.26U
PCB-1260 (Aroclor 1260)	--	--	--	0.27U	0.26U
PCB, Total	0.03	0.003	0.5	0.27U	0.26U
VOLATILE ORGANIC COMPOUNDS (µg/L)					
1,1,1,2-Tetrachloroethane	70	7	--	0.18U	0.18U
1,1,1-Trichloroethane	200	40	200	0.50U	0.50U
1,1,2,2-Tetrachloroethane	0.2	0.02	--	0.25U	0.25U
1,1,2-Trichloroethane	5	0.5	5	0.20U	0.20U
1,1-Dichloroethane	850	85	--	0.24U	0.24U
1,1-Dichloroethene	7	0.7	7	0.41U	0.41U
1,1-Dichloropropene	--	--	--	0.44U	0.44U
1,2,3-Trichlorobenzene	--	--	--	2.1U	2.1U
1,2,3-Trichloropropane	60	12	--	0.50U	0.50U
1,2,4-Trichlorobenzene	70	14	70	2.2U	2.2U
1,2,4-Trimethylbenzene	480	96	--	0.50U	0.50U
1,2-Dibromo-3-chloropropane	0.2	0.02	0.2	2.2U	2.2U
1,2-Dibromoethane (EDB)	0.05	0.005	--	0.18U	0.18U
1,2-Dichlorobenzene	600	60	600	0.50U	0.50U
1,2-Dichloroethane	5	0.5	5	0.17U	0.17U
1,2-Dichloropropane	5	0.5	5	0.23U	0.23U
1,3,5-Trimethylbenzene	480	96	--	0.50U	0.50U
1,3-Dichlorobenzene	600	120	--	0.50U	0.50U
1,3-Dichloropropane	--	--	--	0.50U	0.50U
1,4-Dichlorobenzene	75	15	75	0.50U	0.50U
2,2-Dichloropropane	--	--	--	0.48U	0.48U
2-Chlorotoluene	--	--	--	0.50U	0.50U
4-Chlorotoluene	--	--	--	0.21U	0.21U
Benzene	5	0.5	5	0.50U	0.50U
Bromobenzene	--	--	--	0.23U	0.23U
Bromochloromethane	--	--	--	0.34U	0.34U
Bromodichloromethane	0.6	0.06	--	0.50U	0.50U
Bromoform	4.4	0.44	--	0.50U	0.50U
Bromomethane	10	1	--	2.4U	2.4U
Carbon tetrachloride	5	0.5	5	0.50U	0.50U
Chlorobenzene	--	--	100	0.50U	0.50U
Chloroethane	400	80	--	0.37U	0.37U
Chloroform	6	0.6	--	2.5U	2.5U
Chloromethane	30	3	--	0.50U	0.50U
cis-1,2-Dichloroethene	70	7	70	0.26U	0.26U
cis-1,3-Dichloropropene	0.4	0.04	--	0.50U	0.50U
Dibromochloromethane	60	6	--	0.50U	0.50U
Dibromomethane	--	--	--	0.43U	0.43U
Dichlorodifluoromethane	1,000	200	--	0.22U	0.22U
Diisopropyl ether	--	--	--	0.50U	0.50U
Ethylbenzene	700	140	700	0.50U	0.50U
Hexachloro-1,3-butadiene	--	--	--	2.1U	2.1U
Isopropylbenzene (Cumene)	--	--	--	0.14U	0.14U
m&p-Xylene	2,000	400	10,000	1.0U	1.0U
Methylene Chloride	5	0.5	--	0.23U	0.23U
Methyl-tert-butyl ether	60	12	--	0.17U	0.17U
Naphthalene	100	10	--	2.5U	2.5U
n-Butylbenzene	--	--	--	0.50U	0.50U
n-Propylbenzene	--	--	--	0.50U	0.50U
o-Xylene	2,000	400	10,000	0.50U	0.50U
p-Isopropyltoluene	--	--	--	0.50U	0.50U
sec-Butylbenzene	--	--	--	2.2U	2.2U
Styrene	100	10	100	0.50U	0.50U
tert-Butylbenzene	--	--	--	0.18U	0.18U

Table 3
Groundwater Analytical Results - June 2016
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

PARAMETER	Well Identification			TW17-01	
			Sample Number	TW17-01	TW17-DUP-01
			Sample Delivery Group	40155012003	40155012013
			Sample Date	8/14/2017	8/14/2017
	Groundwater Criteria				
	NR140 Enforcement Standard (ES)[1]	NR140 Preventative Action Limit (PAL)[1]	USEPA Maximum Contaminant Level (MCL)[2]		
Tetrachloroethene	5	0.5	5	0.50U	0.50U
Toluene	800	160	1,000	0.50U	0.50U
trans-1,2-Dichloroethene	100	20	100	0.26U	0.26U
trans-1,3-Dichloropropene	0.4	0.04	--	0.23U	0.23U
Trichloroethene	5	0.5	5	0.33U	0.33U
Trichlorofluoromethane	--	--	--	0.18U	0.18U
Vinyl chloride	0.2	0.02	2	0.18U	0.18U
POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)					
1-Methylnaphthalene	--	--	--	0.0057U	0.0064U
2-Methylnaphthalene	--	--	--	0.0048U	0.0053U
Acenaphthene	--	--	--	0.0059U	0.0066U
Acenaphthylene	--	--	--	0.0048U	0.0054U
Anthracene	3,000	600	--	0.010U	0.011U
Benzo(a)anthracene	--	--	--	0.0073U	0.0082U
Benzo(a)pyrene	0.2	0.02	0.2	0.010U	0.011U
Benzo(b)fluoranthene	0.2	0.02	--	0.0056U	0.0062U
Benzo(g,h,i)perylene	--	--	--	0.0066U	0.0074U
Benzo(k)fluoranthene	--	--	--	0.0073U	0.0082U
Chrysene	0.2	0.02	--	0.013U	0.014U
Dibenz(a,h)anthracene	--	--	--	0.0097U	0.011U
Fluoranthene	400	80	--	0.010U	0.012U
Fluorene	400	80	--	0.0077U	0.0087U
Indeno(1,2,3-cd)pyrene	--	--	--	0.017U	0.019U
Naphthalene	100	10	--	0.018U	0.020U
Phenanthrene	--	--	--	0.013U	0.015U
Pyrene	250	50	--	0.016 U	0.0087 U
Total PAHs	--	--	--	0.024 U	0.014 U

Notes:
µg/L = micrograms per liter
J = Estimated concentration
U = Parameter not detected above laboratory reporting limits
NS = Not sampled
Regulatory Criteria
-- = Criteria not established
Cells are highlighted based upon the highest regulatory criteria the analyte detection exceeds per the following colors;
= Parameter detected above NR140 Enforcement Standard[1]
= Parameter detected above NR140 Preventative Action Limit[1]
= Parameter detected above USEPA Maximum Contaminant Level[2]
[1]Wisconsin Administrative Code Chapter NR 140 - Groundwater Quality, Section 140.10 [accessed 10/03/2017] http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140/II/10
[2]USEPA Table of Regulated Drinking Water Contaminants (accessed 10/03/2017) https://www.epa.gov/ground-water-and-drinking-water/table-regulated-drinking-water-

FIGURES



Legend

Approximate Site Boundary

1:24,000 — 1 inch equals 2,000 feet

Approximate Scale in Feet

0 — 2,000 — 4,000 — 6,000

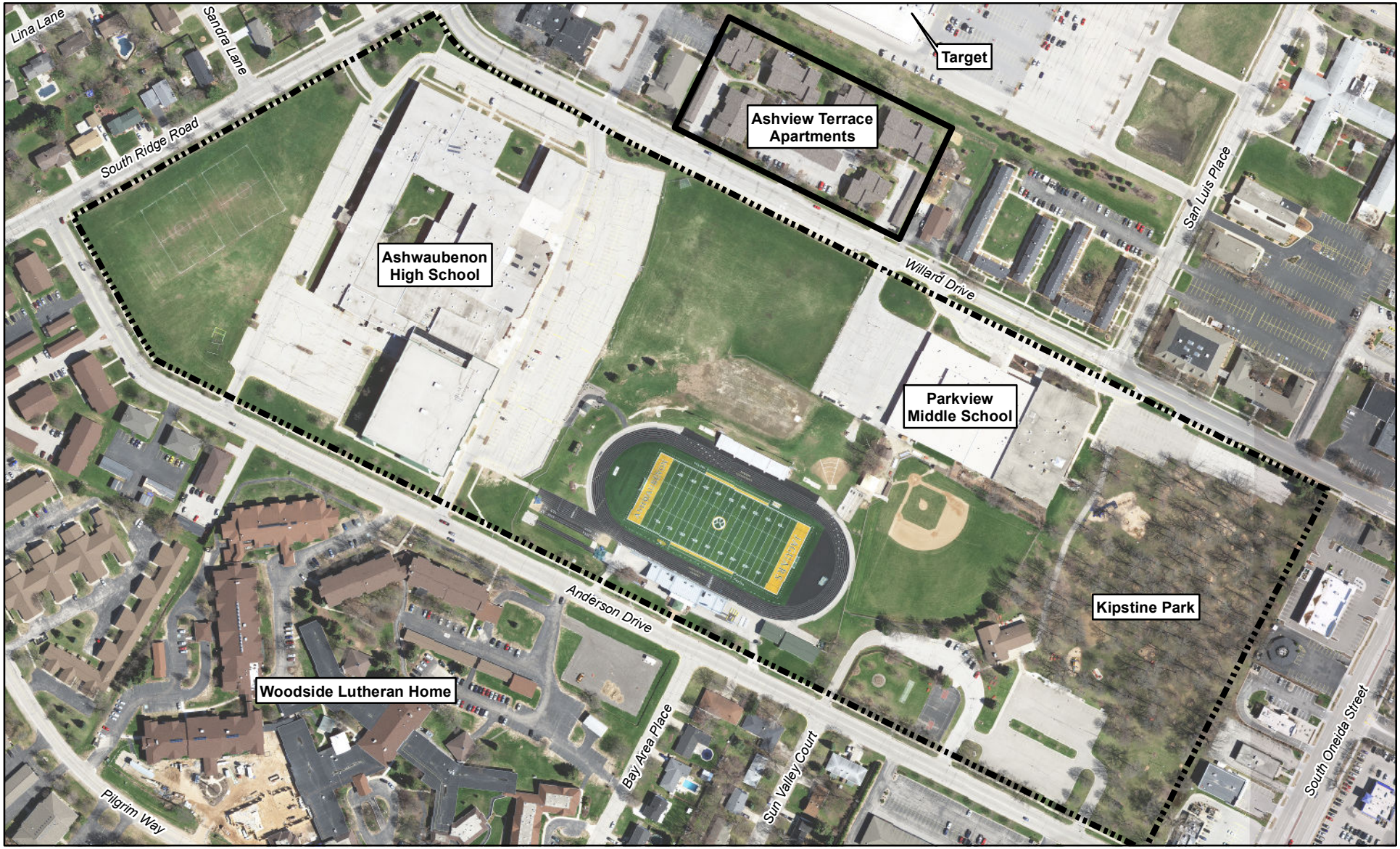
SITE LOCATION MAP

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note: 1:24k Topos courtesy of ESRI
(De Pere and Green Bay West Quadrangles)

Date:	10/04/2017	Project No.	7311150004
Drawn:	MJV	Figure:	1
Checked:	JMR		

amec foster wheeler



Legend

- Ashview Terrace Apartments Site
- Ashwaubenon High School / Kipstine Park Sites

SITE FEATURES MAP

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

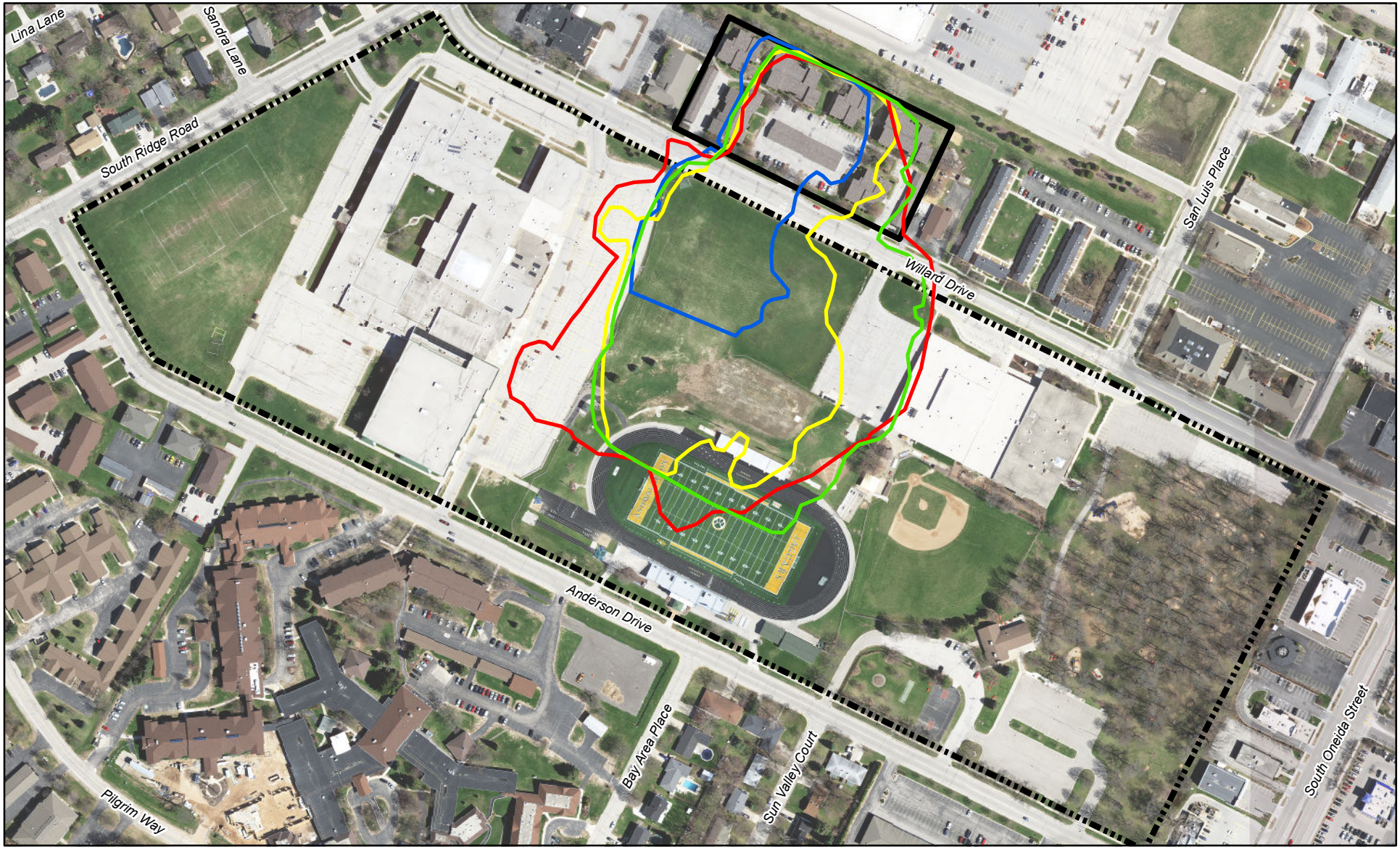
Note: Imagery courtesy of Brown County Planning & Land Services (May 2014)

Date: 10/04/2017	Project No. 7311150004	
Drawn: MJV	Figure: **2**	
Checked: JMR		

1:3,600 — 1 inch equals 300 feet

Approximate Scale in Feet: 0 — 300 — 600 — 900

amec foster wheeler



Legend

- Ashview Terrace Apartments Site
- Ashwaubenon High School / Kipstine Park Sites

Approximate Extent of Historic Borrow Pit by Year

- 1938
- 1954
- 1951
- 1960

HISTORIC BORROW PIT DIMENSIONS

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note: Imagery courtesy of Brown County Planning & Land Services (May 2014)

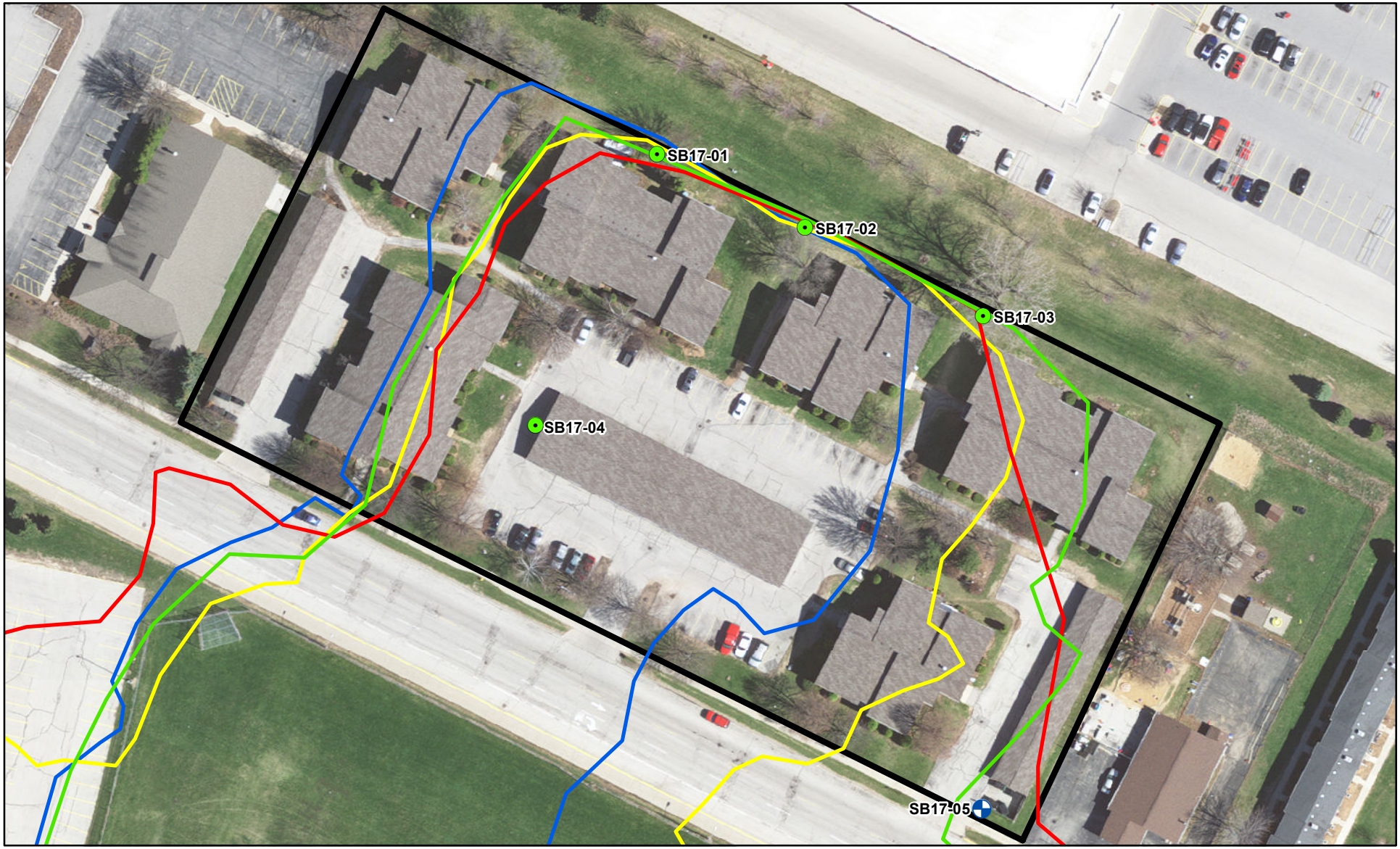
Date:	10/04/2017	Project No.	7311150004
Drawn:	MJV	Figure:	3
Checked:	JMR		

1:3,600 — 1 inch equals 300 feet

Approximate Scale in Feet

0 — 300 — 600 — 900

amec foster wheeler



Legend

- Approximate Site Boundary
- **Approximate Extent of Historic Borrow Pit by Year**
  - 1938
  - 1954
  - 1951
  - 1960
- 2017 Soil Boring / Temporary Well Location
- 2017 Soil Boring Location

SSI SOIL BORING AND WELL LOCATION MAP

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note: Imagery courtesy of Brown County Planning & Land Services (May 2014)

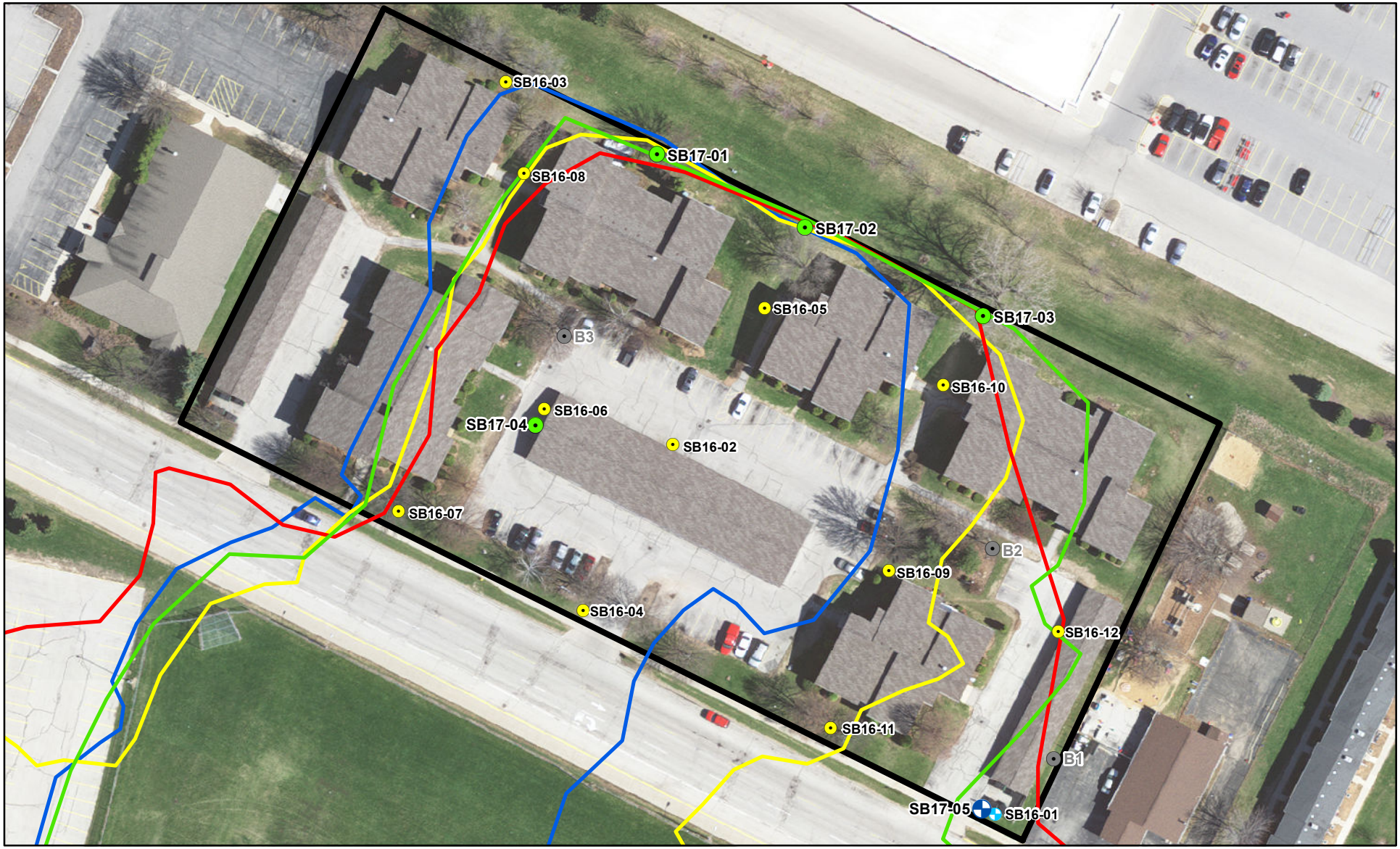
N W E S	Date: 11/15/2017	Project No. 7311150004
	Drawn: MJV	Figure: 4
	Checked: JMR	

amec foster wheeler

1:960 — 1 inch equals 80 feet

Approximate Scale in Feet

0 — 80 — 160 — 240



Legend

- Approximate Site Boundary
- **Approximate Extent of Historic Borrow Pit by Year**
  - 1938
  - 1954
  - 1951
  - 1960
- Historic Boring Locations
- 2017 Soil Boring / Temporary Well Location
- 2017 Soil Boring Location
- 2016 Soil Boring / Temporary Well Location
- 2016 Soil Boring Location

ALL SITE BORINGS AND WELL LOCATION MAP

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note: Imagery courtesy of Brown County Planning & Land Services (May 2014)

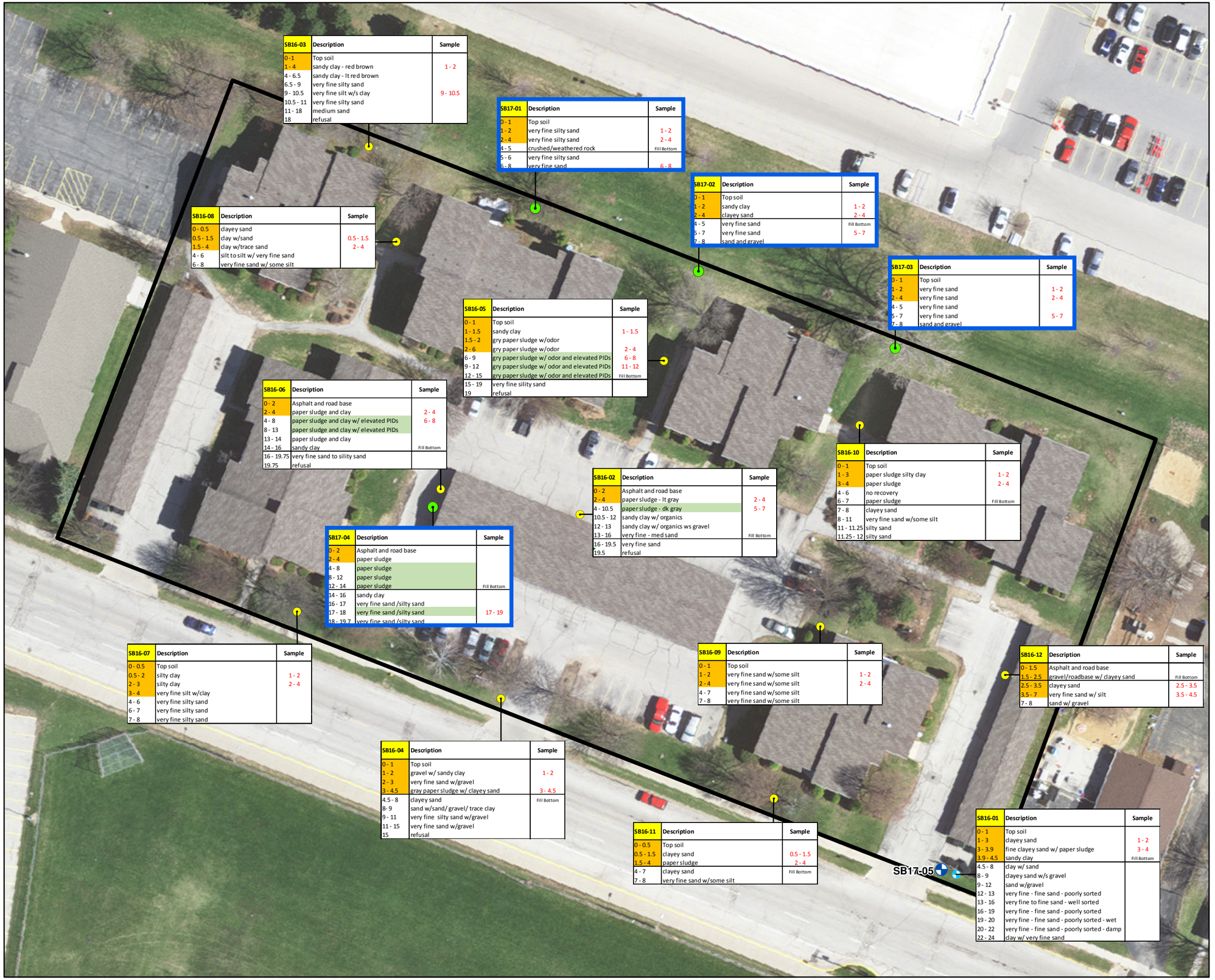
Date: 11/15/2017	Project No. 7311150004	
Drawn: MJV	Figure: **4a**	
Checked: JMR		

1:960 — 1 inch equals 80 feet

Approximate Scale in Feet

0 — 80 — 160 — 240

amec foster wheeler



SB16-03	Description	Sample
0 - 1	Top soil	
1 - 4	sandy clay - red brown	1 - 2
4 - 6.5	sandy clay - lt red brown	
6.5 - 9	very fine silty sand	
9 - 10.5	very fine silt w/s clay	9 - 10.5
10.5 - 11	very fine silty sand	
11 - 18	medium sand	
18	refusal	

SB17-01	Description	Sample
0 - 1	Top soil	
1 - 2	very fine silty sand	1 - 2
2 - 4	very fine silty sand	2 - 4
4 - 5	crushed/weathered rock	Fill Bottom
5 - 6	very fine silty sand	
6 - 8	very fine sand	6 - 8

SB17-02	Description	Sample
0 - 1	Top soil	
1 - 2	sandy clay	1 - 2
2 - 4	clayey sand	2 - 4
4 - 5	very fine sand	Fill Bottom
5 - 7	very fine sand	5 - 7
7 - 8	sand and gravel	

SB16-08	Description	Sample
0 - 0.5	clayey sand	
0.5 - 1.5	clay w/sand	0.5 - 1.5
1.5 - 4	clay w/trace sand	2 - 4
4 - 6	silt to silt w/ very fine sand	
6 - 8	very fine sand w/ some silt	

SB17-03	Description	Sample
0 - 1	Top soil	
1 - 2	very fine sand	1 - 2
2 - 4	very fine sand	2 - 4
4 - 5	very fine sand	
5 - 7	very fine sand	5 - 7
7 - 8	sand and gravel	

SB16-05	Description	Sample
0 - 1	Top soil	
1 - 1.5	sandy clay	1 - 1.5
1.5 - 2	gry paper sludge w/odor	
2 - 6	gry paper sludge w/odor	2 - 4
6 - 9	gry paper sludge w/ odor and elevated PIDs	6 - 8
9 - 12	gry paper sludge w/ odor and elevated PIDs	11 - 12
12 - 15	gry paper sludge w/ odor and elevated PIDs	Fill Bottom
15 - 19	very fine silty sand	
19	refusal	

SB16-06	Description	Sample
0 - 2	Asphalt and road base	
2 - 4	paper sludge and clay	2 - 4
4 - 8	paper sludge and clay w/ elevated PIDs	6 - 8
8 - 13	paper sludge and clay w/ elevated PIDs	
13 - 14	paper sludge and clay	
14 - 16	sandy clay	Fill Bottom
16 - 19.75	very fine sand to silty sand	
19.75	refusal	

SB16-02	Description	Sample
0 - 2	Asphalt and road base	
2 - 4	paper sludge - lt gray	2 - 4
4 - 10.5	paper sludge - dk gray	5 - 7
10.5 - 12	sandy clay w/ organics	
12 - 13	sandy clay w/ organics ws gravel	
13 - 16	very fine - med sand	Fill Bottom
16 - 19.5	very fine sand	
19.5	refusal	

SB16-10	Description	Sample
0 - 1	Top soil	
1 - 3	paper sludge silty clay	1 - 2
3 - 4	paper sludge	2 - 4
4 - 6	no recovery	
6 - 7	paper sludge	Fill Bottom
7 - 8	clayey sand	
8 - 11	very fine sand w/some silt	
11 - 11.25	silty sand	
11.25 - 12	silty sand	

SB17-04	Description	Sample
0 - 2	Asphalt and road base	
2 - 4	paper sludge	
4 - 8	paper sludge	
8 - 12	paper sludge	
12 - 14	paper sludge	Fill Bottom
14 - 16	sandy clay	
16 - 17	very fine sand /silty sand	
17 - 18	very fine sand /silty sand	17 - 19
18 - 19.7	very fine sand /silty sand	

SB16-07	Description	Sample
0 - 0.5	Top soil	
0.5 - 2	silty clay	1 - 2
2 - 3	silty clay	2 - 4
3 - 4	very fine silt w/clay	
4 - 6	very fine silty sand	
6 - 7	very fine silty sand	
7 - 8	very fine silty sand	

SB16-09	Description	Sample
0 - 1	Top soil	
1 - 2	very fine sand w/some silt	1 - 2
2 - 4	very fine sand w/some silt	2 - 4
4 - 7	very fine sand w/some silt	
7 - 8	very fine sand w/some silt	

SB16-12	Description	Sample
0 - 1.5	Asphalt and road base	
1.5 - 2.5	gravel/roadbase w/ clayey sand	Fill Bottom
2.5 - 3.5	clayey sand	2.5 - 3.5
3.5 - 7	very fine sand w/ silt	3.5 - 4.5
7 - 8	sand w/ gravel	

SB16-04	Description	Sample
0 - 1	Top soil	
1 - 2	gravel w/ sandy clay	1 - 2
2 - 3	very fine sand w/gravel	
3 - 4.5	gray paper sludge w/ clayey sand	3 - 4.5
4.5 - 8	clayey sand	Fill Bottom
8- 9	sand w/sand/ gravel/ trace clay	
9 - 11	very fine silty sand w/gravel	
11 - 15	very fine sand w/gravel	
15	refusal	

SB16-11	Description	Sample
0 - 0.5	Top soil	
0.5 - 1.5	clayey sand	0.5 - 1.5
1.5 - 4	paper sludge	2 - 4
4 - 7	clayey sand	Fill Bottom
7 - 8	very fine sand w/some silt	

SB16-01	Description	Sample
0 - 1	Top soil	
1 - 3	clayey sand	1 - 2
3 - 3.9	fine clayey sand w/ paper sludge	3 - 4
3.9 - 4.5	sandy clay	Fill Bottom
4.5 - 8	clay w/ sand	
8 - 9	clayey sand w/s gravel	
9 - 12	sand w/gravel	
12 - 13	very fine - fine sand - poorly sorted	
13 - 16	very fine to fine sand - well sorted	
16 - 19	very fine - fine sand - poorly sorted	
19 - 20	very fine - fine sand - poorly sorted - wet	
20 - 22	very fine - fine sand - poorly sorted - damp	
22 - 24	clay w/ very fine sand	

SB17-05

1:600 1 inch equals 50 feet

Approximate Scale in Feet

0 50 100

Legend

- 2017 Soil Boring / Temporary Well Location
- 2017 Soil Boring Location
- 2016 Soil Boring / Temporary Well Location
- 2016 Soil Boring Location
- Approximate Site Boundary
- Interval or partial interval within 4 ft of ground surface
- Interval with "Elevated" PID Readings
- 1-2 Analytical Sample Collected
- Contact of Fill Bottom

BLUE highlighted results are new for 2017

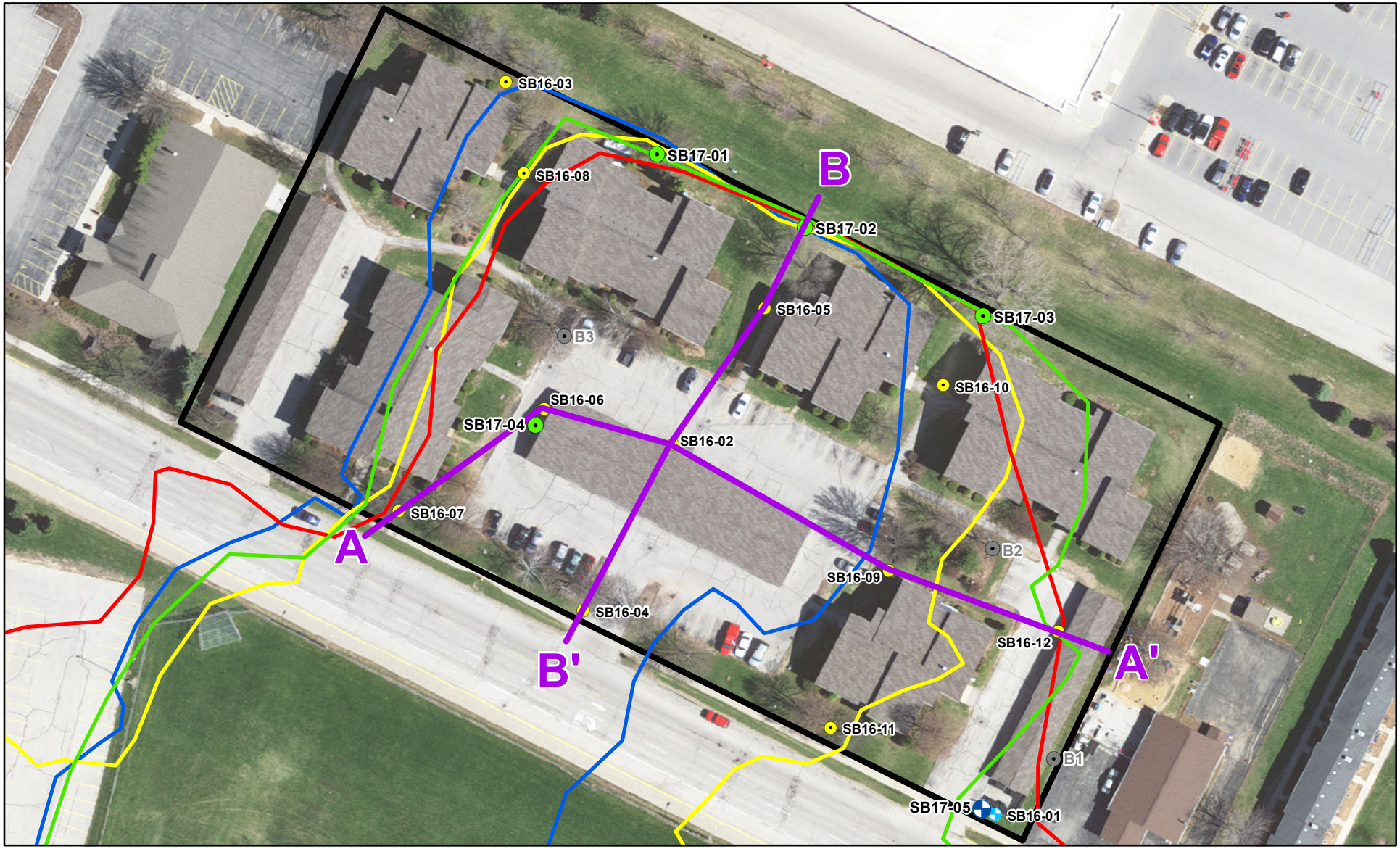
SOIL BORING STRATIGRAPHY SUMMARY

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note: Imagery courtesy of Brown County Planning & Land Services (May 2014)

Date: 11/17/2017 Project No. 7311150004
Drawn: MJV Figure: 5
Checked: JMR

amec foster wheeler



Legend

- Approximate Site Boundary
- **Approximate Extent of Historic Borrow Pit by Year**
  - 1938
  - 1954
  - 1951
  - 1960
- Historic Boring Locations
- 2017 Soil Boring / Temporary Well Location
- 2017 Soil Boring Location
- 2016 Soil Boring / Temporary Well Location
- 2016 Soil Boring Location
- Cross Section Location

CROSS SECTION LOCATION MAP

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note: Imagery courtesy of Brown County Planning & Land Services (May 2014)

N W E S	Date: 11/15/2017	Project No. 7311150004	
	Drawn: MJV	Figure: 6	
	Checked: JMR		

amec foster wheeler

1:960 — 1 inch equals 80 feet

Approximate Scale in Feet

0 80 160 240

A

A'

SB16-07

SB16-06

SB16-02

SB16-09

SB16-12

Ground Surface

TOPSOIL

SANDY CLAY

SB16-07 (1-2)

SILTY CLAY

SB16-07 (2-4)

SILTY SAND

PAPER SLUDGE

ASPHALT & ROAD BASE

SB16-06 (2-4)

SB16-06 (6-8)

PAPER SLUDGE

SB16-02 (2-4')

SB16-02 (5-7')

PAPER SLUDGE

SANDY CLAY (FILL)

SAND (FILL)

SILTY SAND

SAND

SANDY CLAY (FILL)

SAND (FILL)

SILTY SAND

SAND

ASPHALT & ROAD BASE

TOPSOIL

SB16-09 (1-2)

SB16-09 (2-4)

SAND

CLAY with SAND (FILL)

SB16-12 (2.5-3.5)

SB16-12 (3.5-4.5)

SAND with SILT

SAND with GRAVEL

Approximate Elevation (feet below ground surface)

642' 640' 638' 636' 634' 632' 630' 628' 626' 624' 622' 620'

0' 30' 60' 90' 120' 150' 180' 210' 240' 270' 300' 330' 360' 390' 420' 450'

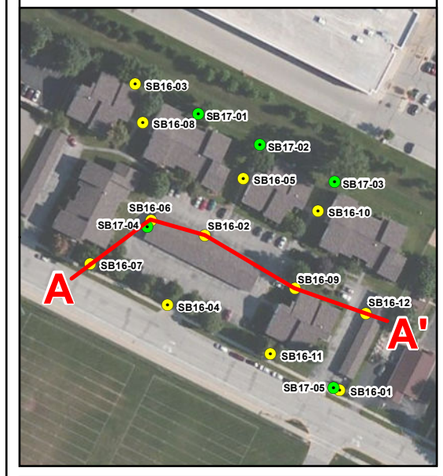
Distance (feet)

SCALE AS SHOWN
Vertical Exaggeration - 15x

Legend

- Soil Sample
- PID Response (ppm)
- Inferred Lithologic Contact
- Topsoil
- Asphalt and Road Base
- Fill
- Fill Containing Paper Sludge
- Sandy Clay / Clay with Sand
- Silty Clay
- Sand
- Silty Sand / Sand with Silt
- Sand with Gravel

Notes:
1. Detailed boring logs in Appendix A
2. Soil samples collected June 21-22, 2016.
3. 15x vertical exaggeration for scale
4. ppm - Parts per million



CROSS SECTION A-A'

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note:

Date:	10/04/2017	Project No.	7311150004
Drawn:	MJV	Figure:	6a
Checked:	JMR		

amec foster wheeler

B

B'

SB17-02

SB16-05

SB16-02

SB16-04

TOPSOIL

SANDY CLAY (FILL)

TOPSOIL

SANDY CLAY (FILL)

Ground Surface

TOPSOIL

SANDY CLAY and GRAVEL (FILL)

SB17-02-01-02

SB16-05 (1-1.5')

ASPHALT & ROAD BASE

ASPHALT & ROAD BASE

SB17-02-02-04

CLAYEY SAND (FILL)

SB16-04 (1-2')

SAND

SB16-02 (2-4')

SAND (FILL)

SB17-02-05-07

SB16-05 (2-4')

SB16-04 (3-4.5')

SAND and GRAVEL

PAPER SLUDGE

SB16-05 (6-8')

PAPER SLUDGE

SB16-02 (5-7')

PAPER SLUDGE

CLAYEY SAND

SB16-05 (11-12')

SAND

SILTY SAND

SANDY CLAY (FILL)

SANDY CLAY (FILL)

SAND (FILL)

SAND (FILL)

SILTY SAND

SAND

SAND

Approximate Elevation (feet below ground surface)

644' 642' 640' 638' 636' 634' 632' 630' 628' 626' 624' 622' 620'

0' 20' 40' 60' 80' 100' 120' 140' 160' 180' 200' 220' 240' 260' 280'

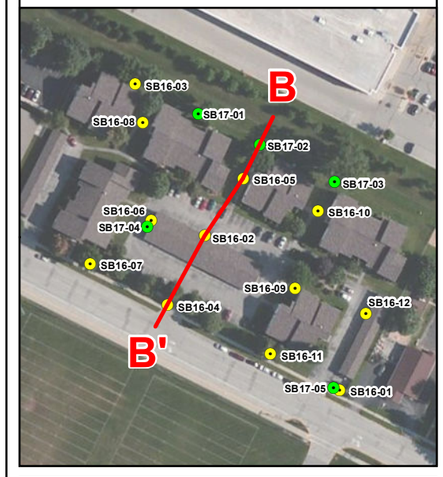
Distance (feet)

SCALE AS SHOWN
Vertical Exaggeration - 10x

Legend

- Soil Sample
- PID Response (ppm)
- Inferred Lithologic Contact
- Topsoil
- Asphalt and Road Base
- Fill
- Fill Containing Paper Sludge
- Clayey Sand / Sandy Clay
- Sand
- Silty Sand
- Sand and Gravel

Notes:
1. Detailed boring logs in Appendix A
2. Soil samples collected June 21-22, 2016 and Augst 14, 2017.
3. 10x vertical exaggeration for scale
4. ppm - Parts per million



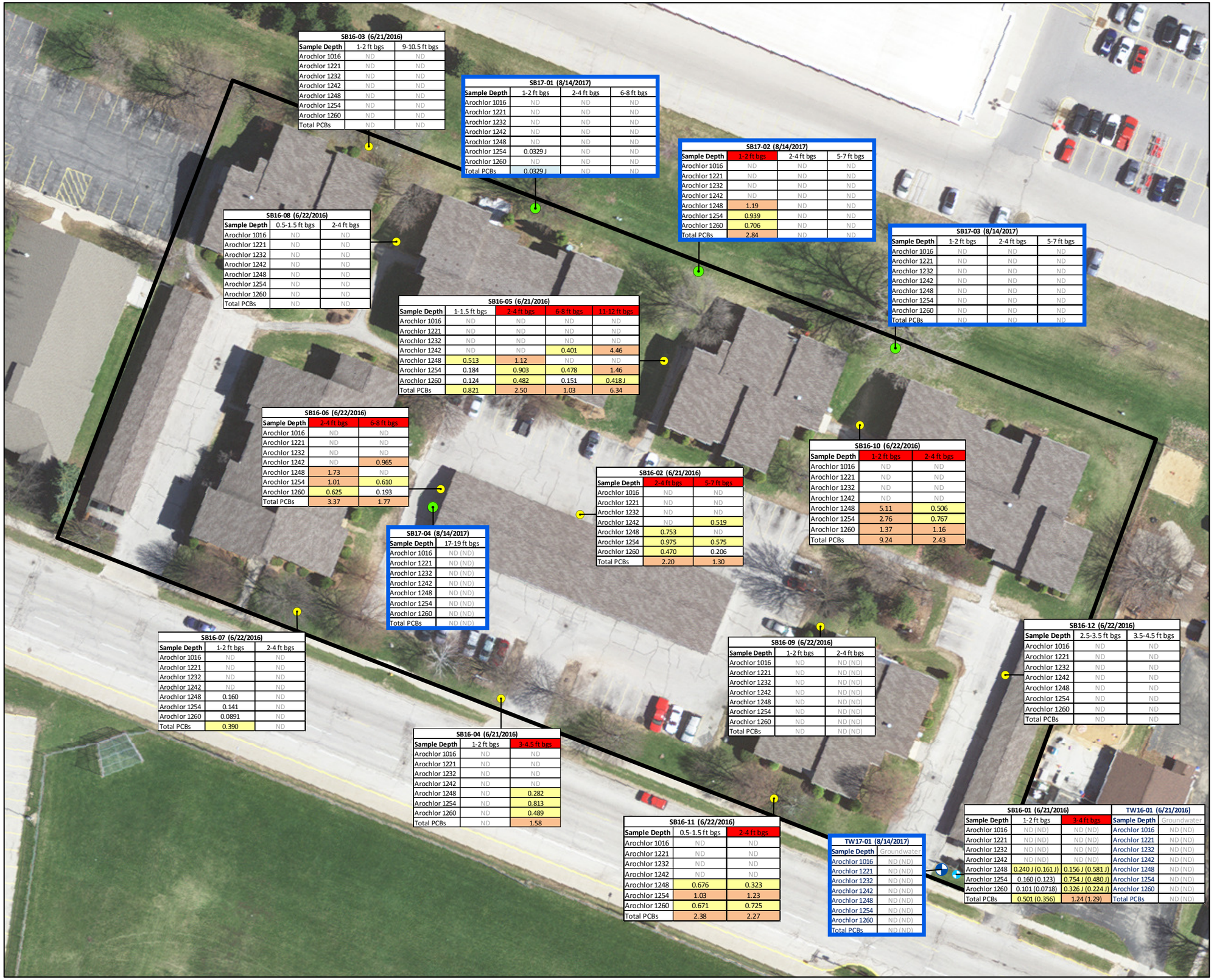
CROSS SECTION B-B'

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note:

Date:	11/17/2017	Project No.	7311150004
Drawn:	MJV	Figure:	6b
Checked:	JMR		

amec foster wheeler



SB16-03 (6/21/2016)

Sample Depth	1-2 ft bgs	9-10.5 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	ND
Arochlor 1248	ND	ND
Arochlor 1254	ND	ND
Arochlor 1260	ND	ND
Total PCBs	ND	ND

SB17-01 (8/14/2017)

Sample Depth	1-2 ft bgs	2-4 ft bgs	6-8 ft bgs
Arochlor 1016	ND	ND	ND
Arochlor 1221	ND	ND	ND
Arochlor 1232	ND	ND	ND
Arochlor 1242	ND	ND	ND
Arochlor 1248	ND	ND	ND
Arochlor 1254	0.0329 J	ND	ND
Arochlor 1260	ND	ND	ND
Total PCBs	0.0329 J	ND	ND

SB17-02 (8/14/2017)

Sample Depth	1-2 ft bgs	2-4 ft bgs	5-7 ft bgs
Arochlor 1016	ND	ND	ND
Arochlor 1221	ND	ND	ND
Arochlor 1232	ND	ND	ND
Arochlor 1242	ND	ND	ND
Arochlor 1248	1.19	ND	ND
Arochlor 1254	0.939	ND	ND
Arochlor 1260	0.706	ND	ND
Total PCBs	2.84	ND	ND

SB17-03 (8/14/2017)

Sample Depth	1-2 ft bgs	2-4 ft bgs	5-7 ft bgs
Arochlor 1016	ND	ND	ND
Arochlor 1221	ND	ND	ND
Arochlor 1232	ND	ND	ND
Arochlor 1242	ND	ND	ND
Arochlor 1248	ND	ND	ND
Arochlor 1254	ND	ND	ND
Arochlor 1260	ND	ND	ND
Total PCBs	ND	ND	ND

SB16-08 (6/22/2016)

Sample Depth	0.5-1.5 ft bgs	2-4 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	ND
Arochlor 1248	ND	ND
Arochlor 1254	ND	ND
Arochlor 1260	ND	ND
Total PCBs	ND	ND

SB16-05 (6/21/2016)

Sample Depth	1-1.5 ft bgs	2-4 ft bgs	6-8 ft bgs	11-12 ft bgs
Arochlor 1016	ND	ND	ND	ND
Arochlor 1221	ND	ND	ND	ND
Arochlor 1232	ND	ND	ND	ND
Arochlor 1242	ND	ND	0.401	4.46
Arochlor 1248	0.513	1.12	ND	ND
Arochlor 1254	0.184	0.903	0.478	1.46
Arochlor 1260	0.124	0.482	0.151	0.418 J
Total PCBs	0.821	2.50	1.03	6.34

SB16-06 (6/22/2016)

Sample Depth	2-4 ft bgs	6-8 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	0.965
Arochlor 1248	1.73	ND
Arochlor 1254	1.01	0.610
Arochlor 1260	0.625	0.193
Total PCBs	3.37	1.77

SB16-02 (6/21/2016)

Sample Depth	2-4 ft bgs	5-7 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	0.519
Arochlor 1248	0.753	ND
Arochlor 1254	0.975	0.575
Arochlor 1260	0.470	0.206
Total PCBs	2.20	1.30

SB16-10 (6/22/2016)

Sample Depth	1-2 ft bgs	2-4 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	ND
Arochlor 1248	5.11	0.506
Arochlor 1254	2.76	0.767
Arochlor 1260	1.37	1.16
Total PCBs	9.24	2.43

SB17-04 (8/14/2017)

Sample Depth	17-19 ft bgs
Arochlor 1016	ND (ND)
Arochlor 1221	ND (ND)
Arochlor 1232	ND (ND)
Arochlor 1242	ND (ND)
Arochlor 1248	ND (ND)
Arochlor 1254	ND (ND)
Arochlor 1260	ND (ND)
Total PCBs	ND (ND)

SB16-09 (6/22/2016)

Sample Depth	1-2 ft bgs	2-4 ft bgs
Arochlor 1016	ND	ND (ND)
Arochlor 1221	ND	ND (ND)
Arochlor 1232	ND	ND (ND)
Arochlor 1242	ND	ND (ND)
Arochlor 1248	ND	ND (ND)
Arochlor 1254	ND	ND (ND)
Arochlor 1260	ND	ND (ND)
Total PCBs	ND	ND (ND)

SB16-12 (6/22/2016)

Sample Depth	2.5-3.5 ft bgs	3.5-4.5 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	ND
Arochlor 1248	ND	ND
Arochlor 1254	ND	ND
Arochlor 1260	ND	ND
Total PCBs	ND	ND

SB16-07 (6/22/2016)

Sample Depth	1-2 ft bgs	2-4 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	ND
Arochlor 1248	0.160	ND
Arochlor 1254	0.141	ND
Arochlor 1260	0.0891	ND
Total PCBs	0.390	ND

SB16-04 (6/21/2016)

Sample Depth	1-2 ft bgs	3-4.5 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	ND
Arochlor 1248	ND	0.282
Arochlor 1254	ND	0.813
Arochlor 1260	ND	0.489
Total PCBs	ND	1.58

SB16-11 (6/22/2016)

Sample Depth	0.5-1.5 ft bgs	2-4 ft bgs
Arochlor 1016	ND	ND
Arochlor 1221	ND	ND
Arochlor 1232	ND	ND
Arochlor 1242	ND	ND
Arochlor 1248	0.676	0.323
Arochlor 1254	1.03	1.23
Arochlor 1260	0.671	0.725
Total PCBs	2.38	2.27

TW17-01 (8/14/2017)

Sample Depth	Groundwater
Arochlor 1016	ND (ND)
Arochlor 1221	ND (ND)
Arochlor 1232	ND (ND)
Arochlor 1242	ND (ND)
Arochlor 1248	ND (ND)
Arochlor 1254	ND (ND)
Arochlor 1260	ND (ND)
Total PCBs	ND (ND)

SB16-01 (6/21/2016)

Sample Depth	1-2 ft bgs	3-4 ft bgs
Arochlor 1016	ND (ND)	ND (ND)
Arochlor 1221	ND (ND)	ND (ND)
Arochlor 1232	ND (ND)	ND (ND)
Arochlor 1242	ND (ND)	ND (ND)
Arochlor 1248	0.240 J (0.161 J)	0.156 J (0.581 J)
Arochlor 1254	0.160 (0.123)	0.754 J (0.480 J)
Arochlor 1260	0.101 (0.0718)	0.326 J (0.224 J)
Total PCBs	0.501 (0.356)	1.24 (1.29)

TW16-01 (6/21/2016)

Sample Depth	Groundwater
Arochlor 1016	ND (ND)
Arochlor 1221	ND (ND)
Arochlor 1232	ND (ND)
Arochlor 1242	ND (ND)
Arochlor 1248	ND (ND)
Arochlor 1254	ND (ND)
Arochlor 1260	ND (ND)
Total PCBs	ND (ND)

1:600 — 1 inch equals 50 feet

Approximate Scale in Feet

0 — 50 — 100

Legend

- 2017 Soil Boring / Temporary Well Location
- 2017 Soil Boring Location
- 2016 Soil Boring / Temporary Well Location
- 2016 Soil Boring Location
- Approximate Site Boundary
- Exceedance of Non-Industrial RCL
- Exceedance of Industrial RCL
- Exceedance of Soil to Groundwater RCL
- Sampling Interval Containing Paper Sludge

Soil results in milligrams per kilogram
Groundwater results in micrograms per liter
Duplicate sample results in parenthesis
J = Estimated Concentration
ND = Paramter Not Detected
BLUE highlighted results are new for 2017

ANALYTICAL RESULTS PCBs

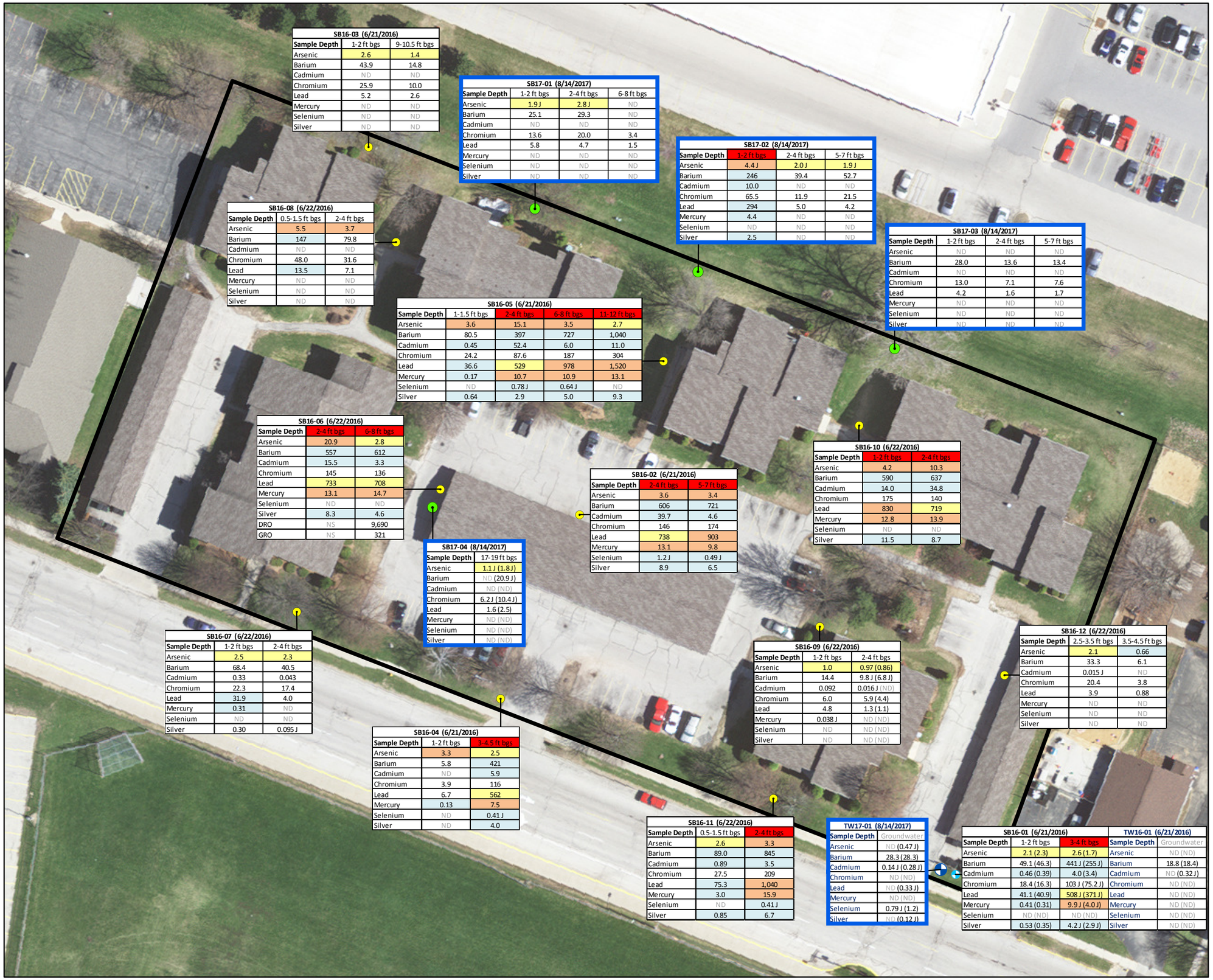
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note: Imagery courtesy of Brown County Planning & Land Services (May 2014)

N W E S

Date: 11/17/2017 | Project No. 7311150004
Drawn: MJV | Figure: 7
Checked: JMR

amec foster wheeler



SB16-03 (6/21/2016)		
Sample Depth	1-2 ft bgs	9-10.5 ft bgs
Arsenic	2.6	1.4
Barium	43.9	14.8
Cadmium	ND	ND
Chromium	25.9	10.0
Lead	5.2	2.6
Mercury	ND	ND
Selenium	ND	ND
Silver	ND	ND

SB17-01 (8/14/2017)			
Sample Depth	1-2 ft bgs	2-4 ft bgs	6-8 ft bgs
Arsenic	1.9 J	2.8 J	ND
Barium	25.1	29.3	ND
Cadmium	ND	ND	ND
Chromium	13.6	20.0	3.4
Lead	5.8	4.7	1.5
Mercury	ND	ND	ND
Selenium	ND	ND	ND
Silver	ND	ND	ND

SB17-02 (8/14/2017)			
Sample Depth	1-2 ft bgs	2-4 ft bgs	5-7 ft bgs
Arsenic	4.4 J	2.0 J	1.9 J
Barium	246	39.4	52.7
Cadmium	10.0	ND	ND
Chromium	65.5	11.9	21.5
Lead	294	5.0	4.2
Mercury	4.4	ND	ND
Selenium	ND	ND	ND
Silver	2.5	ND	ND

SB17-03 (8/14/2017)			
Sample Depth	1-2 ft bgs	2-4 ft bgs	5-7 ft bgs
Arsenic	ND	ND	ND
Barium	28.0	13.6	13.4
Cadmium	ND	ND	ND
Chromium	13.0	7.1	7.6
Lead	4.2	1.6	1.7
Mercury	ND	ND	ND
Selenium	ND	ND	ND
Silver	ND	ND	ND

SB16-08 (6/22/2016)		
Sample Depth	0.5-1.5 ft bgs	2-4 ft bgs
Arsenic	5.5	3.7
Barium	147	79.8
Cadmium	ND	ND
Chromium	48.0	31.6
Lead	13.5	7.1
Mercury	ND	ND
Selenium	ND	ND
Silver	ND	ND

SB16-05 (6/21/2016)				
Sample Depth	1-1.5 ft bgs	2-4 ft bgs	6-8 ft bgs	11-12 ft bgs
Arsenic	3.6	15.1	3.5	2.7
Barium	80.5	397	727	1,040
Cadmium	0.45	52.4	6.0	11.0
Chromium	24.2	87.6	187	304
Lead	36.6	529	978	1,520
Mercury	0.17	10.7	10.9	13.1
Selenium	ND	0.78 J	0.64 J	ND
Silver	0.64	2.9	5.0	9.3

SB16-06 (6/22/2016)		
Sample Depth	2-4 ft bgs	6-8 ft bgs
Arsenic	20.9	2.8
Barium	557	612
Cadmium	15.5	3.3
Chromium	145	136
Lead	733	708
Mercury	13.1	14.7
Selenium	ND	ND
Silver	8.3	4.6
DRO	NS	9,690
GRO	NS	321

SB16-02 (6/21/2016)		
Sample Depth	2-4 ft bgs	5-7 ft bgs
Arsenic	3.6	3.4
Barium	606	721
Cadmium	39.7	4.6
Chromium	146	174
Lead	738	903
Mercury	13.1	9.8
Selenium	1.2 J	0.49 J
Silver	8.9	6.5

SB16-10 (6/22/2016)		
Sample Depth	1-2 ft bgs	2-4 ft bgs
Arsenic	4.2	10.3
Barium	590	637
Cadmium	14.0	34.8
Chromium	175	140
Lead	830	719
Mercury	12.8	13.9
Selenium	ND	ND
Silver	11.5	8.7

SB17-04 (8/14/2017)	
Sample Depth	17-19 ft bgs
Arsenic	1.1 J (1.8 J)
Barium	ND (20.9 J)
Cadmium	ND (ND)
Chromium	6.2 J (10.4 J)
Lead	1.6 (2.5)
Mercury	ND (ND)
Selenium	ND (ND)
Silver	ND (ND)

SB16-07 (6/22/2016)		
Sample Depth	1-2 ft bgs	2-4 ft bgs
Arsenic	2.5	2.3
Barium	68.4	40.5
Cadmium	0.33	0.043
Chromium	22.3	17.4
Lead	31.9	4.0
Mercury	0.31	ND
Selenium	ND	ND
Silver	0.30	0.095 J

SB16-09 (6/22/2016)		
Sample Depth	1-2 ft bgs	2-4 ft bgs
Arsenic	1.0	0.97 (0.86)
Barium	14.4	9.8 J (6.8 J)
Cadmium	0.092	0.016 J (ND)
Chromium	6.0	5.9 (4.4)
Lead	4.8	1.3 (1.1)
Mercury	0.038 J	ND (ND)
Selenium	ND	ND (ND)
Silver	ND	ND (ND)

SB16-12 (6/22/2016)		
Sample Depth	2.5-3.5 ft bgs	3.5-4.5 ft bgs
Arsenic	2.1	0.66
Barium	33.3	6.1
Cadmium	0.015 J	ND
Chromium	20.4	3.8
Lead	3.9	0.88
Mercury	ND	ND
Selenium	ND	ND
Silver	ND	ND

SB16-04 (6/21/2016)		
Sample Depth	1-2 ft bgs	3-4.5 ft bgs
Arsenic	3.3	2.5
Barium	5.8	421
Cadmium	ND	5.9
Chromium	3.9	116
Lead	6.7	562
Mercury	0.13	7.5
Selenium	ND	0.41 J
Silver	ND	4.0

SB16-11 (6/22/2016)		
Sample Depth	0.5-1.5 ft bgs	2-4 ft bgs
Arsenic	2.6	3.3
Barium	89.0	845
Cadmium	0.89	3.5
Chromium	27.5	209
Lead	75.3	1,040
Mercury	3.0	15.9
Selenium	ND	0.41 J
Silver	0.85	6.7

TW17-01 (8/14/2017)	
Sample Depth	Groundwater
Arsenic	ND (0.47 J)
Barium	28.3 (28.3)
Cadmium	0.14 J (0.28 J)
Chromium	ND (ND)
Lead	ND (0.33 J)
Mercury	ND (ND)
Selenium	0.79 J (1.2)
Silver	ND (0.12 J)

SB16-01 (6/21/2016)			TW16-01 (6/21/2016)	
Sample Depth	1-2 ft bgs	3-4 ft bgs	Sample Depth	Groundwater
Arsenic	2.1 (2.3)	2.6 (1.7)	Arsenic	ND (ND)
Barium	49.1 (46.3)	441 J (255 J)	Barium	18.8 (18.4)
Cadmium	0.46 (0.39)	4.0 (3.4)	Cadmium	ND (0.32 J)
Chromium	18.4 (16.3)	103 J (75.2 J)	Chromium	ND (ND)
Lead	41.1 (40.9)	508 J (371 J)	Lead	ND (ND)
Mercury	0.41 (0.31)	9.9 J (4.0 J)	Mercury	ND (ND)
Selenium	ND (ND)	ND (ND)	Selenium	ND (ND)
Silver	0.53 (0.35)	4.2 J (2.9 J)	Silver	ND (ND)

1:600 — 1 inch equals 50 feet

Approximate Scale in Feet

0 — 50 — 100

Legend

- 2017 Soil Boring / Temporary Well Location
- 2017 Soil Boring Location
- 2016 Soil Boring / Temporary Well Location
- 2016 Soil Boring Location
- Approximate Site Boundary
- Exceedance of Non-Industrial RCL
- Exceedance of Industrial RCL
- Exceedance of Soil to Groundwater RCL
- Sampling Interval Containing Paper Sludge

Soil results in milligrams per kilogram
Groundwater results in micrograms per liter
Duplicate sample results in parenthesis
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
J = Estimated Concentration
ND = Paramter Not Detected

BLUE highlighted results are new for 2017

ANALYTICAL RESULTS METALs

Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, Brown County, Wisconsin

Note: Imagery courtesy of Brown County Planning & Land Services (May 2014)

Date: 11/17/2017 | Project No. 7311150004
Drawn: MJV | Figure: 8
Checked: JMR

amec foster wheeler

APPENDICES

APPENDIX A

Soil Boring and Sealing Records

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
BROWN	_ _ _ _ _ _ _	

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 988 - 1020 WILLARD DR.

Well City, Village or Town	Well ZIP Code
ASHWAUBENON	
Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
--	_ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: ASHVIEW TERRACE APARTMENTS
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy):
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.25	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	8	4	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies, Inc.		08/15/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262) 470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Daniel Bendorf	8/16/17

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
BROWN	_ _ _ _ _ _ _	

Latitude / Longitude (see instructions) _____ N _____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 988 - 1020 WILLARD DR.

Well City, Village or Town: ASHWAUBENON | Well ZIP Code:

Subdivision Name: | Lot #:

Reason for Removal from Service: -- | WI Unique Well # of Replacement Well: _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: ASHVIEW TERRACE APARTMENTS

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy):

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.25	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? | Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	8	1/2	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies, Inc.		08/15/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262) 470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Daniel Bendorf	8/16/17

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
BROWN	_ _ _ _ _ _ _	

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 988 - 1020 WILLARD DR.

Well City, Village or Town	Well ZIP Code
ASHWAUBENON	

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
--	_ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: ASHVIEW TERRACE APARTMENTS
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy):
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.25	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, ~~Sacks~~ Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	8	1/2	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies, Inc.		08/15/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262) 470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Daniel Bendorf	8/16/17

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
BROWN		

Latitude / Longitude (see instructions) _____ N _____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 988 - 1020 WILLARD DR.

Well City, Village or Town	Well ZIP Code
ASHWAUBENON	

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
--	

2. Facility / Owner Information

Facility Name: ASHVIEW TERRACE APARTMENTS

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy):

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
24	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.25	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	24	1 ½	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies, Inc.		08/15/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262) 470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Daniel Bendorf	8/16/17

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
BROWN		

Latitude / Longitude (see instructions) _____ N _____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 988 - 1020 WILLARD DR.

Well City, Village or Town: ASHWAUBENON | Well ZIP Code:

Subdivision Name: | Lot #:

Reason for Removal from Service: -- | WI Unique Well # of Replacement Well: _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: ASHVIEW TERRACE APARTMENTS

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy):

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.75	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.25	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	19.75	1	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies, Inc.		08/15/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262) 470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Daniel Bendorf	8/16/17

DNR Use Only

Date Received	Noted By

Comments:

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER:	PROJECT NAME: Ashwaubenon-GP		
BORING NUMBER: SB17-01	COORDINATES:	DATE: 8/14/17	
GROUND SURFACE ELEVATION: 643.27	GROUNDWATER DEPTH: DATE: TIME:	DATE STARTED: 8/14/17	
BORING TOTAL DEPTH: 8'	DRILLING CONTRACTOR:	DATE COMPLETED: 8/14/17	
ENGINEER/GEOLOGIST: CV	DRILLING METHOD:	PAGE: 1 OF: 1	

Depth (ft bgs)	Sample Interval & Number	Blow Counts per ( )	Sample Recovery (ft or %)	PID/FID Reading	DESCRIPTION: Major and secondary lithology, Munsell color, grain size, gradation, angularity plasticity, density (or firmness), moisture content, soil structure (fractures, odor, staining, etc.), geologic origin (till, alluvium, etc.)	USCS Symbol	Well Construction	Comments
0		N/A	100%	Ø	0-1 topsoil, dk brown clayey sand, friable, dry			
1	SB17-01-01-02 @1325			Ø	1-2 Silty Sand, dry, VF, red/brown (5YR-4/6)	SM		
2					2-4 SAA, to poorly sorted VF sand, lt red-tan, dry, loose, no odor	SM-SP		
3	SB17-01-02-04 @1330			Ø	→ 2" zone of dk red clayey sand @ 4'			
4			75%		crushed/weathered rock, tan, some clayey sand dry no odor			
5				Ø	5-6 silty sand, damp, red/brown/tan, VF, no odor	SM		
6								
7	SB17-01-06-08 @1340			Ø	6-8 poorly sorted VF sand damp-dry, tan-lt orange, no odor, loose	SP		
8								

NOTES

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 731150004	PROJECT NAME: Ashwaubenon-GP		
BORING NUMBER: SB17-02	COORDINATES:	DATE: 8/14/17	
GROUND SURFACE ELEVATION: 643.08	GROUNDWATER DEPTH: N/A DATE: TIME:	DATE STARTED: 8/14/17	
BORING TOTAL DEPTH: 8'	DRILLING CONTRACTOR: PT	DATE COMPLETED: 8/14/17	
ENGINEER/GEOLOGIST: CDV	DRILLING METHOD: DPT (all terrain)	PAGE: 1 OF: 1	

Depth (ft bgs)	Sample Interval & Number	Blow Counts per ( )	Sample Recovery (ft or %)	PID/FID Reading	DESCRIPTION: Major and secondary lithology, Munsell color, grain size, gradation, angularity plasticity, density (or firmness), moisture content, soil structure (fractures, odor, staining, etc.), geologic origin (till, alluvium, etc.)	USCS Symbol	Well Construction	Comments
1	SB17-02-01-02 @1355	N/A	100%	—	0-1 topsoil		N/A	
2				Ø	1-2 Sandy Clay, Red/brown w/ trace evidence of gray clay @ 1.5-1.6' bgs, no odor, dry, friable	CL		
3	SB17-02-02-04 @1400			Ø	2-4 clayey sand (2-2.5) becoming poorly sorted F-VF sand ranging from tan-orange-brown, dry no odor	SC-SP		
4								
5	SB17-02-05-07 @1405		75%	Ø	4-7 VF sand, poorly sorted, dry, loose, no odor orange, tan, tan-brown	SP		
6								
7				Ø	7-8 Sand/gravel mix, no odor, fine-med gravel, dry			
8					1355-EOB @ 8' bgs			

NOTES:

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 7311150004	PROJECT NAME: Ashwaubenon - GP		
BORING NUMBER: SB17-03	COORDINATES:		DATE: 8/14/17
GROUND SURFACE ELEVATION: 643.06	GROUNDWATER DEPTH: N/A DATE: TIME:		DATE STARTED: 8/14/17
BORING TOTAL DEPTH:	DRILLING CONTRACTOR: PT		DATE COMPLETED: 8/14/17
ENGINEER/GEOLOGIST: CDV	DRILLING METHOD: DPT (all-terrain)		PAGE: 1 OF: 1

Depth (ft bgs)	Sample Interval & Number	Blow Counts per ( )	Sample Recovery (ft or %)	PID/FID Reading	DESCRIPTION: Major and secondary lithology, Munsell color, grain size, gradation, angularity plasticity, density (or firmness), moisture content, soil structure (fractures, odor, staining, etc.), geologic origin (till, alluvium, etc.)	USCS Symbol	Well Construction	Comments
1	SB17-03-01-02 @1425	N/A	100%	Ø	0-1 topsoil		N/A	
2				Ø	1-4 Poorly sorted VF-F sand, dry, loose, dk yellowish brown, (10YR-4/6), no odor	SP		
3	SB17-03-02-04 @1430			Ø				
4					4-7 SAA			
5			50%	Ø				
6	SB17-03-05-07 @1435			Ø				
7				Ø	7-8 Sand/Gravel mix, gravel is fine-med, dry, no odor, tan, loose			
8					1435 - EOB @ 8'			

NOTES:

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 731115000004	PROJECT NAME: Ashwaubenon-GP		
BORING NUMBER: SB17-04	COORDINATES:	DATE: 8/14/17	
GROUND SURFACE ELEVATION:	GROUNDWATER DEPTH: DATE: TIME:	DATE STARTED: 8/14/17	
BORING TOTAL DEPTH:	DRILLING CONTRACTOR:	DATE COMPLETED: 8/14/17	
ENGINEER/GEOLOGIST: CDV	DRILLING METHOD:	PAGE: 1 OF: 1	

Depth (ft bgs)	Sample Interval & Number	Blow Counts per ( )	Sample Recovery (ft or %)	PID/FID Reading	DESCRIPTION: Major and secondary lithology, Munsell color, grain size, gradation, angularity plasticity, density (or firmness), moisture content, soil structure (fractures, odor, staining, etc.), geologic origin (till, alluvium, etc.)	USCS Symbol	Well Construction	Comments
1		N/A	75%	—	0-2 Asphalt & road base		N/A	
2					2-4 paper sludge & gray clay material, friable, no odor, GLEY1-5/1			
3				0.1				
4			100%	75	SAA, GLEY1-4/1 (dk gray), strong odor, damp			
5				129				
6				50				
7				62				
8			100%	51				
9				82				
10				112				
11				90				
12			50%	67				
13				96				
14				6.2	14-16 is sandy clay, friable, damp, red/brown, sl odor (10YR-3/6) CV	CL		
15				3.3				
16			75%	7	16-EOB is VF Sand-Silty Sand, poorly graded, no odor, dry-damp (10YR-5/6) yellowish brown	SP-SM		
17		SB17-04 17-19 @1220		18				
18				5				
19					EOB @ 19.7' bgs - refusal - 1210			
20								

NOTES:

APPENDIX B

Survey Data

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	DATE
6003	4926850.47	414752.38	196.00	SB17-01A	8/7/2017
6004	4926818.03	414817.68	196.00	SB 17-03	8/7/2017
6005	4926833.55	414786.47	196.01	SB17-02	8/7/2017
6006	4926846.40	414760.56	196.07	SB 17-01B	8/7/2017

Coordinate System - Universal Transverse Mercator (UTM) Zone 16
Elevation Datum - North American Vertical Datum of 1988 (NAVD88)
Units - Meters

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	DATE
6003	245343.10	2471543.75	643.05	SB17-01A	8/7/2017
6004	245244.60	2471761.84	643.06	SB 17-03	8/7/2017
6005	245291.70	2471657.63	643.08	SB17-02	8/7/2017
6006	245330.73	2471571.10	643.27	SB 17-01B	8/7/2017

Coordinate System - Wisconsin State Plane, Central Zone
Elevation Datum - North American Vertical Datum of 1988 (NAVD88)
Units - US Survey Feet

The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12.2
1        National Geodetic Survey,   Retrieval Date = AUGUST  9, 2017
 DL2613 ***********************************************************************
 DL2613  DESIGNATION -  4K81
 DL2613  PID         -  DL2613
 DL2613  STATE/COUNTY-  WI/BROWN
 DL2613  COUNTRY     -  US
 DL2613  USGS QUAD   -  DE PERE (1992)
 DL2613
 DL2613                         *CURRENT SURVEY CONTROL
 DL2613  ______________________________________________________________________
 DL2613* NAD 83(2011) POSITION- 44 29 39.08027(N) 088 06 20.26678(W)   ADJUSTED
 DL2613* NAD 83(2011) ELLIP HT-   168.900 (meters)        (04/14/17)   ADJUSTED
 DL2613* NAD 83(2011) EPOCH   -  2010.00
 DL2613* NAVD 88 ORTHO HEIGHT -   205.137 (meters)      673.02  (feet) ADJUSTED
 DL2613  ______________________________________________________________________
 DL2613  GEOID HEIGHT    -        -36.236 (meters)                     GEOID12B
 DL2613  NAD 83(2011) X  -    150,649.939 (meters)                     COMP
 DL2613  NAD 83(2011) Y  - -4,554,790.603 (meters)                     COMP
 DL2613  NAD 83(2011) Z  -  4,447,545.968 (meters)                     COMP
 DL2613  LAPLACE CORR    -         -0.14  (seconds)                    DEFLEC12B
 DL2613  DYNAMIC HEIGHT  -        205.111 (meters)      672.94  (feet) COMP
 DL2613  MODELED GRAVITY -    980,487.0   (mgal)                       NAVD 88
 DL2613
 DL2613  VERT ORDER      -  SECOND    CLASS I
 DL2613
 DL2613  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 DL2613  Standards:
 DL2613         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 DL2613            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
 DL2613  ------------------------------------------------------------------
 DL2613  NETWORK    0.45   0.65           0.20   0.16   0.33      0.00361162
 DL2613  ------------------------------------------------------------------
 DL2613  Click here for local accuracies and other accuracy information.
 DL2613
 DL2613
 DL2613.The horizontal coordinates were established by GPS observations
 DL2613.and adjusted by the WI DEPT OF TRANSP in April 2017.
 DL2613
 DL2613.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
 DL2613.been affixed to the stable North American tectonic plate. See
 DL2613.NA2011 for more information.
 DL2613
 DL2613.The horizontal coordinates are valid at the epoch date displayed above
 DL2613.which is a decimal equivalence of Year/Month/Day.
 DL2613
 DL2613.The orthometric height was determined by differential leveling and
 DL2613.adjusted by the WI DEPT OF TRANSP
 DL2613.in May 2012.
 DL2613
 DL2613.No vertical observational check was made to the station.
```

```
DL2613
DL2613.Significant digits in the geoid height do not necessarily reflect accuracy.
DL2613.GEOID12B height accuracy estimate available here.
DL2613
DL2613.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DL2613
DL2613.The Laplace correction was computed from DEFLEC12B derived deflections.
DL2613
DL2613.The ellipsoidal height was determined by GPS observations
DL2613.and is referenced to NAD 83.
DL2613
DL2613.The dynamic height is computed by dividing the NAVD 88
DL2613.geopotential number by the normal gravity value computed on the
DL2613.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL2613.degrees latitude (g = 980.6199 gals.).
DL2613
DL2613.The modeled gravity was interpolated from observed gravity values.
DL2613
DL2613. The following values were computed from the NAD 83(2011) position.
DL2613
DL2613;                     North         East     Units Scale Factor Converg.
DL2613;SPC WI C     -    75,190.290   750,654.136   MT  0.99996280   +1 20 11.8
DL2613;SPC WI C     -   246,686.81  2,462,771.11   sFT  0.99996280   +1 20 11.8
DL2613;UTM  16      - 4,927,358.146   412,096.094   MT  0.99969502   -0 46 29.7
DL2613
DL2613!             -  Elev Factor  x  Scale Factor =   Combined Factor
DL2613!SPC WI C     -   0.99997352  x   0.99996280  =   0.99993632
DL2613!UTM  16      -   0.99997352  x   0.99969502  =   0.99966855
DL2613
DL2613_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TDQ1209627358(NAD 83)
DL2613
DL2613                           SUPERSEDED SURVEY CONTROL
DL2613
DL2613  NAD 83(2007)-  44 29 39.08047(N)    088 06 20.26757(W) AD(2002.00) 1
DL2613  ELLIP H (04/03/12)  168.939  (m)                       GP(2002.00) 4 1
DL2613
DL2613.Superseded values are not recommended for survey control.
DL2613
DL2613.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DL2613.See file dsdata.pdf to determine how the superseded data were derived.
DL2613
DL2613_MARKER: DD = SURVEY DISK
DL2613_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DL2613_STAMPING: 4K81 2007
DL2613_MARK LOGO: WIDT
DL2613_PROJECTION: FLUSH
DL2613_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
DL2613_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DL2613_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DL2613+SATELLITE: SATELLITE OBSERVATIONS - April 20, 2015
DL2613
DL2613  HISTORY     - Date     Condition        Report By
DL2613  HISTORY     - 2008     MONUMENTED       WIDT
DL2613  HISTORY     - 20081104 GOOD             WIDT
DL2613  HISTORY     - 20150420 GOOD             WIDT
DL2613
DL2613                           STATION DESCRIPTION
DL2613
DL2613'DESCRIBED BY WI DEPT OF TRANSP 2008 (EPS)
DL2613'TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 41 WITH STATE
```

DL2613'HIGHWAY 172 IN THE VILLAGE OF ASHWAUBEON, GO WEST ON STATE HIGHWAY 172
DL2613'FOR 1.4 MI (2.3 KM) TO COUNTY HIGHWAY EB (PACKERLAND DRIVE), TURN LEFT
DL2613'AND GO SOUTH ON COUNTY HIGHWAY EB (PACKERLAND DRIVE) FOR 0.05 MILE AND
DL2613'THE STATION ON THE RIGHT. THE STATION IS A BRONZE WISCONSIN
DL2613'DEPARTMENT OF TRANSPORTATION GEODETIC SURVEY CONTROL STATION DISK
DL2613'STAMPED --4K81 2007-- SET IN THE TOP OF A 40-CM (16 INCH) DIAMETER
DL2613'CONCRETE POST 2.5 M (8.2 FT) DEEP, FLUSH WITH THE GROUND, AND
DL2613'APPROXIMATELY LEVEL WITH THE HIGHWAY PAVEMENT. THE STATION IS 46.1 M
DL2613'(151.2 FT) WEST OF THE CENTERLINE OF COUNTY HIGHWAY EB (PACKERLAND
DL2613'DRIVE), APPROXIMATELY 105 M (344.5 FT) SOUTH OF THE CENTERLINE OF
DL2613'STATE HIGHWAY 172, 50.5 M (165.7 FT) SOUTHWEST OF AN ELECTRICAL BOX,
DL2613'35.5 M (116.5 FT) WEST OF THE CENTERLINE OF A BICYCLE PATH, 35.5 M
DL2613'(116.5 FT) WEST-NORTHWEST OF A WOOD POST WITH --0.5 MI.-- PLAQUES
DL2613'ATTACHED, AND 0.6 M (2.0 FT) EAST OF A WHITE PLASTIC WITNESS POST.
DL2613'---NOTE---THIS STATION HAS NO VISIBLE OBSTRUCTIONS EXTENDING HIGHER
DL2613'THAN 15 DEGREES ABOVE THE HORIZON.
DL2613
DL2613 STATION RECOVERY (2015)
DL2613
DL2613'RECOVERY NOTE BY WI DEPT OF TRANSP 2015 (EPS)
DL2613'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:02

APPENDIX C

Laboratory Analytical Reports and Data Quality Review

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

August 31, 2017

Joe Renier
AMEC FW
800 Marquette Ave
Minneapolis, MN 55402

RE: Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Dear Joe Renier:
Enclosed are the analytical results for sample(s) received by the laboratory on August 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,

Steven Mleczko for
Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40155012001	**TW17-TRIP-01**	Water	08/14/17 09:15	08/15/17 11:48
40155012002	**TW17-RINS-01**	Water	08/14/17 10:00	08/15/17 11:48
40155012003	**TW17-01-0814**	Water	08/14/17 10:30	08/15/17 11:48
40155012004	**SB17-RINS-01**	Water	08/14/17 11:00	08/15/17 11:48
40155012005	**SB17-04-17-19**	Solid	08/14/17 12:20	08/15/17 11:48
40155012006	**SB17-01-02-04**	Solid	08/14/17 13:30	08/15/17 11:48
40155012007	**SB17-01-01-02**	Solid	08/14/17 13:25	08/15/17 11:48
40155012008	**SB17-01-06-08**	Solid	08/14/17 13:40	08/15/17 11:48
40155012009	**SB17-02-01-02**	Solid	08/14/17 13:55	08/15/17 11:48
40155012010	**SB17-02-02-04**	Solid	08/14/17 14:00	08/15/17 11:48
40155012011	**SB17-02-05-07**	Solid	08/14/17 14:05	08/15/17 11:48
40155012012	**TW17-DUP-01**	Water	08/14/17 12:00	08/15/17 11:48
40155012013	**SB17-DUP-01**	Solid	08/14/17 12:01	08/15/17 11:48
40155012014	**SB17-03-01-02**	Solid	08/14/17 14:25	08/15/17 11:48
40155012015	**SB17-03-02-04**	Solid	08/14/17 14:30	08/15/17 11:48
40155012016	**SB17-03-05-07**	Solid	08/14/17 14:35	08/15/17 11:48
40155012017	**SB17-IDW-0815**	Solid	08/15/17 10:20	08/15/17 11:48
40155012018	**TW17-IDW-0815**	Water	08/15/17 10:40	08/15/17 11:48

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40155012001	**TW17-TRIP-01**	EPA 8260	HNW	64	PASI-G
40155012002	**TW17-RINS-01**	EPA 8082	BLM	10	PASI-G
		EPA 6020	SDW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	64	PASI-G
40155012003	**TW17-01-0814**	EPA 8082	BLM	10	PASI-G
		EPA 6020	SDW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	64	PASI-G
40155012004	**SB17-RINS-01**	EPA 8082	BLM	10	PASI-G
		EPA 6020	SDW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	64	PASI-G
40155012005	**SB17-04-17-19**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012006	**SB17-01-02-04**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012007	**SB17-01-01-02**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012008	**SB17-01-06-08**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012009	**SB17-02-01-02**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	SMS	1	PASI-G
40155012010	**SB17-02-02-04**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012011	**SB17-02-05-07**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012012	**TW17-DUP-01**	EPA 8082	BLM	10	PASI-G
		EPA 6020	SDW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	64	PASI-G
40155012013	**SB17-DUP-01**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012014	**SB17-03-01-02**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012015	**SB17-03-02-04**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012016	**SB17-03-05-07**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	SMS	1	PASI-G
40155012017	**SB17-IDW-0815**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 6010	JLD	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7471	AJT	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8270	RJN	16	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 8260	LAP	13	PASI-G
		ASTM D2974-87	SSM	1	PASI-G
		EPA 1010	DEY	1	PASI-G
		EPA 9040	ALY	1	PASI-G
40155012018	**TW17-IDW-0815**	EPA 8082	BLM	10	PASI-G
		EPA 6020	SDW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 1010	DEY	1	PASI-G
		SM 2540D	JMN	1	PASI-G
		SM 4500-H+B	ALY	1	PASI-G
		EPA 410.4	TJJ	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40155012002	**TW17-RINS-01**					
EPA 6020	Barium, Dissolved	1.4	ug/L	1.1	08/24/17 20:44	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.020J	ug/L	0.029	08/17/17 15:29	
EPA 8270 by HVI	Pyrene	0.010J	ug/L	0.039	08/17/17 15:29	B
EPA 8270 by HVI	Total PAHs	0.036	ug/L		08/17/17 15:29	
40155012003	**TW17-01-0814**					
EPA 6020	Barium	28.3	ug/L	1.1	08/24/17 21:38	
EPA 6020	Cadmium	0.14J	ug/L	1.0	08/24/17 21:38	
EPA 6020	Selenium	0.79J	ug/L	1.1	08/24/17 21:38	
EPA 8270 by HVI	Pyrene	0.016J	ug/L	0.037	08/17/17 13:02	B
EPA 8270 by HVI	Total PAHs	0.024	ug/L		08/17/17 13:02	
40155012004	**SB17-RINS-01**					
EPA 6020	Barium, Dissolved	2.0	ug/L	1.1	08/24/17 20:57	
EPA 6020	Lead, Dissolved	0.20J	ug/L	1.0	08/24/17 20:57	
EPA 8270 by HVI	Pyrene	0.0094J	ug/L	0.039	08/17/17 15:45	B
EPA 8270 by HVI	Total PAHs	0.017	ug/L		08/17/17 15:45	
40155012005	**SB17-04-17-19**					
EPA 6010	Arsenic	1.1J	mg/kg	5.3	08/23/17 16:18	
EPA 6010	Barium	9.8	mg/kg	0.53	08/23/17 16:18	
EPA 6010	Chromium	6.2	mg/kg	1.1	08/23/17 16:18	
EPA 6010	Lead	1.6	mg/kg	1.4	08/23/17 16:18	
ASTM D2974-87	Percent Moisture	5.5	%	0.10	08/18/17 16:59	
40155012006	**SB17-01-02-04**					
EPA 6010	Arsenic	2.8J	mg/kg	5.7	08/23/17 16:25	
EPA 6010	Barium	29.3	mg/kg	0.57	08/23/17 16:25	
EPA 6010	Chromium	20.0	mg/kg	1.1	08/23/17 16:25	
EPA 6010	Lead	4.7	mg/kg	1.5	08/23/17 16:25	
ASTM D2974-87	Percent Moisture	14.1	%	0.10	08/18/17 17:00	
40155012007	**SB17-01-01-02**					
EPA 8082	PCB-1254 (Aroclor 1254)	32.9J	ug/kg	54.0	08/29/17 08:57	
EPA 8082	PCB, Total	32.9J	ug/kg	54.0	08/29/17 08:57	
EPA 6010	Arsenic	1.9J	mg/kg	5.0	08/23/17 16:28	
EPA 6010	Barium	25.1	mg/kg	0.50	08/23/17 16:28	
EPA 6010	Chromium	13.6	mg/kg	1.0	08/23/17 16:28	
EPA 6010	Lead	5.8	mg/kg	1.3	08/23/17 16:28	
ASTM D2974-87	Percent Moisture	7.5	%	0.10	08/18/17 17:00	
40155012008	**SB17-01-06-08**					
EPA 6010	Barium	4.1	mg/kg	0.51	08/23/17 16:30	
EPA 6010	Chromium	3.4	mg/kg	1.0	08/23/17 16:30	
EPA 6010	Lead	1.5	mg/kg	1.3	08/23/17 16:30	
ASTM D2974-87	Percent Moisture	3.3	%	0.10	08/18/17 17:00	
40155012009	**SB17-02-01-02**					
EPA 8082	PCB-1248 (Aroclor 1248)	1190	ug/kg	177	08/29/17 09:33	
EPA 8082	PCB-1254 (Aroclor 1254)	939	ug/kg	177	08/29/17 09:33	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40155012009	**SB17-02-01-02**					
EPA 8082	PCB-1260 (Aroclor 1260)	706	ug/kg	177	08/29/17 09:33	
EPA 8082	PCB, Total	2840	ug/kg	177	08/29/17 09:33	
EPA 6010	Arsenic	4.4J	mg/kg	5.7	08/23/17 16:33	
EPA 6010	Barium	246	mg/kg	0.57	08/23/17 16:33	
EPA 6010	Cadmium	10.0	mg/kg	0.57	08/23/17 16:33	
EPA 6010	Chromium	65.5	mg/kg	1.1	08/23/17 16:33	
EPA 6010	Lead	294	mg/kg	1.5	08/23/17 16:33	
EPA 6010	Silver	2.5	mg/kg	1.1	08/23/17 16:33	
EPA 7471	Mercury	4.4	mg/kg	0.21	08/28/17 13:00	
ASTM D2974-87	Percent Moisture	15.1	%	0.10	08/18/17 17:00	
40155012010	**SB17-02-02-04**					
EPA 6010	Arsenic	2.0J	mg/kg	5.4	08/23/17 16:40	
EPA 6010	Barium	39.4	mg/kg	0.54	08/23/17 16:40	
EPA 6010	Chromium	11.9	mg/kg	1.1	08/23/17 16:40	
EPA 6010	Lead	5.0	mg/kg	1.4	08/23/17 16:40	
ASTM D2974-87	Percent Moisture	12.1	%	0.10	08/18/17 17:00	
40155012011	**SB17-02-05-07**					
EPA 6010	Arsenic	1.9J	mg/kg	5.1	08/23/17 16:42	
EPA 6010	Barium	52.7	mg/kg	0.51	08/23/17 16:42	
EPA 6010	Chromium	21.5	mg/kg	1.0	08/23/17 16:42	
EPA 6010	Lead	4.2	mg/kg	1.3	08/23/17 16:42	
ASTM D2974-87	Percent Moisture	8.1	%	0.10	08/18/17 17:00	
40155012012	**TW17-DUP-01**					
EPA 6020	Arsenic	0.47J	ug/L	1.0	08/24/17 22:05	
EPA 6020	Barium	28.3	ug/L	1.1	08/24/17 22:05	
EPA 6020	Cadmium	0.28J	ug/L	1.0	08/24/17 22:05	
EPA 6020	Lead	0.33J	ug/L	1.0	08/24/17 22:05	
EPA 6020	Selenium	1.2	ug/L	1.1	08/24/17 22:05	
EPA 6020	Silver	0.12J	ug/L	0.50	08/24/17 22:05	
EPA 8270 by HVI	Pyrene	0.0087J	ug/L	0.042	08/17/17 16:02	B
EPA 8270 by HVI	Total PAHs	0.014	ug/L		08/17/17 16:02	
40155012013	**SB17-DUP-01**					
EPA 6010	Arsenic	1.8J	mg/kg	5.6	08/23/17 16:44	
EPA 6010	Barium	20.9	mg/kg	0.56	08/23/17 16:44	
EPA 6010	Chromium	10.4	mg/kg	1.1	08/23/17 16:44	
EPA 6010	Lead	2.5	mg/kg	1.4	08/23/17 16:44	
ASTM D2974-87	Percent Moisture	12.7	%	0.10	08/18/17 17:00	
40155012014	**SB17-03-01-02**					
EPA 6010	Barium	28.0	mg/kg	0.52	08/23/17 16:47	
EPA 6010	Chromium	13.0	mg/kg	1.0	08/23/17 16:47	
EPA 6010	Lead	4.2	mg/kg	1.3	08/23/17 16:47	
ASTM D2974-87	Percent Moisture	4.4	%	0.10	08/18/17 17:00	
40155012015	**SB17-03-02-04**					
EPA 6010	Barium	13.6	mg/kg	0.48	08/23/17 16:49	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40155012015	**SB17-03-02-04**					
EPA 6010	Chromium	7.1	mg/kg	0.97	08/23/17 16:49	
EPA 6010	Lead	1.6	mg/kg	1.3	08/23/17 16:49	
ASTM D2974-87	Percent Moisture	2.1	%	0.10	08/18/17 17:00	
40155012016	**SB17-03-05-07**					
EPA 6010	Barium	13.4	mg/kg	0.51	08/23/17 16:51	
EPA 6010	Chromium	7.6	mg/kg	1.0	08/23/17 16:51	
EPA 6010	Lead	1.7	mg/kg	1.3	08/23/17 16:51	
EPA 7471	Mercury	0.013J	mg/kg	0.036	08/28/17 11:24	1q
ASTM D2974-87	Percent Moisture	3.1	%	0.10	08/18/17 17:00	
40155012017	**SB17-IDW-0815**					
EPA 8082	PCB-1242 (Aroclor 1242)	560	ug/kg	71.9	08/29/17 11:37	
EPA 8082	PCB-1254 (Aroclor 1254)	571	ug/kg	71.9	08/29/17 11:37	
EPA 8082	PCB-1260 (Aroclor 1260)	256	ug/kg	71.9	08/29/17 11:37	
EPA 8082	PCB, Total	1390	ug/kg	71.9	08/29/17 11:37	
EPA 6010	Arsenic	3.0J	mg/kg	6.8	08/24/17 11:42	
EPA 6010	Barium	204	mg/kg	0.68	08/24/17 11:42	
EPA 6010	Cadmium	1.4	mg/kg	0.68	08/24/17 11:42	
EPA 6010	Chromium	48.5	mg/kg	1.4	08/24/17 11:42	
EPA 6010	Lead	216	mg/kg	1.8	08/24/17 11:42	
EPA 6010	Silver	1.8	mg/kg	1.4	08/24/17 11:42	
EPA 6010	Barium	0.72	mg/L	0.075	08/21/17 18:13	
EPA 7471	Mercury	1.0	mg/kg	0.052	08/28/17 11:26	
EPA 8270 by SIM	Acenaphthene	76.3J	ug/kg	92.9	08/29/17 14:15	
EPA 8270 by SIM	Benzo(a)anthracene	70.8J	ug/kg	76.3	08/29/17 14:15	
EPA 8270 by SIM	Benzo(a)pyrene	56.1J	ug/kg	60.2	08/29/17 14:15	
EPA 8270 by SIM	Benzo(b)fluoranthene	84.2	ug/kg	67.7	08/29/17 14:15	
EPA 8270 by SIM	Benzo(g,h,i)perylene	42.7J	ug/kg	48.7	08/29/17 14:15	
EPA 8270 by SIM	Benzo(k)fluoranthene	26.9J	ug/kg	60.2	08/29/17 14:15	
EPA 8270 by SIM	Chrysene	69.4J	ug/kg	80.6	08/29/17 14:15	
EPA 8270 by SIM	Fluoranthene	154	ug/kg	125	08/29/17 14:15	
EPA 8270 by SIM	Fluorene	73.0J	ug/kg	99.3	08/29/17 14:15	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	36.3J	ug/kg	52.8	08/29/17 14:15	
EPA 8270 by SIM	1-Methylnaphthalene	617	ug/kg	96.4	08/29/17 14:15	
EPA 8270 by SIM	2-Methylnaphthalene	503	ug/kg	120	08/29/17 14:15	
EPA 8270 by SIM	Naphthalene	374	ug/kg	202	08/29/17 14:15	
EPA 8270 by SIM	Phenanthrene	231J	ug/kg	279	08/29/17 14:15	
EPA 8270 by SIM	Pyrene	120	ug/kg	108	08/29/17 14:15	
EPA 8260	1,2,4-Trimethylbenzene	4420	ug/kg	345	08/18/17 09:29	
EPA 8260	1,3,5-Trimethylbenzene	865	ug/kg	345	08/18/17 09:29	
EPA 8260	Naphthalene	2560	ug/kg	1440	08/18/17 09:29	
EPA 8260	n-Butylbenzene	2330	ug/kg	345	08/18/17 09:29	
EPA 8260	n-Propylbenzene	394	ug/kg	345	08/18/17 09:29	
EPA 8260	o-Xylene	144J	ug/kg	345	08/18/17 09:29	
EPA 8260	p-Isopropyltoluene	917	ug/kg	345	08/18/17 09:29	
EPA 8260	sec-Butylbenzene	594	ug/kg	345	08/18/17 09:29	
ASTM D2974-87	Percent Moisture	30.4	%	0.10	08/15/17 18:58	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40155012017	**SB17-IDW-0815**					
EPA 1010	Flashpoint	>210	deg F		08/17/17 11:16	
EPA 9040	pH	7.9	Std. Units	0.10	08/22/17 10:40	2q,H6
40155012018	**TW17-IDW-0815**					
EPA 6020	Arsenic	4.5	ug/L	1.0	08/24/17 22:19	
EPA 6020	Barium	977	ug/L	1.1	08/24/17 22:19	
EPA 6020	Cadmium	0.95J	ug/L	1.0	08/24/17 22:19	
EPA 6020	Chromium	45.9	ug/L	3.4	08/24/17 22:19	
EPA 6020	Lead	97.2	ug/L	1.0	08/24/17 22:19	
EPA 6020	Selenium	0.66J	ug/L	1.1	08/24/17 22:19	
EPA 6020	Silver	0.85	ug/L	0.50	08/24/17 22:19	
EPA 7470	Mercury	1.0	ug/L	0.42	08/22/17 09:05	
EPA 8270 by HVI	Acenaphthene	0.021J	ug/L	0.029	08/17/17 17:56	
EPA 8270 by HVI	Anthracene	0.030J	ug/L	0.049	08/17/17 17:56	
EPA 8270 by HVI	Benzo(a)anthracene	0.073	ug/L	0.036	08/17/17 17:56	
EPA 8270 by HVI	Benzo(a)pyrene	0.087	ug/L	0.050	08/17/17 17:56	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.11	ug/L	0.027	08/17/17 17:56	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.066	ug/L	0.032	08/17/17 17:56	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.073	ug/L	0.036	08/17/17 17:56	
EPA 8270 by HVI	Chrysene	0.14	ug/L	0.062	08/17/17 17:56	
EPA 8270 by HVI	Fluoranthene	0.26	ug/L	0.050	08/17/17 17:56	
EPA 8270 by HVI	Fluorene	0.021J	ug/L	0.038	08/17/17 17:56	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.053J	ug/L	0.083	08/17/17 17:56	
EPA 8270 by HVI	Naphthalene	0.030J	ug/L	0.086	08/17/17 17:56	
EPA 8270 by HVI	Phenanthrene	0.19	ug/L	0.065	08/17/17 17:56	
EPA 8270 by HVI	Pyrene	0.26	ug/L	0.036	08/17/17 17:56	
EPA 8270 by HVI	Total PAHs	1.4	ug/L		08/17/17 17:56	
EPA 1010	Flashpoint	>210	deg F		08/17/17 12:02	
SM 2540D	Total Suspended Solids	149	mg/L	6.7	08/17/17 11:03	
SM 4500-H+B	pH	7.8	Std. Units	0.10	08/22/17 11:00	H6
EPA 410.4	Chemical Oxygen Demand	58.9	mg/L	44.8	08/23/17 12:07	

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
17 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 264895

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
12 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 6010**
Description: 6010 MET ICP, TCLP
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
2 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.
- SB17-RINS-01 (Lab ID: 40155012004)
- TW17-RINS-01 (Lab ID: 40155012002)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 7470**
Description: 7470 Mercury, TCLP
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 7470**
Description: 7470 Mercury
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
3 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
2 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.
- SB17-RINS-01 (Lab ID: 40155012004)
- TW17-RINS-01 (Lab ID: 40155012002)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 7471**
Description: 7471 Mercury
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
12 samples were analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 265504

1q: Analyte was detected in the associated method blank at a concentration of -0.012 mg/Kg.

- SB17-01-01-02 (Lab ID: 40155012007)
  - Mercury
- SB17-01-02-04 (Lab ID: 40155012006)
  - Mercury
- SB17-01-06-08 (Lab ID: 40155012008)
  - Mercury
- SB17-02-02-04 (Lab ID: 40155012010)
  - Mercury
- SB17-02-05-07 (Lab ID: 40155012011)
  - Mercury
- SB17-03-01-02 (Lab ID: 40155012014)
  - Mercury
- SB17-03-02-04 (Lab ID: 40155012015)
  - Mercury

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 7471**
Description: 7471 Mercury
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

Analyte Comments:

QC Batch: 265504

1q: Analyte was detected in the associated method blank at a concentration of -0.012 mg/Kg.

- SB17-03-05-07 (Lab ID: 40155012016)
  - Mercury
- SB17-04-17-19 (Lab ID: 40155012005)
  - Mercury
- SB17-DUP-01 (Lab ID: 40155012013)
  - Mercury

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
3 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 266023

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40155333007

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

- MS (Lab ID: 1563984)
  - 2-Methylnaphthalene
  - Naphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1563985)
  - Naphthalene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8270**
Description: 8270 MSSV TCLP Sep Funnel
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 265605

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40155012017,40155087001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1561818)
  - 2,4,6-Trichlorophenol
  - 2,4-Dinitrotoluene
  - Pentachlorophenol
  - Pyridine

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8270 by HVI**
Description: 8270 MSSV PAH by HVI
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
5 samples were analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 264867

B: Analyte was detected in the associated method blank.

- BLANK for HBN 264867 [OEXT/357 (Lab ID: 1558285)
  - Pyrene

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 264941

3q: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from analysis of MS/MSD sample that demonstrated similar interference).

- SB17-04-17-19 (Lab ID: 40155012005)
  - Dibromofluoromethane (S)

4q: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from analysis of parent sample that demonstrated similar interference).

- MS (Lab ID: 1558651)
  - Dibromofluoromethane (S)

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

Analyte Comments:

QC Batch: 264941

4q: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from analysis of parent sample that demonstrated similar interference).

- MSD (Lab ID: 1558652)
  - Dibromofluoromethane (S)

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- SB17-IDW-0815 (Lab ID: 40155012017)
  - Dibromofluoromethane (S)

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8260**
Description: 8260 MSV TCLP
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8260**
Description: 8260 MSV
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 264869

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 1558305)
  - Chloroform

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 264731

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40155012003

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

- MS (Lab ID: 1557702)
  - 1,1,2,2-Tetrachloroethane
  - 1,1-Dichloroethane
  - 1,2-Dibromo-3-chloropropane
  - Chloroethane
  - Isopropylbenzene (Cumene)
  - Methylene Chloride
  - trans-1,2-Dichloroethene

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 8260**
Description: 8260 MSV
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

QC Batch: 264869

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40155121004

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1558442)
  - Chloroform

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

- MS (Lab ID: 1558442)
  - 1,2-Dichloroethane

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 1010**
Description: 1010 Flashpoint,Closed Cup
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
2 samples were analyzed for EPA 1010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 264858

- SB17-IDW-0815 (Lab ID: 40155012017)
  - Flashpoint

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
1 sample was analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 264880

R1: RPD value was outside control limits.
- DUP (Lab ID: 1558366)
  - Total Suspended Solids

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
1 sample was analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- TW17-IDW-0815 (Lab ID: 40155012018)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 9040**
Description: 9040 pH
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
1 sample was analyzed for EPA 9040. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- SB17-IDW-0815 (Lab ID: 40155012017)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 265383

2q: Due to the sample matrix, DI water was added to this sample on a one to one basis and the sample was stirred before analysis.
- SB17-IDW-0815 (Lab ID: 40155012017)
  - pH

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Method: **EPA 410.4**
Description: 410.4 COD
Client: AMEC Foster Wheeler - MN
Date: August 31, 2017

General Information:
1 sample was analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 410.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-TRIP-01 **Lab ID: 40155012001** Collected: 08/14/17 09:15 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		08/16/17 14:57	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		08/16/17 14:57	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		08/16/17 14:57	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		08/16/17 14:57	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/16/17 14:57	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		08/16/17 14:57	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		08/16/17 14:57	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		08/16/17 14:57	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		08/16/17 14:57	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		08/16/17 14:57	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		08/16/17 14:57	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		08/16/17 14:57	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/16/17 14:57	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/16/17 14:57	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		08/16/17 14:57	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/16/17 14:57	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/16/17 14:57	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		08/16/17 14:57	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		08/16/17 14:57	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		08/16/17 14:57	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/16/17 14:57	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		08/16/17 14:57	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		08/16/17 14:57	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		08/16/17 14:57	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/16/17 14:57	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		08/16/17 14:57	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		08/16/17 14:57	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-TRIP-01 **Lab ID: 40155012001** Collected: 08/14/17 09:15 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		08/16/17 14:57	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		08/16/17 14:57	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		08/16/17 14:57	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		08/16/17 14:57	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		08/16/17 14:57	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		08/16/17 14:57	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		08/16/17 14:57	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		08/16/17 14:57	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 14:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		08/16/17 14:57	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		08/16/17 14:57	1868-53-7	
Toluene-d8 (S)	114	%	70-130		1		08/16/17 14:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-RINS-01 **Lab ID: 40155012002** Collected: 08/14/17 10:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.27**	ug/L	0.55	0.27	1	08/17/17 13:23	08/18/17 23:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.27**	ug/L	0.55	0.27	1	08/17/17 13:23	08/18/17 23:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.27**	ug/L	0.55	0.27	1	08/17/17 13:23	08/18/17 23:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.27**	ug/L	0.55	0.27	1	08/17/17 13:23	08/18/17 23:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.27**	ug/L	0.55	0.27	1	08/17/17 13:23	08/18/17 23:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.27**	ug/L	0.55	0.27	1	08/17/17 13:23	08/18/17 23:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.55	0.27	1	08/17/17 13:23	08/18/17 23:07	11096-82-5	
PCB, Total	**<0.27**	ug/L	0.55	0.27	1	08/17/17 13:23	08/18/17 23:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	48-123		1	08/17/17 13:23	08/18/17 23:07	877-09-8	
Decachlorobiphenyl (S)	74	%	35-125		1	08/17/17 13:23	08/18/17 23:07	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<0.28**	ug/L	1.0	0.28	1	08/24/17 09:08	08/24/17 20:44	7440-38-2	
Barium, Dissolved	**1.4**	ug/L	1.1	0.34	1	08/24/17 09:08	08/24/17 20:44	7440-39-3	
Cadmium, Dissolved	**<0.081**	ug/L	1.0	0.081	1	08/24/17 09:08	08/24/17 20:44	7440-43-9	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	08/24/17 09:08	08/24/17 20:44	7440-47-3	P4
Lead, Dissolved	**<0.20**	ug/L	1.0	0.20	1	08/24/17 09:08	08/24/17 20:44	7439-92-1	
Selenium, Dissolved	**<0.32**	ug/L	1.1	0.32	1	08/24/17 09:08	08/24/17 20:44	7782-49-2	
Silver, Dissolved	**<0.10**	ug/L	0.50	0.10	1	08/24/17 09:08	08/24/17 20:44	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	08/28/17 11:20	08/29/17 10:08	7439-97-6	P4
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0061**	ug/L	0.031	0.0061	1	08/17/17 10:30	08/17/17 15:29	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	08/17/17 10:30	08/17/17 15:29	208-96-8	
Anthracene	**<0.011**	ug/L	0.053	0.011	1	08/17/17 10:30	08/17/17 15:29	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	08/17/17 10:30	08/17/17 15:29	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	08/17/17 10:30	08/17/17 15:29	50-32-8	
Benzo(b)fluoranthene	**0.020J**	ug/L	0.029	0.0058	1	08/17/17 10:30	08/17/17 15:29	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	08/17/17 10:30	08/17/17 15:29	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	08/17/17 10:30	08/17/17 15:29	207-08-9	
Chrysene	**<0.013**	ug/L	0.066	0.013	1	08/17/17 10:30	08/17/17 15:29	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.051	0.010	1	08/17/17 10:30	08/17/17 15:29	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.054	0.011	1	08/17/17 10:30	08/17/17 15:29	206-44-0	
Fluorene	**<0.0081**	ug/L	0.040	0.0081	1	08/17/17 10:30	08/17/17 15:29	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.089	0.018	1	08/17/17 10:30	08/17/17 15:29	193-39-5	
1-Methylnaphthalene	**<0.0060**	ug/L	0.030	0.0060	1	08/17/17 10:30	08/17/17 15:29	90-12-0	
2-Methylnaphthalene	**<0.0049**	ug/L	0.025	0.0049	1	08/17/17 10:30	08/17/17 15:29	91-57-6	
Naphthalene	**<0.019**	ug/L	0.093	0.019	1	08/17/17 10:30	08/17/17 15:29	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.070	0.014	1	08/17/17 10:30	08/17/17 15:29	85-01-8	
Pyrene	**0.010J**	ug/L	0.039	0.0077	1	08/17/17 10:30	08/17/17 15:29	129-00-0	B
Total PAHs	**0.036**	ug/L			1	08/17/17 10:30	08/17/17 15:29		
Surrogates									
2-Fluorobiphenyl (S)	51	%	35-84		1	08/17/17 10:30	08/17/17 15:29	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-RINS-01 **Lab ID: 40155012002** Collected: 08/14/17 10:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
Terphenyl-d14 (S)	82	%	10-129		1	08/17/17 10:30	08/17/17 15:29	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		08/17/17 14:58	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		08/17/17 14:58	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		08/17/17 14:58	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		08/17/17 14:58	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/17/17 14:58	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		08/17/17 14:58	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		08/17/17 14:58	67-66-3	L1
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		08/17/17 14:58	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		08/17/17 14:58	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		08/17/17 14:58	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		08/17/17 14:58	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		08/17/17 14:58	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/17/17 14:58	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/17/17 14:58	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		08/17/17 14:58	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/17/17 14:58	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/17/17 14:58	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		08/17/17 14:58	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		08/17/17 14:58	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		08/17/17 14:58	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/17/17 14:58	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		08/17/17 14:58	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		08/17/17 14:58	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		08/17/17 14:58	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/17/17 14:58	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-RINS-01 **Lab ID: 40155012002** Collected: 08/14/17 10:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		08/17/17 14:58	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		08/17/17 14:58	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		08/17/17 14:58	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		08/17/17 14:58	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		08/17/17 14:58	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		08/17/17 14:58	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		08/17/17 14:58	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		08/17/17 14:58	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		08/17/17 14:58	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		08/17/17 14:58	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 14:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		08/17/17 14:58	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		08/17/17 14:58	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/17/17 14:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-01-0814 **Lab ID: 40155012003** Collected: 08/14/17 10:30 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.27**	ug/L	0.54	0.27	1	08/17/17 13:23	08/18/17 23:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.27**	ug/L	0.54	0.27	1	08/17/17 13:23	08/18/17 23:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.27**	ug/L	0.54	0.27	1	08/17/17 13:23	08/18/17 23:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.27**	ug/L	0.54	0.27	1	08/17/17 13:23	08/18/17 23:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.27**	ug/L	0.54	0.27	1	08/17/17 13:23	08/18/17 23:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.27**	ug/L	0.54	0.27	1	08/17/17 13:23	08/18/17 23:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.54	0.27	1	08/17/17 13:23	08/18/17 23:29	11096-82-5	
PCB, Total	**<0.27**	ug/L	0.54	0.27	1	08/17/17 13:23	08/18/17 23:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	48-123		1	08/17/17 13:23	08/18/17 23:29	877-09-8	
Decachlorobiphenyl (S)	56	%	35-125		1	08/17/17 13:23	08/18/17 23:29	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic	**<0.28**	ug/L	1.0	0.28	1	08/24/17 08:58	08/24/17 21:38	7440-38-2	
Barium	**28.3**	ug/L	1.1	0.34	1	08/24/17 08:58	08/24/17 21:38	7440-39-3	
Cadmium	**0.14J**	ug/L	1.0	0.081	1	08/24/17 08:58	08/24/17 21:38	7440-43-9	
Chromium	**<1.0**	ug/L	3.4	1.0	1	08/24/17 08:58	08/24/17 21:38	7440-47-3	
Lead	**<0.20**	ug/L	1.0	0.20	1	08/24/17 08:58	08/24/17 21:38	7439-92-1	
Selenium	**0.79J**	ug/L	1.1	0.32	1	08/24/17 08:58	08/24/17 21:38	7782-49-2	
Silver	**<0.10**	ug/L	0.50	0.10	1	08/24/17 08:58	08/24/17 21:38	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.13**	ug/L	0.42	0.13	1	08/21/17 12:45	08/22/17 08:51	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0059**	ug/L	0.029	0.0059	1	08/17/17 10:30	08/17/17 13:02	83-32-9	
Acenaphthylene	**<0.0048**	ug/L	0.024	0.0048	1	08/17/17 10:30	08/17/17 13:02	208-96-8	
Anthracene	**<0.010**	ug/L	0.051	0.010	1	08/17/17 10:30	08/17/17 13:02	120-12-7	
Benzo(a)anthracene	**<0.0073**	ug/L	0.037	0.0073	1	08/17/17 10:30	08/17/17 13:02	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.051	0.010	1	08/17/17 10:30	08/17/17 13:02	50-32-8	
Benzo(b)fluoranthene	**<0.0056**	ug/L	0.028	0.0056	1	08/17/17 10:30	08/17/17 13:02	205-99-2	
Benzo(g,h,i)perylene	**<0.0066**	ug/L	0.033	0.0066	1	08/17/17 10:30	08/17/17 13:02	191-24-2	
Benzo(k)fluoranthene	**<0.0073**	ug/L	0.037	0.0073	1	08/17/17 10:30	08/17/17 13:02	207-08-9	
Chrysene	**<0.013**	ug/L	0.063	0.013	1	08/17/17 10:30	08/17/17 13:02	218-01-9	
Dibenz(a,h)anthracene	**<0.0097**	ug/L	0.049	0.0097	1	08/17/17 10:30	08/17/17 13:02	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.052	0.010	1	08/17/17 10:30	08/17/17 13:02	206-44-0	
Fluorene	**<0.0077**	ug/L	0.039	0.0077	1	08/17/17 10:30	08/17/17 13:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.086	0.017	1	08/17/17 10:30	08/17/17 13:02	193-39-5	
1-Methylnaphthalene	**<0.0057**	ug/L	0.029	0.0057	1	08/17/17 10:30	08/17/17 13:02	90-12-0	
2-Methylnaphthalene	**<0.0048**	ug/L	0.024	0.0048	1	08/17/17 10:30	08/17/17 13:02	91-57-6	
Naphthalene	**<0.018**	ug/L	0.089	0.018	1	08/17/17 10:30	08/17/17 13:02	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.067	0.013	1	08/17/17 10:30	08/17/17 13:02	85-01-8	
Pyrene	**0.016J**	ug/L	0.037	0.0074	1	08/17/17 10:30	08/17/17 13:02	129-00-0	B
Total PAHs	**0.024**	ug/L			1	08/17/17 10:30	08/17/17 13:02		
Surrogates									
2-Fluorobiphenyl (S)	47	%	35-84		1	08/17/17 10:30	08/17/17 13:02	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-01-0814 **Lab ID: 40155012003** Collected: 08/14/17 10:30 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
Terphenyl-d14 (S)	80	%	10-129		1	08/17/17 10:30	08/17/17 13:02	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		08/16/17 17:09	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		08/16/17 17:09	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		08/16/17 17:09	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		08/16/17 17:09	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/16/17 17:09	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		08/16/17 17:09	75-00-3	M1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		08/16/17 17:09	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		08/16/17 17:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		08/16/17 17:09	96-12-8	M1
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		08/16/17 17:09	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		08/16/17 17:09	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		08/16/17 17:09	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/16/17 17:09	75-34-3	M1
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/16/17 17:09	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		08/16/17 17:09	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/16/17 17:09	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/16/17 17:09	156-60-5	M1
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		08/16/17 17:09	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		08/16/17 17:09	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		08/16/17 17:09	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/16/17 17:09	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		08/16/17 17:09	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		08/16/17 17:09	98-82-8	M1
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		08/16/17 17:09	75-09-2	M1
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/16/17 17:09	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-01-0814 **Lab ID: 40155012003** Collected: 08/14/17 10:30 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		08/16/17 17:09	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		08/16/17 17:09	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		08/16/17 17:09	79-34-5	M1
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		08/16/17 17:09	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		08/16/17 17:09	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		08/16/17 17:09	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		08/16/17 17:09	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		08/16/17 17:09	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		08/16/17 17:09	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		08/16/17 17:09	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		08/16/17 17:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		08/16/17 17:09	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		08/16/17 17:09	1868-53-7	
Toluene-d8 (S)	111	%	70-130		1		08/16/17 17:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-RINS-01 **Lab ID: 40155012004** Collected: 08/14/17 11:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/18/17 23:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/18/17 23:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/18/17 23:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/18/17 23:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/18/17 23:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/18/17 23:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/18/17 23:50	11096-82-5	
PCB, Total	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/18/17 23:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	48-123		1	08/17/17 13:23	08/18/17 23:50	877-09-8	
Decachlorobiphenyl (S)	61	%	35-125		1	08/17/17 13:23	08/18/17 23:50	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<0.28**	ug/L	1.0	0.28	1	08/24/17 09:08	08/24/17 20:57	7440-38-2	
Barium, Dissolved	**2.0**	ug/L	1.1	0.34	1	08/24/17 09:08	08/24/17 20:57	7440-39-3	
Cadmium, Dissolved	**<0.081**	ug/L	1.0	0.081	1	08/24/17 09:08	08/24/17 20:57	7440-43-9	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	08/24/17 09:08	08/24/17 20:57	7440-47-3	P4
Lead, Dissolved	**0.20J**	ug/L	1.0	0.20	1	08/24/17 09:08	08/24/17 20:57	7439-92-1	
Selenium, Dissolved	**<0.32**	ug/L	1.1	0.32	1	08/24/17 09:08	08/24/17 20:57	7782-49-2	
Silver, Dissolved	**<0.10**	ug/L	0.50	0.10	1	08/24/17 09:08	08/24/17 20:57	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	08/28/17 11:20	08/29/17 10:11	7439-97-6	P4
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0062**	ug/L	0.031	0.0062	1	08/17/17 10:30	08/17/17 15:45	83-32-9	
Acenaphthylene	**<0.0051**	ug/L	0.025	0.0051	1	08/17/17 10:30	08/17/17 15:45	208-96-8	
Anthracene	**<0.011**	ug/L	0.053	0.011	1	08/17/17 10:30	08/17/17 15:45	120-12-7	
Benzo(a)anthracene	**<0.0077**	ug/L	0.039	0.0077	1	08/17/17 10:30	08/17/17 15:45	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.054	0.011	1	08/17/17 10:30	08/17/17 15:45	50-32-8	
Benzo(b)fluoranthene	**<0.0059**	ug/L	0.029	0.0059	1	08/17/17 10:30	08/17/17 15:45	205-99-2	
Benzo(g,h,i)perylene	**<0.0069**	ug/L	0.035	0.0069	1	08/17/17 10:30	08/17/17 15:45	191-24-2	
Benzo(k)fluoranthene	**<0.0077**	ug/L	0.039	0.0077	1	08/17/17 10:30	08/17/17 15:45	207-08-9	
Chrysene	**<0.013**	ug/L	0.067	0.013	1	08/17/17 10:30	08/17/17 15:45	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.051	0.010	1	08/17/17 10:30	08/17/17 15:45	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.054	0.011	1	08/17/17 10:30	08/17/17 15:45	206-44-0	
Fluorene	**<0.0081**	ug/L	0.041	0.0081	1	08/17/17 10:30	08/17/17 15:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.090	0.018	1	08/17/17 10:30	08/17/17 15:45	193-39-5	
1-Methylnaphthalene	**<0.0060**	ug/L	0.030	0.0060	1	08/17/17 10:30	08/17/17 15:45	90-12-0	
2-Methylnaphthalene	**<0.0050**	ug/L	0.025	0.0050	1	08/17/17 10:30	08/17/17 15:45	91-57-6	
Naphthalene	**<0.019**	ug/L	0.094	0.019	1	08/17/17 10:30	08/17/17 15:45	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.070	0.014	1	08/17/17 10:30	08/17/17 15:45	85-01-8	
Pyrene	**0.0094J**	ug/L	0.039	0.0078	1	08/17/17 10:30	08/17/17 15:45	129-00-0	B
Total PAHs	**0.017**	ug/L			1	08/17/17 10:30	08/17/17 15:45		
Surrogates									
2-Fluorobiphenyl (S)	40	%	35-84		1	08/17/17 10:30	08/17/17 15:45	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-RINS-01 **Lab ID: 40155012004** Collected: 08/14/17 11:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
Terphenyl-d14 (S)	73	%	10-129		1	08/17/17 10:30	08/17/17 15:45	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		08/17/17 15:21	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		08/17/17 15:21	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		08/17/17 15:21	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		08/17/17 15:21	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:21	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		08/17/17 15:21	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		08/17/17 15:21	67-66-3	L1
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		08/17/17 15:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		08/17/17 15:21	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:21	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		08/17/17 15:21	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		08/17/17 15:21	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/17/17 15:21	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/17/17 15:21	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		08/17/17 15:21	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/17/17 15:21	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/17/17 15:21	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		08/17/17 15:21	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		08/17/17 15:21	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		08/17/17 15:21	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/17/17 15:21	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		08/17/17 15:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		08/17/17 15:21	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		08/17/17 15:21	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/17/17 15:21	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-RINS-01 **Lab ID: 40155012004** Collected: 08/14/17 11:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		08/17/17 15:21	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		08/17/17 15:21	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		08/17/17 15:21	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		08/17/17 15:21	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		08/17/17 15:21	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		08/17/17 15:21	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:21	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:21	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		08/17/17 15:21	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		08/17/17 15:21	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		08/17/17 15:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/17/17 15:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-04-17-19 **Lab ID: 40155012005** Collected: 08/14/17 12:20 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<26.5**	ug/kg	52.9	26.5	1	08/28/17 12:44	08/29/17 08:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<26.5**	ug/kg	52.9	26.5	1	08/28/17 12:44	08/29/17 08:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<26.5**	ug/kg	52.9	26.5	1	08/28/17 12:44	08/29/17 08:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<26.5**	ug/kg	52.9	26.5	1	08/28/17 12:44	08/29/17 08:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**<26.5**	ug/kg	52.9	26.5	1	08/28/17 12:44	08/29/17 08:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**<26.5**	ug/kg	52.9	26.5	1	08/28/17 12:44	08/29/17 08:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**<26.5**	ug/kg	52.9	26.5	1	08/28/17 12:44	08/29/17 08:04	11096-82-5	
PCB, Total	**<26.5**	ug/kg	52.9	26.5	1	08/28/17 12:44	08/29/17 08:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	50-102		1	08/28/17 12:44	08/29/17 08:04	877-09-8	
Decachlorobiphenyl (S)	83	%	53-105		1	08/28/17 12:44	08/29/17 08:04	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**1.1J**	mg/kg	5.3	1.1	1	08/22/17 11:36	08/23/17 16:18	7440-38-2	
Barium	**9.8**	mg/kg	0.53	0.16	1	08/22/17 11:36	08/23/17 16:18	7440-39-3	
Cadmium	**<0.14**	mg/kg	0.53	0.14	1	08/22/17 11:36	08/23/17 16:18	7440-43-9	
Chromium	**6.2**	mg/kg	1.1	0.29	1	08/22/17 11:36	08/23/17 16:18	7440-47-3	
Lead	**1.6**	mg/kg	1.4	0.46	1	08/22/17 11:36	08/23/17 16:18	7439-92-1	
Selenium	**<1.2**	mg/kg	5.3	1.2	1	08/22/17 11:36	08/23/17 16:18	7782-49-2	
Silver	**<0.36**	mg/kg	1.1	0.36	1	08/22/17 11:36	08/23/17 16:18	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.012**	mg/kg	0.039	0.012	1	08/28/17 06:57	08/28/17 10:44	7439-97-6	1q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.1**	ug/kg	13.7	4.1	1	08/23/17 08:00	08/24/17 12:44	83-32-9	
Acenaphthylene	**<3.5**	ug/kg	11.7	3.5	1	08/23/17 08:00	08/24/17 12:44	208-96-8	
Anthracene	**<6.1**	ug/kg	20.1	6.1	1	08/23/17 08:00	08/24/17 12:44	120-12-7	
Benzo(a)anthracene	**<3.4**	ug/kg	11.2	3.4	1	08/23/17 08:00	08/24/17 12:44	56-55-3	
Benzo(a)pyrene	**<2.7**	ug/kg	8.9	2.7	1	08/23/17 08:00	08/24/17 12:44	50-32-8	
Benzo(b)fluoranthene	**<3.0**	ug/kg	10	3.0	1	08/23/17 08:00	08/24/17 12:44	205-99-2	
Benzo(g,h,i)perylene	**<2.2**	ug/kg	7.2	2.2	1	08/23/17 08:00	08/24/17 12:44	191-24-2	
Benzo(k)fluoranthene	**<2.7**	ug/kg	8.9	2.7	1	08/23/17 08:00	08/24/17 12:44	207-08-9	
Chrysene	**<3.6**	ug/kg	11.9	3.6	1	08/23/17 08:00	08/24/17 12:44	218-01-9	
Dibenz(a,h)anthracene	**<2.4**	ug/kg	7.9	2.4	1	08/23/17 08:00	08/24/17 12:44	53-70-3	
Fluoranthene	**<5.5**	ug/kg	18.4	5.5	1	08/23/17 08:00	08/24/17 12:44	206-44-0	
Fluorene	**<4.4**	ug/kg	14.6	4.4	1	08/23/17 08:00	08/24/17 12:44	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.3**	ug/kg	7.8	2.3	1	08/23/17 08:00	08/24/17 12:44	193-39-5	
1-Methylnaphthalene	**<4.3**	ug/kg	14.2	4.3	1	08/23/17 08:00	08/24/17 12:44	90-12-0	
2-Methylnaphthalene	**<5.3**	ug/kg	17.7	5.3	1	08/23/17 08:00	08/24/17 12:44	91-57-6	
Naphthalene	**<8.9**	ug/kg	29.8	8.9	1	08/23/17 08:00	08/24/17 12:44	91-20-3	
Phenanthrene	**<12.3**	ug/kg	41.1	12.3	1	08/23/17 08:00	08/24/17 12:44	85-01-8	
Pyrene	**<4.8**	ug/kg	15.9	4.8	1	08/23/17 08:00	08/24/17 12:44	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	38	%	19-96		1	08/23/17 08:00	08/24/17 12:44	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-04-17-19 **Lab ID: 40155012005** Collected: 08/14/17 12:20 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Surrogates									
Terphenyl-d14 (S)	55	%	31-98		1	08/23/17 08:00	08/24/17 12:44	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/17/17 06:45	08/17/17 13:01	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/17/17 06:45	08/17/17 13:01	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/17/17 06:45	08/17/17 13:01	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/17/17 06:45	08/17/17 13:01	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/17/17 06:45	08/17/17 13:01	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	98-82-8	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-04-17-19 **Lab ID: 40155012005** Collected: 08/14/17 12:20 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/17/17 06:45	08/17/17 13:01	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/17/17 06:45	08/17/17 13:01	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 13:01	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	132	%	68-130		1	08/17/17 06:45	08/17/17 13:01	1868-53-7	3q
Toluene-d8 (S)	129	%	68-149		1	08/17/17 06:45	08/17/17 13:01	2037-26-5	
4-Bromofluorobenzene (S)	110	%	58-141		1	08/17/17 06:45	08/17/17 13:01	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.5**	%	0.10	0.10	1		08/18/17 16:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-01-02-04 **Lab ID: 40155012006** Collected: 08/14/17 13:30 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<29.1**	ug/kg	58.2	29.1	1	08/28/17 12:44	08/29/17 08:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<29.1**	ug/kg	58.2	29.1	1	08/28/17 12:44	08/29/17 08:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<29.1**	ug/kg	58.2	29.1	1	08/28/17 12:44	08/29/17 08:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<29.1**	ug/kg	58.2	29.1	1	08/28/17 12:44	08/29/17 08:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**<29.1**	ug/kg	58.2	29.1	1	08/28/17 12:44	08/29/17 08:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**<29.1**	ug/kg	58.2	29.1	1	08/28/17 12:44	08/29/17 08:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**<29.1**	ug/kg	58.2	29.1	1	08/28/17 12:44	08/29/17 08:40	11096-82-5	
PCB, Total	**<29.1**	ug/kg	58.2	29.1	1	08/28/17 12:44	08/29/17 08:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	50-102		1	08/28/17 12:44	08/29/17 08:40	877-09-8	
Decachlorobiphenyl (S)	88	%	53-105		1	08/28/17 12:44	08/29/17 08:40	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**2.8J**	mg/kg	5.7	1.2	1	08/22/17 11:36	08/23/17 16:25	7440-38-2	
Barium	**29.3**	mg/kg	0.57	0.17	1	08/22/17 11:36	08/23/17 16:25	7440-39-3	
Cadmium	**<0.15**	mg/kg	0.57	0.15	1	08/22/17 11:36	08/23/17 16:25	7440-43-9	
Chromium	**20.0**	mg/kg	1.1	0.32	1	08/22/17 11:36	08/23/17 16:25	7440-47-3	
Lead	**4.7**	mg/kg	1.5	0.50	1	08/22/17 11:36	08/23/17 16:25	7439-92-1	
Selenium	**<1.3**	mg/kg	5.7	1.3	1	08/22/17 11:36	08/23/17 16:25	7782-49-2	
Silver	**<0.40**	mg/kg	1.1	0.40	1	08/22/17 11:36	08/23/17 16:25	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.012**	mg/kg	0.040	0.012	1	08/28/17 06:57	08/28/17 10:51	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.1**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-01-01-02 **Lab ID: 40155012007** Collected: 08/14/17 13:25 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<27.0**	ug/kg	54.0	27.0	1	08/28/17 12:44	08/29/17 08:57	12674-11-2	
PCB-1221 (Aroclor 1221)	**<27.0**	ug/kg	54.0	27.0	1	08/28/17 12:44	08/29/17 08:57	11104-28-2	
PCB-1232 (Aroclor 1232)	**<27.0**	ug/kg	54.0	27.0	1	08/28/17 12:44	08/29/17 08:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**<27.0**	ug/kg	54.0	27.0	1	08/28/17 12:44	08/29/17 08:57	53469-21-9	
PCB-1248 (Aroclor 1248)	**<27.0**	ug/kg	54.0	27.0	1	08/28/17 12:44	08/29/17 08:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**32.9J**	ug/kg	54.0	27.0	1	08/28/17 12:44	08/29/17 08:57	11097-69-1	
PCB-1260 (Aroclor 1260)	**<27.0**	ug/kg	54.0	27.0	1	08/28/17 12:44	08/29/17 08:57	11096-82-5	
PCB, Total	**32.9J**	ug/kg	54.0	27.0	1	08/28/17 12:44	08/29/17 08:57	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	50-102		1	08/28/17 12:44	08/29/17 08:57	877-09-8	
Decachlorobiphenyl (S)	90	%	53-105		1	08/28/17 12:44	08/29/17 08:57	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**1.9J**	mg/kg	5.0	1.0	1	08/22/17 11:36	08/23/17 16:28	7440-38-2	
Barium	**25.1**	mg/kg	0.50	0.15	1	08/22/17 11:36	08/23/17 16:28	7440-39-3	
Cadmium	**<0.13**	mg/kg	0.50	0.13	1	08/22/17 11:36	08/23/17 16:28	7440-43-9	
Chromium	**13.6**	mg/kg	1.0	0.28	1	08/22/17 11:36	08/23/17 16:28	7440-47-3	
Lead	**5.8**	mg/kg	1.3	0.43	1	08/22/17 11:36	08/23/17 16:28	7439-92-1	
Selenium	**<1.1**	mg/kg	5.0	1.1	1	08/22/17 11:36	08/23/17 16:28	7782-49-2	
Silver	**<0.34**	mg/kg	1.0	0.34	1	08/22/17 11:36	08/23/17 16:28	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.012**	mg/kg	0.038	0.012	1	08/28/17 06:57	08/28/17 10:53	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.5**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-01-06-08 **Lab ID: 40155012008** Collected: 08/14/17 13:40 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<25.8**	ug/kg	51.7	25.8	1	08/28/17 12:44	08/29/17 09:15	12674-11-2	
PCB-1221 (Aroclor 1221)	**<25.8**	ug/kg	51.7	25.8	1	08/28/17 12:44	08/29/17 09:15	11104-28-2	
PCB-1232 (Aroclor 1232)	**<25.8**	ug/kg	51.7	25.8	1	08/28/17 12:44	08/29/17 09:15	11141-16-5	
PCB-1242 (Aroclor 1242)	**<25.8**	ug/kg	51.7	25.8	1	08/28/17 12:44	08/29/17 09:15	53469-21-9	
PCB-1248 (Aroclor 1248)	**<25.8**	ug/kg	51.7	25.8	1	08/28/17 12:44	08/29/17 09:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**<25.8**	ug/kg	51.7	25.8	1	08/28/17 12:44	08/29/17 09:15	11097-69-1	
PCB-1260 (Aroclor 1260)	**<25.8**	ug/kg	51.7	25.8	1	08/28/17 12:44	08/29/17 09:15	11096-82-5	
PCB, Total	**<25.8**	ug/kg	51.7	25.8	1	08/28/17 12:44	08/29/17 09:15	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	50-102		1	08/28/17 12:44	08/29/17 09:15	877-09-8	
Decachlorobiphenyl (S)	90	%	53-105		1	08/28/17 12:44	08/29/17 09:15	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.1**	mg/kg	5.1	1.1	1	08/22/17 11:36	08/23/17 16:30	7440-38-2	
Barium	**4.1**	mg/kg	0.51	0.15	1	08/22/17 11:36	08/23/17 16:30	7440-39-3	
Cadmium	**<0.14**	mg/kg	0.51	0.14	1	08/22/17 11:36	08/23/17 16:30	7440-43-9	
Chromium	**3.4**	mg/kg	1.0	0.29	1	08/22/17 11:36	08/23/17 16:30	7440-47-3	
Lead	**1.5**	mg/kg	1.3	0.45	1	08/22/17 11:36	08/23/17 16:30	7439-92-1	
Selenium	**<1.1**	mg/kg	5.1	1.1	1	08/22/17 11:36	08/23/17 16:30	7782-49-2	
Silver	**<0.35**	mg/kg	1.0	0.35	1	08/22/17 11:36	08/23/17 16:30	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.010**	mg/kg	0.035	0.010	1	08/28/17 06:57	08/28/17 10:56	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.3**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-02-01-02 **Lab ID: 40155012009** Collected: 08/14/17 13:55 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<88.4**	ug/kg	177	88.4	3	08/28/17 12:44	08/29/17 09:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<88.4**	ug/kg	177	88.4	3	08/28/17 12:44	08/29/17 09:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<88.4**	ug/kg	177	88.4	3	08/28/17 12:44	08/29/17 09:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<88.4**	ug/kg	177	88.4	3	08/28/17 12:44	08/29/17 09:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**1190**	ug/kg	177	88.4	3	08/28/17 12:44	08/29/17 09:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**939**	ug/kg	177	88.4	3	08/28/17 12:44	08/29/17 09:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**706**	ug/kg	177	88.4	3	08/28/17 12:44	08/29/17 09:33	11096-82-5	
PCB, Total	**2840**	ug/kg	177	88.4	3	08/28/17 12:44	08/29/17 09:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	50-102		3	08/28/17 12:44	08/29/17 09:33	877-09-8	
Decachlorobiphenyl (S)	81	%	53-105		3	08/28/17 12:44	08/29/17 09:33	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**4.4J**	mg/kg	5.7	1.2	1	08/22/17 11:36	08/23/17 16:33	7440-38-2	
Barium	**246**	mg/kg	0.57	0.17	1	08/22/17 11:36	08/23/17 16:33	7440-39-3	
Cadmium	**10.0**	mg/kg	0.57	0.15	1	08/22/17 11:36	08/23/17 16:33	7440-43-9	
Chromium	**65.5**	mg/kg	1.1	0.32	1	08/22/17 11:36	08/23/17 16:33	7440-47-3	
Lead	**294**	mg/kg	1.5	0.50	1	08/22/17 11:36	08/23/17 16:33	7439-92-1	
Selenium	**<1.3**	mg/kg	5.7	1.3	1	08/22/17 11:36	08/23/17 16:33	7782-49-2	
Silver	**2.5**	mg/kg	1.1	0.39	1	08/22/17 11:36	08/23/17 16:33	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**4.4**	mg/kg	0.21	0.062	5	08/28/17 06:57	08/28/17 13:00	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.1**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-02-02-04 **Lab ID: 40155012010** Collected: 08/14/17 14:00 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<28.4**	ug/kg	56.9	28.4	1	08/28/17 12:44	08/29/17 09:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<28.4**	ug/kg	56.9	28.4	1	08/28/17 12:44	08/29/17 09:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<28.4**	ug/kg	56.9	28.4	1	08/28/17 12:44	08/29/17 09:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<28.4**	ug/kg	56.9	28.4	1	08/28/17 12:44	08/29/17 09:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**<28.4**	ug/kg	56.9	28.4	1	08/28/17 12:44	08/29/17 09:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**<28.4**	ug/kg	56.9	28.4	1	08/28/17 12:44	08/29/17 09:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**<28.4**	ug/kg	56.9	28.4	1	08/28/17 12:44	08/29/17 09:51	11096-82-5	
PCB, Total	**<28.4**	ug/kg	56.9	28.4	1	08/28/17 12:44	08/29/17 09:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	50-102		1	08/28/17 12:44	08/29/17 09:51	877-09-8	
Decachlorobiphenyl (S)	87	%	53-105		1	08/28/17 12:44	08/29/17 09:51	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**2.0J**	mg/kg	5.4	1.1	1	08/22/17 11:36	08/23/17 16:40	7440-38-2	
Barium	**39.4**	mg/kg	0.54	0.16	1	08/22/17 11:36	08/23/17 16:40	7440-39-3	
Cadmium	**<0.14**	mg/kg	0.54	0.14	1	08/22/17 11:36	08/23/17 16:40	7440-43-9	
Chromium	**11.9**	mg/kg	1.1	0.30	1	08/22/17 11:36	08/23/17 16:40	7440-47-3	
Lead	**5.0**	mg/kg	1.4	0.47	1	08/22/17 11:36	08/23/17 16:40	7439-92-1	
Selenium	**<1.2**	mg/kg	5.4	1.2	1	08/22/17 11:36	08/23/17 16:40	7782-49-2	
Silver	**<0.37**	mg/kg	1.1	0.37	1	08/22/17 11:36	08/23/17 16:40	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.012**	mg/kg	0.040	0.012	1	08/28/17 06:57	08/28/17 11:08	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.1**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-02-05-07 **Lab ID: 40155012011** Collected: 08/14/17 14:05 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<27.2**	ug/kg	54.4	27.2	1	08/28/17 12:44	08/29/17 10:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<27.2**	ug/kg	54.4	27.2	1	08/28/17 12:44	08/29/17 10:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<27.2**	ug/kg	54.4	27.2	1	08/28/17 12:44	08/29/17 10:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<27.2**	ug/kg	54.4	27.2	1	08/28/17 12:44	08/29/17 10:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**<27.2**	ug/kg	54.4	27.2	1	08/28/17 12:44	08/29/17 10:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**<27.2**	ug/kg	54.4	27.2	1	08/28/17 12:44	08/29/17 10:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**<27.2**	ug/kg	54.4	27.2	1	08/28/17 12:44	08/29/17 10:09	11096-82-5	
PCB, Total	**<27.2**	ug/kg	54.4	27.2	1	08/28/17 12:44	08/29/17 10:09	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	50-102		1	08/28/17 12:44	08/29/17 10:09	877-09-8	
Decachlorobiphenyl (S)	85	%	53-105		1	08/28/17 12:44	08/29/17 10:09	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**1.9J**	mg/kg	5.1	1.1	1	08/22/17 11:36	08/23/17 16:42	7440-38-2	
Barium	**52.7**	mg/kg	0.51	0.15	1	08/22/17 11:36	08/23/17 16:42	7440-39-3	
Cadmium	**<0.14**	mg/kg	0.51	0.14	1	08/22/17 11:36	08/23/17 16:42	7440-43-9	
Chromium	**21.5**	mg/kg	1.0	0.29	1	08/22/17 11:36	08/23/17 16:42	7440-47-3	
Lead	**4.2**	mg/kg	1.3	0.44	1	08/22/17 11:36	08/23/17 16:42	7439-92-1	
Selenium	**<1.1**	mg/kg	5.1	1.1	1	08/22/17 11:36	08/23/17 16:42	7782-49-2	
Silver	**<0.35**	mg/kg	1.0	0.35	1	08/22/17 11:36	08/23/17 16:42	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.012**	mg/kg	0.040	0.012	1	08/28/17 06:57	08/28/17 11:15	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.1**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-DUP-01 **Lab ID: 40155012012** Collected: 08/14/17 12:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/19/17 00:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/19/17 00:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/19/17 00:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/19/17 00:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/19/17 00:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/19/17 00:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/19/17 00:12	11096-82-5	
PCB, Total	**<0.26**	ug/L	0.52	0.26	1	08/17/17 13:23	08/19/17 00:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	48-123		1	08/17/17 13:23	08/19/17 00:12	877-09-8	
Decachlorobiphenyl (S)	61	%	35-125		1	08/17/17 13:23	08/19/17 00:12	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic	**0.47J**	ug/L	1.0	0.28	1	08/24/17 08:58	08/24/17 22:05	7440-38-2	
Barium	**28.3**	ug/L	1.1	0.34	1	08/24/17 08:58	08/24/17 22:05	7440-39-3	
Cadmium	**0.28J**	ug/L	1.0	0.081	1	08/24/17 08:58	08/24/17 22:05	7440-43-9	
Chromium	**<1.0**	ug/L	3.4	1.0	1	08/24/17 08:58	08/24/17 22:05	7440-47-3	
Lead	**0.33J**	ug/L	1.0	0.20	1	08/24/17 08:58	08/24/17 22:05	7439-92-1	
Selenium	**1.2**	ug/L	1.1	0.32	1	08/24/17 08:58	08/24/17 22:05	7782-49-2	
Silver	**0.12J**	ug/L	0.50	0.10	1	08/24/17 08:58	08/24/17 22:05	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.13**	ug/L	0.42	0.13	1	08/21/17 12:45	08/22/17 09:03	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0066**	ug/L	0.033	0.0066	1	08/17/17 10:30	08/17/17 16:02	83-32-9	
Acenaphthylene	**<0.0054**	ug/L	0.027	0.0054	1	08/17/17 10:30	08/17/17 16:02	208-96-8	
Anthracene	**<0.011**	ug/L	0.057	0.011	1	08/17/17 10:30	08/17/17 16:02	120-12-7	
Benzo(a)anthracene	**<0.0082**	ug/L	0.041	0.0082	1	08/17/17 10:30	08/17/17 16:02	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.057	0.011	1	08/17/17 10:30	08/17/17 16:02	50-32-8	
Benzo(b)fluoranthene	**<0.0062**	ug/L	0.031	0.0062	1	08/17/17 10:30	08/17/17 16:02	205-99-2	
Benzo(g,h,i)perylene	**<0.0074**	ug/L	0.037	0.0074	1	08/17/17 10:30	08/17/17 16:02	191-24-2	
Benzo(k)fluoranthene	**<0.0082**	ug/L	0.041	0.0082	1	08/17/17 10:30	08/17/17 16:02	207-08-9	
Chrysene	**<0.014**	ug/L	0.071	0.014	1	08/17/17 10:30	08/17/17 16:02	218-01-9	
Dibenz(a,h)anthracene	**<0.011**	ug/L	0.054	0.011	1	08/17/17 10:30	08/17/17 16:02	53-70-3	
Fluoranthene	**<0.012**	ug/L	0.058	0.012	1	08/17/17 10:30	08/17/17 16:02	206-44-0	
Fluorene	**<0.0087**	ug/L	0.043	0.0087	1	08/17/17 10:30	08/17/17 16:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.019**	ug/L	0.096	0.019	1	08/17/17 10:30	08/17/17 16:02	193-39-5	
1-Methylnaphthalene	**<0.0064**	ug/L	0.032	0.0064	1	08/17/17 10:30	08/17/17 16:02	90-12-0	
2-Methylnaphthalene	**<0.0053**	ug/L	0.027	0.0053	1	08/17/17 10:30	08/17/17 16:02	91-57-6	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	08/17/17 10:30	08/17/17 16:02	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.075	0.015	1	08/17/17 10:30	08/17/17 16:02	85-01-8	
Pyrene	**0.0087J**	ug/L	0.042	0.0083	1	08/17/17 10:30	08/17/17 16:02	129-00-0	B
Total PAHs	**0.014**	ug/L			1	08/17/17 10:30	08/17/17 16:02		
Surrogates									
2-Fluorobiphenyl (S)	45	%	35-84		1	08/17/17 10:30	08/17/17 16:02	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-DUP-01 **Lab ID: 40155012012** Collected: 08/14/17 12:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
Terphenyl-d14 (S)	71	%	10-129		1	08/17/17 10:30	08/17/17 16:02	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		08/17/17 15:44	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		08/17/17 15:44	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		08/17/17 15:44	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		08/17/17 15:44	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:44	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		08/17/17 15:44	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		08/17/17 15:44	67-66-3	L1
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		08/17/17 15:44	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		08/17/17 15:44	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:44	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		08/17/17 15:44	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		08/17/17 15:44	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/17/17 15:44	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/17/17 15:44	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		08/17/17 15:44	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/17/17 15:44	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/17/17 15:44	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		08/17/17 15:44	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		08/17/17 15:44	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		08/17/17 15:44	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/17/17 15:44	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		08/17/17 15:44	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		08/17/17 15:44	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		08/17/17 15:44	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/17/17 15:44	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-DUP-01 **Lab ID: 40155012012** Collected: 08/14/17 12:00 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		08/17/17 15:44	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		08/17/17 15:44	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		08/17/17 15:44	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		08/17/17 15:44	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		08/17/17 15:44	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		08/17/17 15:44	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:44	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		08/17/17 15:44	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		08/17/17 15:44	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 15:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		08/17/17 15:44	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		08/17/17 15:44	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		08/17/17 15:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-DUP-01 **Lab ID: 40155012013** Collected: 08/14/17 12:01 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<28.6**	ug/kg	57.3	28.6	1	08/28/17 12:44	08/29/17 10:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<28.6**	ug/kg	57.3	28.6	1	08/28/17 12:44	08/29/17 10:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<28.6**	ug/kg	57.3	28.6	1	08/28/17 12:44	08/29/17 10:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<28.6**	ug/kg	57.3	28.6	1	08/28/17 12:44	08/29/17 10:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**<28.6**	ug/kg	57.3	28.6	1	08/28/17 12:44	08/29/17 10:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**<28.6**	ug/kg	57.3	28.6	1	08/28/17 12:44	08/29/17 10:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<28.6**	ug/kg	57.3	28.6	1	08/28/17 12:44	08/29/17 10:26	11096-82-5	
PCB, Total	**<28.6**	ug/kg	57.3	28.6	1	08/28/17 12:44	08/29/17 10:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	50-102		1	08/28/17 12:44	08/29/17 10:26	877-09-8	
Decachlorobiphenyl (S)	90	%	53-105		1	08/28/17 12:44	08/29/17 10:26	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**1.8J**	mg/kg	5.6	1.2	1	08/22/17 11:36	08/23/17 16:44	7440-38-2	
Barium	**20.9**	mg/kg	0.56	0.17	1	08/22/17 11:36	08/23/17 16:44	7440-39-3	
Cadmium	**<0.15**	mg/kg	0.56	0.15	1	08/22/17 11:36	08/23/17 16:44	7440-43-9	
Chromium	**10.4**	mg/kg	1.1	0.31	1	08/22/17 11:36	08/23/17 16:44	7440-47-3	
Lead	**2.5**	mg/kg	1.4	0.48	1	08/22/17 11:36	08/23/17 16:44	7439-92-1	
Selenium	**<1.2**	mg/kg	5.6	1.2	1	08/22/17 11:36	08/23/17 16:44	7782-49-2	
Silver	**<0.38**	mg/kg	1.1	0.38	1	08/22/17 11:36	08/23/17 16:44	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.012**	mg/kg	0.040	0.012	1	08/28/17 06:57	08/28/17 11:17	7439-97-6	1q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.4**	ug/kg	14.8	4.4	1	08/23/17 08:00	08/24/17 16:12	83-32-9	
Acenaphthylene	**<3.8**	ug/kg	12.6	3.8	1	08/23/17 08:00	08/24/17 16:12	208-96-8	
Anthracene	**<6.5**	ug/kg	21.8	6.5	1	08/23/17 08:00	08/24/17 16:12	120-12-7	
Benzo(a)anthracene	**<3.6**	ug/kg	12.1	3.6	1	08/23/17 08:00	08/24/17 16:12	56-55-3	
Benzo(a)pyrene	**<2.9**	ug/kg	9.6	2.9	1	08/23/17 08:00	08/24/17 16:12	50-32-8	
Benzo(b)fluoranthene	**<3.2**	ug/kg	10.8	3.2	1	08/23/17 08:00	08/24/17 16:12	205-99-2	
Benzo(g,h,i)perylene	**<2.3**	ug/kg	7.8	2.3	1	08/23/17 08:00	08/24/17 16:12	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.6	2.9	1	08/23/17 08:00	08/24/17 16:12	207-08-9	
Chrysene	**<3.9**	ug/kg	12.8	3.9	1	08/23/17 08:00	08/24/17 16:12	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.5	2.6	1	08/23/17 08:00	08/24/17 16:12	53-70-3	
Fluoranthene	**<6.0**	ug/kg	19.9	6.0	1	08/23/17 08:00	08/24/17 16:12	206-44-0	
Fluorene	**<4.7**	ug/kg	15.8	4.7	1	08/23/17 08:00	08/24/17 16:12	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.5**	ug/kg	8.4	2.5	1	08/23/17 08:00	08/24/17 16:12	193-39-5	
1-Methylnaphthalene	**<4.6**	ug/kg	15.4	4.6	1	08/23/17 08:00	08/24/17 16:12	90-12-0	
2-Methylnaphthalene	**<5.7**	ug/kg	19.1	5.7	1	08/23/17 08:00	08/24/17 16:12	91-57-6	
Naphthalene	**<9.6**	ug/kg	32.2	9.6	1	08/23/17 08:00	08/24/17 16:12	91-20-3	
Phenanthrene	**<13.3**	ug/kg	44.5	13.3	1	08/23/17 08:00	08/24/17 16:12	85-01-8	
Pyrene	**<5.2**	ug/kg	17.2	5.2	1	08/23/17 08:00	08/24/17 16:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	19-96		1	08/23/17 08:00	08/24/17 16:12	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-DUP-01 **Lab ID: 40155012013** Collected: 08/14/17 12:01 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Surrogates									
Terphenyl-d14 (S)	58	%	31-98		1	08/23/17 08:00	08/24/17 16:12	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/17/17 06:45	08/17/17 12:38	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/17/17 06:45	08/17/17 12:38	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/17/17 06:45	08/17/17 12:38	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/17/17 06:45	08/17/17 12:38	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/17/17 06:45	08/17/17 12:38	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	98-82-8	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-DUP-01 **Lab ID: 40155012013** Collected: 08/14/17 12:01 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/17/17 06:45	08/17/17 12:38	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/17/17 06:45	08/17/17 12:38	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/17/17 06:45	08/17/17 12:38	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	129	%	68-130		1	08/17/17 06:45	08/17/17 12:38	1868-53-7	
Toluene-d8 (S)	125	%	68-149		1	08/17/17 06:45	08/17/17 12:38	2037-26-5	
4-Bromofluorobenzene (S)	108	%	58-141		1	08/17/17 06:45	08/17/17 12:38	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.7**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-03-01-02 **Lab ID: 40155012014** Collected: 08/14/17 14:25 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<26.2**	ug/kg	52.3	26.2	1	08/28/17 12:44	08/29/17 10:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<26.2**	ug/kg	52.3	26.2	1	08/28/17 12:44	08/29/17 10:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<26.2**	ug/kg	52.3	26.2	1	08/28/17 12:44	08/29/17 10:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<26.2**	ug/kg	52.3	26.2	1	08/28/17 12:44	08/29/17 10:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**<26.2**	ug/kg	52.3	26.2	1	08/28/17 12:44	08/29/17 10:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**<26.2**	ug/kg	52.3	26.2	1	08/28/17 12:44	08/29/17 10:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**<26.2**	ug/kg	52.3	26.2	1	08/28/17 12:44	08/29/17 10:44	11096-82-5	
PCB, Total	**<26.2**	ug/kg	52.3	26.2	1	08/28/17 12:44	08/29/17 10:44	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	50-102		1	08/28/17 12:44	08/29/17 10:44	877-09-8	
Decachlorobiphenyl (S)	88	%	53-105		1	08/28/17 12:44	08/29/17 10:44	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.1**	mg/kg	5.2	1.1	1	08/22/17 11:36	08/23/17 16:47	7440-38-2	
Barium	**28.0**	mg/kg	0.52	0.16	1	08/22/17 11:36	08/23/17 16:47	7440-39-3	
Cadmium	**<0.14**	mg/kg	0.52	0.14	1	08/22/17 11:36	08/23/17 16:47	7440-43-9	
Chromium	**13.0**	mg/kg	1.0	0.29	1	08/22/17 11:36	08/23/17 16:47	7440-47-3	
Lead	**4.2**	mg/kg	1.3	0.45	1	08/22/17 11:36	08/23/17 16:47	7439-92-1	
Selenium	**<1.1**	mg/kg	5.2	1.1	1	08/22/17 11:36	08/23/17 16:47	7782-49-2	
Silver	**<0.36**	mg/kg	1.0	0.36	1	08/22/17 11:36	08/23/17 16:47	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.011**	mg/kg	0.035	0.011	1	08/28/17 06:57	08/28/17 11:19	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.4**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-03-02-04 **Lab ID: 40155012015** Collected: 08/14/17 14:30 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<25.5**	ug/kg	51.1	25.5	1	08/28/17 12:44	08/29/17 11:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<25.5**	ug/kg	51.1	25.5	1	08/28/17 12:44	08/29/17 11:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<25.5**	ug/kg	51.1	25.5	1	08/28/17 12:44	08/29/17 11:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<25.5**	ug/kg	51.1	25.5	1	08/28/17 12:44	08/29/17 11:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**<25.5**	ug/kg	51.1	25.5	1	08/28/17 12:44	08/29/17 11:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**<25.5**	ug/kg	51.1	25.5	1	08/28/17 12:44	08/29/17 11:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<25.5**	ug/kg	51.1	25.5	1	08/28/17 12:44	08/29/17 11:02	11096-82-5	
PCB, Total	**<25.5**	ug/kg	51.1	25.5	1	08/28/17 12:44	08/29/17 11:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	50-102		1	08/28/17 12:44	08/29/17 11:02	877-09-8	
Decachlorobiphenyl (S)	88	%	53-105		1	08/28/17 12:44	08/29/17 11:02	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.0**	mg/kg	4.8	1.0	1	08/22/17 11:36	08/23/17 16:49	7440-38-2	
Barium	**13.6**	mg/kg	0.48	0.15	1	08/22/17 11:36	08/23/17 16:49	7440-39-3	
Cadmium	**<0.13**	mg/kg	0.48	0.13	1	08/22/17 11:36	08/23/17 16:49	7440-43-9	
Chromium	**7.1**	mg/kg	0.97	0.27	1	08/22/17 11:36	08/23/17 16:49	7440-47-3	
Lead	**1.6**	mg/kg	1.3	0.42	1	08/22/17 11:36	08/23/17 16:49	7439-92-1	
Selenium	**<1.1**	mg/kg	4.8	1.1	1	08/22/17 11:36	08/23/17 16:49	7782-49-2	
Silver	**<0.33**	mg/kg	0.97	0.33	1	08/22/17 11:36	08/23/17 16:49	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.010**	mg/kg	0.034	0.010	1	08/28/17 06:57	08/28/17 11:22	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.1**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-03-05-07 **Lab ID: 40155012016** Collected: 08/14/17 14:35 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<25.8**	ug/kg	51.6	25.8	1	08/28/17 12:44	08/29/17 11:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<25.8**	ug/kg	51.6	25.8	1	08/28/17 12:44	08/29/17 11:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<25.8**	ug/kg	51.6	25.8	1	08/28/17 12:44	08/29/17 11:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<25.8**	ug/kg	51.6	25.8	1	08/28/17 12:44	08/29/17 11:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**<25.8**	ug/kg	51.6	25.8	1	08/28/17 12:44	08/29/17 11:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**<25.8**	ug/kg	51.6	25.8	1	08/28/17 12:44	08/29/17 11:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<25.8**	ug/kg	51.6	25.8	1	08/28/17 12:44	08/29/17 11:20	11096-82-5	
PCB, Total	**<25.8**	ug/kg	51.6	25.8	1	08/28/17 12:44	08/29/17 11:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	50-102		1	08/28/17 12:44	08/29/17 11:20	877-09-8	
Decachlorobiphenyl (S)	86	%	53-105		1	08/28/17 12:44	08/29/17 11:20	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.1**	mg/kg	5.1	1.1	1	08/22/17 11:36	08/23/17 16:51	7440-38-2	
Barium	**13.4**	mg/kg	0.51	0.15	1	08/22/17 11:36	08/23/17 16:51	7440-39-3	
Cadmium	**<0.14**	mg/kg	0.51	0.14	1	08/22/17 11:36	08/23/17 16:51	7440-43-9	
Chromium	**7.6**	mg/kg	1.0	0.29	1	08/22/17 11:36	08/23/17 16:51	7440-47-3	
Lead	**1.7**	mg/kg	1.3	0.44	1	08/22/17 11:36	08/23/17 16:51	7439-92-1	
Selenium	**<1.1**	mg/kg	5.1	1.1	1	08/22/17 11:36	08/23/17 16:51	7782-49-2	
Silver	**<0.35**	mg/kg	1.0	0.35	1	08/22/17 11:36	08/23/17 16:51	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.013J**	mg/kg	0.036	0.011	1	08/28/17 06:57	08/28/17 11:24	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.1**	%	0.10	0.10	1		08/18/17 17:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-IDW-0815 **Lab ID: 40155012017** Collected: 08/15/17 10:20 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<35.9**	ug/kg	71.9	35.9	1	08/28/17 12:44	08/29/17 11:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**<35.9**	ug/kg	71.9	35.9	1	08/28/17 12:44	08/29/17 11:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<35.9**	ug/kg	71.9	35.9	1	08/28/17 12:44	08/29/17 11:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**560**	ug/kg	71.9	35.9	1	08/28/17 12:44	08/29/17 11:37	53469-21-9	
PCB-1248 (Aroclor 1248)	**<35.9**	ug/kg	71.9	35.9	1	08/28/17 12:44	08/29/17 11:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**571**	ug/kg	71.9	35.9	1	08/28/17 12:44	08/29/17 11:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**256**	ug/kg	71.9	35.9	1	08/28/17 12:44	08/29/17 11:37	11096-82-5	
PCB, Total	**1390**	ug/kg	71.9	35.9	1	08/28/17 12:44	08/29/17 11:37	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	50-102		1	08/28/17 12:44	08/29/17 11:37	877-09-8	
Decachlorobiphenyl (S)	77	%	53-105		1	08/28/17 12:44	08/29/17 11:37	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**3.0J**	mg/kg	6.8	1.4	1	08/22/17 11:36	08/24/17 11:42	7440-38-2	
Barium	**204**	mg/kg	0.68	0.20	1	08/22/17 11:36	08/24/17 11:42	7440-39-3	
Cadmium	**1.4**	mg/kg	0.68	0.18	1	08/22/17 11:36	08/24/17 11:42	7440-43-9	
Chromium	**48.5**	mg/kg	1.4	0.38	1	08/22/17 11:36	08/24/17 11:42	7440-47-3	
Lead	**216**	mg/kg	1.8	0.59	1	08/22/17 11:36	08/24/17 11:42	7439-92-1	
Selenium	**<1.5**	mg/kg	6.8	1.5	1	08/22/17 11:36	08/24/17 11:42	7782-49-2	
Silver	**1.8**	mg/kg	1.4	0.47	1	08/22/17 11:36	08/24/17 11:42	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 08/17/17 12:17								
Arsenic	**<0.042**	mg/L	0.12	0.042	1	08/21/17 10:09	08/21/17 18:13	7440-38-2	
Barium	**0.72**	mg/L	0.075	0.025	1	08/21/17 10:09	08/21/17 18:13	7440-39-3	
Cadmium	**<0.0066**	mg/L	0.025	0.0066	1	08/21/17 10:09	08/21/17 18:13	7440-43-9	
Chromium	**<0.013**	mg/L	0.050	0.013	1	08/21/17 10:09	08/21/17 18:13	7440-47-3	
Lead	**<0.022**	mg/L	0.065	0.022	1	08/21/17 10:09	08/21/17 18:13	7439-92-1	
Selenium	**<0.083**	mg/L	0.25	0.083	1	08/21/17 10:09	08/21/17 18:13	7782-49-2	
Silver	**<0.017**	mg/L	0.050	0.017	1	08/21/17 10:09	08/21/17 18:13	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 08/17/17 12:17								
Mercury	**<0.13**	ug/L	0.42	0.13	1	08/18/17 10:55	08/21/17 12:41	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**1.0**	mg/kg	0.052	0.016	1	08/28/17 06:57	08/28/17 11:26	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**76.3J**	ug/kg	92.9	27.9	5	08/29/17 08:41	08/29/17 14:15	83-32-9	
Acenaphthylene	**<23.7**	ug/kg	79.2	23.7	5	08/29/17 08:41	08/29/17 14:15	208-96-8	
Anthracene	**<41.1**	ug/kg	137	41.1	5	08/29/17 08:41	08/29/17 14:15	120-12-7	
Benzo(a)anthracene	**70.8J**	ug/kg	76.3	22.8	5	08/29/17 08:41	08/29/17 14:15	56-55-3	
Benzo(a)pyrene	**56.1J**	ug/kg	60.2	18.1	5	08/29/17 08:41	08/29/17 14:15	50-32-8	
Benzo(b)fluoranthene	**84.2**	ug/kg	67.7	20.3	5	08/29/17 08:41	08/29/17 14:15	205-99-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-IDW-0815 **Lab ID: 40155012017** Collected: 08/15/17 10:20 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Benzo(g,h,i)perylene	**42.7J**	ug/kg	48.7	14.6	5	08/29/17 08:41	08/29/17 14:15	191-24-2	
Benzo(k)fluoranthene	**26.9J**	ug/kg	60.2	18.1	5	08/29/17 08:41	08/29/17 14:15	207-08-9	
Chrysene	**69.4J**	ug/kg	80.6	24.3	5	08/29/17 08:41	08/29/17 14:15	218-01-9	
Dibenz(a,h)anthracene	**<16.1**	ug/kg	53.6	16.1	5	08/29/17 08:41	08/29/17 14:15	53-70-3	
Fluoranthene	**154**	ug/kg	125	37.5	5	08/29/17 08:41	08/29/17 14:15	206-44-0	
Fluorene	**73.0J**	ug/kg	99.3	29.8	5	08/29/17 08:41	08/29/17 14:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**36.3J**	ug/kg	52.8	15.8	5	08/29/17 08:41	08/29/17 14:15	193-39-5	
1-Methylnaphthalene	**617**	ug/kg	96.4	29.0	5	08/29/17 08:41	08/29/17 14:15	90-12-0	
2-Methylnaphthalene	**503**	ug/kg	120	36.0	5	08/29/17 08:41	08/29/17 14:15	91-57-6	
Naphthalene	**374**	ug/kg	202	60.6	5	08/29/17 08:41	08/29/17 14:15	91-20-3	
Phenanthrene	**231J**	ug/kg	279	83.8	5	08/29/17 08:41	08/29/17 14:15	85-01-8	
Pyrene	**120**	ug/kg	108	32.5	5	08/29/17 08:41	08/29/17 14:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	19-96		5	08/29/17 08:41	08/29/17 14:15	321-60-8	
Terphenyl-d14 (S)	52	%	31-98		5	08/29/17 08:41	08/29/17 14:15	1718-51-0	
8270 MSSV TCLP Sep Funnel	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Leachate Method/Date: EPA 1311; 08/17/17 12:17								
1,4-Dichlorobenzene	**<18.8**	ug/L	62.5	18.8	1	08/24/17 08:10	08/24/17 15:47	106-46-7	
2,4-Dinitrotoluene	**<7.9**	ug/L	26.4	7.9	1	08/24/17 08:10	08/24/17 15:47	121-14-2	
Hexachloro-1,3-butadiene	**<24.6**	ug/L	82.0	24.6	1	08/24/17 08:10	08/24/17 15:47	87-68-3	
Hexachlorobenzene	**<16.9**	ug/L	56.4	16.9	1	08/24/17 08:10	08/24/17 15:47	118-74-1	
Hexachloroethane	**<26.6**	ug/L	88.6	26.6	1	08/24/17 08:10	08/24/17 15:47	67-72-1	
2-Methylphenol(o-Cresol)	**<8.7**	ug/L	28.9	8.7	1	08/24/17 08:10	08/24/17 15:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<15.6**	ug/L	52.0	15.6	1	08/24/17 08:10	08/24/17 15:47		
Nitrobenzene	**<14.5**	ug/L	48.3	14.5	1	08/24/17 08:10	08/24/17 15:47	98-95-3	
Pentachlorophenol	**<14.3**	ug/L	47.8	14.3	1	08/24/17 08:10	08/24/17 15:47	87-86-5	
Pyridine	**<17.9**	ug/L	59.6	17.9	1	08/24/17 08:10	08/24/17 15:47	110-86-1	
2,4,5-Trichlorophenol	**<8.4**	ug/L	28.0	8.4	1	08/24/17 08:10	08/24/17 15:47	95-95-4	
2,4,6-Trichlorophenol	**<21.1**	ug/L	70.4	21.1	1	08/24/17 08:10	08/24/17 15:47	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	96	%	53-100		1	08/24/17 08:10	08/24/17 15:47	4165-60-0	
2-Fluorobiphenyl (S)	88	%	59-109		1	08/24/17 08:10	08/24/17 15:47	321-60-8	
Phenol-d6 (S)	33	%	18-120		1	08/24/17 08:10	08/24/17 15:47	13127-88-3	
2,4,6-Tribromophenol (S)	102	%	65-140		1	08/24/17 08:10	08/24/17 15:47	118-79-6	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	630-20-6	W
1,1,1-Trichloroethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	71-55-6	W
1,1,2,2-Tetrachloroethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	79-34-5	W
1,1,2-Trichloroethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	79-00-5	W
1,1-Dichloroethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	75-34-3	W
1,1-Dichloroethene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	75-35-4	W
1,1-Dichloropropene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	563-58-6	W
1,2,3-Trichlorobenzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	87-61-6	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-IDW-0815 **Lab ID: 40155012017** Collected: 08/15/17 10:20 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,3-Trichloropropane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	96-18-4	W
1,2,4-Trichlorobenzene	**<190**	ug/kg	1000	190	4	08/17/17 06:45	08/18/17 09:29	120-82-1	W
1,2,4-Trimethylbenzene	**4420**	ug/kg	345	144	4	08/17/17 06:45	08/18/17 09:29	95-63-6	
1,2-Dibromo-3-chloropropane	**<365**	ug/kg	1000	365	4	08/17/17 06:45	08/18/17 09:29	96-12-8	W
1,2-Dibromoethane (EDB)	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	106-93-4	W
1,2-Dichlorobenzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	95-50-1	W
1,2-Dichloroethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	107-06-2	W
1,2-Dichloropropane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	78-87-5	W
1,3,5-Trimethylbenzene	**865**	ug/kg	345	144	4	08/17/17 06:45	08/18/17 09:29	108-67-8	
1,3-Dichlorobenzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	541-73-1	W
1,3-Dichloropropane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	142-28-9	W
1,4-Dichlorobenzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	106-46-7	W
2,2-Dichloropropane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	594-20-7	W
2-Chlorotoluene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	95-49-8	W
4-Chlorotoluene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	106-43-4	W
Benzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	71-43-2	W
Bromobenzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	108-86-1	W
Bromochloromethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	74-97-5	W
Bromodichloromethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	75-27-4	W
Bromoform	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	75-25-2	W
Bromomethane	**<280**	ug/kg	1000	280	4	08/17/17 06:45	08/18/17 09:29	74-83-9	W
Carbon tetrachloride	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	56-23-5	W
Chlorobenzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	108-90-7	W
Chloroethane	**<268**	ug/kg	1000	268	4	08/17/17 06:45	08/18/17 09:29	75-00-3	W
Chloroform	**<186**	ug/kg	1000	186	4	08/17/17 06:45	08/18/17 09:29	67-66-3	W
Chloromethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	74-87-3	W
Dibromochloromethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	124-48-1	W
Dibromomethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	74-95-3	W
Dichlorodifluoromethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	75-71-8	W
Diisopropyl ether	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	108-20-3	W
Ethylbenzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	100-41-4	W
Hexachloro-1,3-butadiene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	87-68-3	W
Isopropylbenzene (Cumene)	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	98-82-8	W
Methyl-tert-butyl ether	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	1634-04-4	W
Methylene Chloride	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	75-09-2	W
Naphthalene	**2560**	ug/kg	1440	230	4	08/17/17 06:45	08/18/17 09:29	91-20-3	
Styrene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	100-42-5	W
Tetrachloroethene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	127-18-4	W
Toluene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	108-88-3	W
Trichloroethene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	79-01-6	W
Trichlorofluoromethane	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	75-69-4	W
Vinyl chloride	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	75-01-4	W
cis-1,2-Dichloroethene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	156-59-2	W
cis-1,3-Dichloropropene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	10061-01-5	W
m&p-Xylene	**<200**	ug/kg	480	200	4	08/17/17 06:45	08/18/17 09:29	179601-23-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: SB17-IDW-0815 **Lab ID: 40155012017** Collected: 08/15/17 10:20 Received: 08/15/17 11:48 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
n-Butylbenzene	**2330**	ug/kg	345	144	4	08/17/17 06:45	08/18/17 09:29	104-51-8	
n-Propylbenzene	**394**	ug/kg	345	144	4	08/17/17 06:45	08/18/17 09:29	103-65-1	
o-Xylene	**144J**	ug/kg	345	144	4	08/17/17 06:45	08/18/17 09:29	95-47-6	
p-Isopropyltoluene	**917**	ug/kg	345	144	4	08/17/17 06:45	08/18/17 09:29	99-87-6	
sec-Butylbenzene	**594**	ug/kg	345	144	4	08/17/17 06:45	08/18/17 09:29	135-98-8	
tert-Butylbenzene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	98-06-6	W
trans-1,2-Dichloroethene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	156-60-5	W
trans-1,3-Dichloropropene	**<100**	ug/kg	240	100	4	08/17/17 06:45	08/18/17 09:29	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	68-130		4	08/17/17 06:45	08/18/17 09:29	1868-53-7	D3
Toluene-d8 (S)	84	%	68-149		4	08/17/17 06:45	08/18/17 09:29	2037-26-5	
4-Bromofluorobenzene (S)	86	%	58-141		4	08/17/17 06:45	08/18/17 09:29	460-00-4	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 08/17/17 00:00								
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		08/22/17 10:46	75-35-4	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		08/22/17 10:46	107-06-2	
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		08/22/17 10:46	78-93-3	
Benzene	**<5.0**	ug/L	10.0	5.0	10		08/22/17 10:46	71-43-2	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		08/22/17 10:46	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		08/22/17 10:46	108-90-7	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		08/22/17 10:46	67-66-3	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		08/22/17 10:46	127-18-4	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		08/22/17 10:46	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		08/22/17 10:46	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	70-130		10		08/22/17 10:46	2037-26-5	
4-Bromofluorobenzene (S)	96	%	61-130		10		08/22/17 10:46	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		10		08/22/17 10:46	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**30.4**	%	0.10	0.10	1		08/15/17 18:58		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>210**	deg F			1		08/17/17 11:16		
9040 pH	Analytical Method: EPA 9040								
pH	**7.9**	Std. Units	0.10	0.010	1		08/22/17 10:40		2q,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-IDW-0815 **Lab ID: 40155012018** Collected: 08/15/17 10:40 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.25**	ug/L	0.51	0.25	1	08/17/17 13:23	08/19/17 00:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.25**	ug/L	0.51	0.25	1	08/17/17 13:23	08/19/17 00:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.25**	ug/L	0.51	0.25	1	08/17/17 13:23	08/19/17 00:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.25**	ug/L	0.51	0.25	1	08/17/17 13:23	08/19/17 00:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.25**	ug/L	0.51	0.25	1	08/17/17 13:23	08/19/17 00:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.25**	ug/L	0.51	0.25	1	08/17/17 13:23	08/19/17 00:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.25**	ug/L	0.51	0.25	1	08/17/17 13:23	08/19/17 00:33	11096-82-5	
PCB, Total	**<0.25**	ug/L	0.51	0.25	1	08/17/17 13:23	08/19/17 00:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	48-123		1	08/17/17 13:23	08/19/17 00:33	877-09-8	
Decachlorobiphenyl (S)	39	%	35-125		1	08/17/17 13:23	08/19/17 00:33	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic	**4.5**	ug/L	1.0	0.28	1	08/24/17 08:58	08/24/17 22:19	7440-38-2	
Barium	**977**	ug/L	1.1	0.34	1	08/24/17 08:58	08/24/17 22:19	7440-39-3	
Cadmium	**0.95J**	ug/L	1.0	0.081	1	08/24/17 08:58	08/24/17 22:19	7440-43-9	
Chromium	**45.9**	ug/L	3.4	1.0	1	08/24/17 08:58	08/24/17 22:19	7440-47-3	
Lead	**97.2**	ug/L	1.0	0.20	1	08/24/17 08:58	08/24/17 22:19	7439-92-1	
Selenium	**0.66J**	ug/L	1.1	0.32	1	08/24/17 08:58	08/24/17 22:19	7782-49-2	
Silver	**0.85**	ug/L	0.50	0.10	1	08/24/17 08:58	08/24/17 22:19	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**1.0**	ug/L	0.42	0.13	1	08/21/17 12:45	08/22/17 09:05	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.021J**	ug/L	0.029	0.0057	1	08/17/17 10:30	08/17/17 17:56	83-32-9	
Acenaphthylene	**<0.0047**	ug/L	0.023	0.0047	1	08/17/17 10:30	08/17/17 17:56	208-96-8	
Anthracene	**0.030J**	ug/L	0.049	0.0099	1	08/17/17 10:30	08/17/17 17:56	120-12-7	
Benzo(a)anthracene	**0.073**	ug/L	0.036	0.0071	1	08/17/17 10:30	08/17/17 17:56	56-55-3	
Benzo(a)pyrene	**0.087**	ug/L	0.050	0.0099	1	08/17/17 10:30	08/17/17 17:56	50-32-8	
Benzo(b)fluoranthene	**0.11**	ug/L	0.027	0.0054	1	08/17/17 10:30	08/17/17 17:56	205-99-2	
Benzo(g,h,i)perylene	**0.066**	ug/L	0.032	0.0064	1	08/17/17 10:30	08/17/17 17:56	191-24-2	
Benzo(k)fluoranthene	**0.073**	ug/L	0.036	0.0071	1	08/17/17 10:30	08/17/17 17:56	207-08-9	
Chrysene	**0.14**	ug/L	0.062	0.012	1	08/17/17 10:30	08/17/17 17:56	218-01-9	
Dibenz(a,h)anthracene	**<0.0095**	ug/L	0.047	0.0095	1	08/17/17 10:30	08/17/17 17:56	53-70-3	
Fluoranthene	**0.26**	ug/L	0.050	0.010	1	08/17/17 10:30	08/17/17 17:56	206-44-0	
Fluorene	**0.021J**	ug/L	0.038	0.0075	1	08/17/17 10:30	08/17/17 17:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.053J**	ug/L	0.083	0.017	1	08/17/17 10:30	08/17/17 17:56	193-39-5	
1-Methylnaphthalene	**<0.0056**	ug/L	0.028	0.0056	1	08/17/17 10:30	08/17/17 17:56	90-12-0	
2-Methylnaphthalene	**<0.0046**	ug/L	0.023	0.0046	1	08/17/17 10:30	08/17/17 17:56	91-57-6	
Naphthalene	**0.030J**	ug/L	0.086	0.017	1	08/17/17 10:30	08/17/17 17:56	91-20-3	
Phenanthrene	**0.19**	ug/L	0.065	0.013	1	08/17/17 10:30	08/17/17 17:56	85-01-8	
Pyrene	**0.26**	ug/L	0.036	0.0072	1	08/17/17 10:30	08/17/17 17:56	129-00-0	
Total PAHs	**1.4**	ug/L			1	08/17/17 10:30	08/17/17 17:56		
Surrogates									
2-Fluorobiphenyl (S)	45	%	35-84		1	08/17/17 10:30	08/17/17 17:56	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-IDW-0815 **Lab ID: 40155012018** Collected: 08/15/17 10:40 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
Terphenyl-d14 (S)	37	%	10-129		1	08/17/17 10:30	08/17/17 17:56	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		08/17/17 16:07	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		08/17/17 16:07	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		08/17/17 16:07	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		08/17/17 16:07	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/17/17 16:07	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		08/17/17 16:07	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		08/17/17 16:07	67-66-3	L1
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		08/17/17 16:07	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		08/17/17 16:07	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		08/17/17 16:07	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		08/17/17 16:07	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		08/17/17 16:07	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/17/17 16:07	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/17/17 16:07	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		08/17/17 16:07	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/17/17 16:07	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/17/17 16:07	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		08/17/17 16:07	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		08/17/17 16:07	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		08/17/17 16:07	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/17/17 16:07	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		08/17/17 16:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		08/17/17 16:07	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		08/17/17 16:07	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/17/17 16:07	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Sample: TW17-IDW-0815 **Lab ID: 40155012018** Collected: 08/15/17 10:40 Received: 08/15/17 11:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		08/17/17 16:07	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		08/17/17 16:07	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		08/17/17 16:07	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		08/17/17 16:07	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		08/17/17 16:07	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		08/17/17 16:07	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		08/17/17 16:07	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		08/17/17 16:07	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		08/17/17 16:07	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		08/17/17 16:07	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		08/17/17 16:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	61-130		1		08/17/17 16:07	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		08/17/17 16:07	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		08/17/17 16:07	2037-26-5	
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>210**	deg F			1		08/17/17 12:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**149**	mg/L	6.7	3.2	1		08/17/17 11:03		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH	**7.8**	Std. Units	0.10	0.010	1		08/22/17 11:00		H6
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**58.9**	mg/L	44.8	13.4	1	08/23/17 09:22	08/23/17 12:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265023
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 40155012017

METHOD BLANK: 1559003 Matrix: Water
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.42	08/21/17 12:32	

METHOD BLANK: 1558181 Matrix: Water
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.42	08/21/17 12:48	

METHOD BLANK: 1558529 Matrix: Water
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.42	08/21/17 12:55	

LABORATORY CONTROL SAMPLE: 1559004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1559005 1559006

Parameter	Units	40155012017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.13	5	5	5.0	5.0	100	99	85-115	0	20	

MATRIX SPIKE SAMPLE: 1559007

Parameter	Units	40155087001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.00042 mg/L	5	4.8	96	85-115	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265200 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 40155012003, 40155012012, 40155012018

METHOD BLANK: 1560111 Matrix: Water
Associated Lab Samples: 40155012003, 40155012012, 40155012018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.42	08/22/17 08:46	

LABORATORY CONTROL SAMPLE: 1560112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1560113 1560114

Parameter	Units	40155012003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.13	5	5	5.0	4.8	99	96	85-115	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1560115 1560116

Parameter	Units	40155066005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	5.0	4.8	99	96	85-115	3	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265895 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40155012002, 40155012004

METHOD BLANK: 1563642 Matrix: Water
Associated Lab Samples: 40155012002, 40155012004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	08/29/17 09:43	

LABORATORY CONTROL SAMPLE: 1563643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563644 1563645

Parameter	Units	40155350001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.13	5	5	4.8	4.9	96	99	85-115	3	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265504 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40155012005, 40155012006, 40155012007, 40155012008, 40155012009, 40155012010, 40155012011, 40155012013, 40155012014, 40155012015, 40155012016, 40155012017

METHOD BLANK: 1561347 Matrix: Solid
Associated Lab Samples: 40155012005, 40155012006, 40155012007, 40155012008, 40155012009, 40155012010, 40155012011, 40155012013, 40155012014, 40155012015, 40155012016, 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	08/28/17 10:40	

LABORATORY CONTROL SAMPLE: 1561348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.84	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1561349 1561350

Parameter	Units	40155012005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.012	.88	.88	0.87	0.89	99	101	85-115	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265373 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40155012005, 40155012006, 40155012007, 40155012008, 40155012009, 40155012010, 40155012011, 40155012013, 40155012014, 40155012015, 40155012016, 40155012017

METHOD BLANK: 1560631 Matrix: Solid
Associated Lab Samples: 40155012005, 40155012006, 40155012007, 40155012008, 40155012009, 40155012010, 40155012011, 40155012013, 40155012014, 40155012015, 40155012016, 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	08/23/17 16:12	
Barium	mg/kg	<0.15	0.50	08/23/17 16:12	
Cadmium	mg/kg	<0.13	0.50	08/23/17 16:12	
Chromium	mg/kg	<0.28	1.0	08/23/17 16:12	
Lead	mg/kg	<0.43	1.3	08/23/17 16:12	
Selenium	mg/kg	<1.1	5.0	08/23/17 16:12	
Silver	mg/kg	<0.34	1.0	08/23/17 16:12	

LABORATORY CONTROL SAMPLE & LCSD: 1560632 1560638

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	50	47.2	48.8	94	98	80-120	3	20	
Barium	mg/kg	50	48.9	50.1	98	100	80-120	2	20	
Cadmium	mg/kg	50	49.0	50.4	98	101	80-120	3	20	
Chromium	mg/kg	50	49.9	51.1	100	102	80-120	2	20	
Lead	mg/kg	50	48.9	50.8	98	102	80-120	4	20	
Selenium	mg/kg	50	49.5	51.4	99	103	80-120	4	20	
Silver	mg/kg	25	24.7	25.5	99	102	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1560633 1560634

Parameter	Units	40155012005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	1.1J	52.5	52.5	50.3	49.8	94	93	75-125	1	20	
Barium	mg/kg	9.8	52.5	52.5	61.7	62.0	99	99	75-125	1	20	
Cadmium	mg/kg	<0.14	52.5	52.5	52.1	51.4	99	98	75-125	1	20	
Chromium	mg/kg	6.2	52.5	52.5	57.6	58.0	98	99	75-125	1	20	
Lead	mg/kg	1.6	52.5	52.5	51.1	50.9	94	94	75-125	0	20	
Selenium	mg/kg	<1.2	52.5	52.5	51.9	50.4	99	96	75-125	3	20	
Silver	mg/kg	<0.36	26.3	26.3	26.7	26.4	102	100	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265193
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 40155012017

METHOD BLANK: 1560080 Matrix: Water
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	08/21/17 18:08	
Barium	mg/L	0.0078J	0.015	08/21/17 18:08	
Cadmium	mg/L	<0.0013	0.0050	08/21/17 18:08	
Chromium	mg/L	<0.0025	0.010	08/21/17 18:08	
Lead	mg/L	<0.0043	0.013	08/21/17 18:08	
Selenium	mg/L	<0.017	0.050	08/21/17 18:08	
Silver	mg/L	<0.0033	0.010	08/21/17 18:08	

METHOD BLANK: 1558182 Matrix: Solid
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.042	0.12	08/21/17 18:25	
Barium	mg/L	<0.025	0.075	08/21/17 18:25	
Cadmium	mg/L	<0.0066	0.025	08/21/17 18:25	
Chromium	mg/L	<0.013	0.050	08/21/17 18:25	
Lead	mg/L	<0.022	0.065	08/21/17 18:25	
Selenium	mg/L	<0.083	0.25	08/21/17 18:25	
Silver	mg/L	<0.017	0.050	08/21/17 18:25	

METHOD BLANK: 1558527 Matrix: Solid
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.042	0.12	08/21/17 18:32	
Barium	mg/L	<0.025	0.075	08/21/17 18:32	
Cadmium	mg/L	<0.0066	0.025	08/21/17 18:32	
Chromium	mg/L	<0.013	0.050	08/21/17 18:32	
Lead	mg/L	<0.022	0.065	08/21/17 18:32	
Selenium	mg/L	<0.083	0.25	08/21/17 18:32	
Silver	mg/L	<0.017	0.050	08/21/17 18:32	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

METHOD BLANK: 1558607 Matrix: Solid
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	08/21/17 18:37	
Barium	mg/L	<0.0050	0.015	08/21/17 18:37	
Cadmium	mg/L	<0.0013	0.0050	08/21/17 18:37	
Chromium	mg/L	<0.0025	0.010	08/21/17 18:37	
Lead	mg/L	<0.0043	0.013	08/21/17 18:37	
Selenium	mg/L	<0.017	0.050	08/21/17 18:37	
Silver	mg/L	<0.0033	0.010	08/21/17 18:37	

LABORATORY CONTROL SAMPLE: 1560081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.47	94	80-120	
Barium	mg/L	.5	0.53	106	80-120	
Cadmium	mg/L	.5	0.49	98	80-120	
Chromium	mg/L	.5	0.53	105	80-120	
Lead	mg/L	.5	0.53	106	80-120	
Selenium	mg/L	.5	0.52	103	80-120	
Silver	mg/L	.25	0.27	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1560082 1560083

Parameter	Units	40155012017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.042	2.5	2.5	2.4	2.4	93	94	75-125	0	20	
Barium	mg/L	0.72	2.5	2.5	3.3	3.3	104	102	75-125	1	20	
Cadmium	mg/L	<0.0066	2.5	2.5	2.5	2.4	99	97	75-125	2	20	
Chromium	mg/L	<0.013	2.5	2.5	2.6	2.5	104	101	75-125	2	20	
Lead	mg/L	<0.022	2.5	2.5	2.7	2.6	106	104	75-125	2	20	
Selenium	mg/L	<0.083	2.5	2.5	2.6	2.5	102	100	75-125	2	20	
Silver	mg/L	<0.017	1.2	1.2	1.4	1.3	110	107	75-125	3	20	

MATRIX SPIKE SAMPLE: 1560084

Parameter	Units	40155087001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.12	2.5	2.4	97	75-125	
Barium	mg/L	<0.075	2.5	2.7	107	75-125	
Cadmium	mg/L	<0.025	2.5	2.5	101	75-125	
Chromium	mg/L	<0.050	2.5	2.6	103	75-125	
Lead	mg/L	<0.065	2.5	2.7	107	75-125	
Selenium	mg/L	<0.25	2.5	2.7	109	75-125	
Silver	mg/L	<0.050	1.2	1.4	109	75-125	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265611 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 40155012003, 40155012012, 40155012018

METHOD BLANK: 1561830 Matrix: Water
Associated Lab Samples: 40155012003, 40155012012, 40155012018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.28	1.0	08/24/17 21:24	
Barium	ug/L	<0.34	1.1	08/24/17 21:24	
Cadmium	ug/L	<0.081	1.0	08/24/17 21:24	
Chromium	ug/L	<1.0	3.4	08/24/17 21:24	
Lead	ug/L	<0.20	1.0	08/24/17 21:24	
Selenium	ug/L	<0.32	1.1	08/24/17 21:24	
Silver	ug/L	<0.10	0.50	08/24/17 21:24	

LABORATORY CONTROL SAMPLE: 1561831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	523	105	80-120	
Barium	ug/L	500	535	107	80-120	
Cadmium	ug/L	500	550	110	80-120	
Chromium	ug/L	500	530	106	80-120	
Lead	ug/L	500	525	105	80-120	
Selenium	ug/L	500	552	110	80-120	
Silver	ug/L	250	271	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1561832 1561833

Parameter	Units	40155012003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<0.28	500	500	524	522	105	104	75-125	1	20	
Barium	ug/L	28.3	500	500	554	549	105	104	75-125	1	20	
Cadmium	ug/L	0.14J	500	500	528	524	106	105	75-125	1	20	
Chromium	ug/L	<1.0	500	500	512	510	102	102	75-125	0	20	
Lead	ug/L	<0.20	500	500	520	515	104	103	75-125	1	20	
Selenium	ug/L	0.79J	500	500	546	542	109	108	75-125	1	20	
Silver	ug/L	<0.10	250	250	250	246	100	99	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265614
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40155012002, 40155012004

METHOD BLANK: 1561839 Matrix: Water
Associated Lab Samples: 40155012002, 40155012004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	08/24/17 19:09	
Barium, Dissolved	ug/L	<0.34	1.1	08/24/17 19:09	
Cadmium, Dissolved	ug/L	<0.081	1.0	08/24/17 19:09	
Chromium, Dissolved	ug/L	<1.0	3.4	08/24/17 19:09	
Lead, Dissolved	ug/L	<0.20	1.0	08/24/17 19:09	
Selenium, Dissolved	ug/L	<0.32	1.1	08/24/17 19:09	
Silver, Dissolved	ug/L	<0.10	0.50	08/24/17 19:09	

LABORATORY CONTROL SAMPLE: 1561840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	512	102	80-120	
Barium, Dissolved	ug/L	500	521	104	80-120	
Cadmium, Dissolved	ug/L	500	534	107	80-120	
Chromium, Dissolved	ug/L	500	511	102	80-120	
Lead, Dissolved	ug/L	500	504	101	80-120	
Selenium, Dissolved	ug/L	500	542	108	80-120	
Silver, Dissolved	ug/L	250	260	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1561841 1561842

Parameter	Units	40155167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	1.3	500	500	529	538	106	107	75-125	2	20	
Barium, Dissolved	ug/L	404	500	500	951	960	109	111	75-125	1	20	
Cadmium, Dissolved	ug/L	0.21J	500	500	521	530	104	106	75-125	2	20	
Chromium, Dissolved	ug/L	<1.0	500	500	507	522	101	104	75-125	3	20	
Lead, Dissolved	ug/L	0.46J	500	500	573	527	114	105	75-125	8	20	
Selenium, Dissolved	ug/L	<0.32	500	500	560	560	112	112	75-125	0	20	
Silver, Dissolved	ug/L	<0.10	250	250	242	247	97	99	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 264941 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40155012005, 40155012013, 40155012017

METHOD BLANK: 1558649 Matrix: Solid
Associated Lab Samples: 40155012005, 40155012013, 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	08/17/17 08:49	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	08/17/17 08:49	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	08/17/17 08:49	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	08/17/17 08:49	
1,1-Dichloroethane	ug/kg	<17.6	50.0	08/17/17 08:49	
1,1-Dichloroethene	ug/kg	<17.6	50.0	08/17/17 08:49	
1,1-Dichloropropene	ug/kg	<14.0	50.0	08/17/17 08:49	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	08/17/17 08:49	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	08/17/17 08:49	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	08/17/17 08:49	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	08/17/17 08:49	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	08/17/17 08:49	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	08/17/17 08:49	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	08/17/17 08:49	
1,2-Dichloroethane	ug/kg	<15.0	50.0	08/17/17 08:49	
1,2-Dichloropropane	ug/kg	<16.8	50.0	08/17/17 08:49	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	08/17/17 08:49	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	08/17/17 08:49	
1,3-Dichloropropane	ug/kg	<12.0	50.0	08/17/17 08:49	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	08/17/17 08:49	
2,2-Dichloropropane	ug/kg	<12.6	50.0	08/17/17 08:49	
2-Chlorotoluene	ug/kg	<15.8	50.0	08/17/17 08:49	
4-Chlorotoluene	ug/kg	<13.0	50.0	08/17/17 08:49	
Benzene	ug/kg	<9.2	20.0	08/17/17 08:49	
Bromobenzene	ug/kg	<20.6	50.0	08/17/17 08:49	
Bromochloromethane	ug/kg	<21.4	50.0	08/17/17 08:49	
Bromodichloromethane	ug/kg	<9.8	50.0	08/17/17 08:49	
Bromoform	ug/kg	<19.8	50.0	08/17/17 08:49	
Bromomethane	ug/kg	<69.9	250	08/17/17 08:49	
Carbon tetrachloride	ug/kg	<12.1	50.0	08/17/17 08:49	
Chlorobenzene	ug/kg	<14.8	50.0	08/17/17 08:49	
Chloroethane	ug/kg	<67.0	250	08/17/17 08:49	
Chloroform	ug/kg	<46.4	250	08/17/17 08:49	
Chloromethane	ug/kg	<20.4	50.0	08/17/17 08:49	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	08/17/17 08:49	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	08/17/17 08:49	
Dibromochloromethane	ug/kg	<17.9	50.0	08/17/17 08:49	
Dibromomethane	ug/kg	<19.3	50.0	08/17/17 08:49	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	08/17/17 08:49	
Diisopropyl ether	ug/kg	<17.7	50.0	08/17/17 08:49	
Ethylbenzene	ug/kg	<12.4	50.0	08/17/17 08:49	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

METHOD BLANK: 1558649 Matrix: Solid
Associated Lab Samples: 40155012005, 40155012013, 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	08/17/17 08:49	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	08/17/17 08:49	
m&p-Xylene	ug/kg	<34.4	100	08/17/17 08:49	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/17/17 08:49	
Methylene Chloride	ug/kg	<16.2	50.0	08/17/17 08:49	
n-Butylbenzene	ug/kg	<10.5	50.0	08/17/17 08:49	
n-Propylbenzene	ug/kg	<11.6	50.0	08/17/17 08:49	
Naphthalene	ug/kg	<40.0	250	08/17/17 08:49	
o-Xylene	ug/kg	<14.0	50.0	08/17/17 08:49	
p-Isopropyltoluene	ug/kg	<12.0	50.0	08/17/17 08:49	
sec-Butylbenzene	ug/kg	<11.9	50.0	08/17/17 08:49	
Styrene	ug/kg	<9.0	50.0	08/17/17 08:49	
tert-Butylbenzene	ug/kg	<9.5	50.0	08/17/17 08:49	
Tetrachloroethene	ug/kg	<12.9	50.0	08/17/17 08:49	
Toluene	ug/kg	<11.2	50.0	08/17/17 08:49	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	08/17/17 08:49	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	08/17/17 08:49	
Trichloroethene	ug/kg	<23.6	50.0	08/17/17 08:49	
Trichlorofluoromethane	ug/kg	<24.7	50.0	08/17/17 08:49	
Vinyl chloride	ug/kg	<21.1	50.0	08/17/17 08:49	
4-Bromofluorobenzene (S)	%	92	58-141	08/17/17 08:49	
Dibromofluoromethane (S)	%	110	68-130	08/17/17 08:49	
Toluene-d8 (S)	%	104	68-149	08/17/17 08:49	

LABORATORY CONTROL SAMPLE: 1558650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2780	111	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2470	99	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2430	97	70-130	
1,1-Dichloroethane	ug/kg	2500	2710	108	63-124	
1,1-Dichloroethene	ug/kg	2500	2320	93	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	2340	94	78-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2130	85	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2520	101	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2500	100	70-130	
1,2-Dichloroethane	ug/kg	2500	2870	115	56-135	
1,2-Dichloropropane	ug/kg	2500	2700	108	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2520	101	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2450	98	70-130	
Benzene	ug/kg	2500	2760	110	66-130	
Bromodichloromethane	ug/kg	2500	2440	97	62-135	
Bromoform	ug/kg	2500	1960	78	68-130	
Bromomethane	ug/kg	2500	2280	91	29-137	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

LABORATORY CONTROL SAMPLE: 1558650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2740	110	57-130	
Chlorobenzene	ug/kg	2500	2660	106	70-130	
Chloroethane	ug/kg	2500	3270	131	36-144	
Chloroform	ug/kg	2500	2690	108	69-115	
Chloromethane	ug/kg	2500	2430	97	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2660	106	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2480	99	70-130	
Dibromochloromethane	ug/kg	2500	2270	91	70-130	
Dichlorodifluoromethane	ug/kg	2500	1780	71	10-99	
Ethylbenzene	ug/kg	2500	2480	99	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2450	98	70-130	
m&p-Xylene	ug/kg	5000	5080	102	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2430	97	63-134	
Methylene Chloride	ug/kg	2500	2580	103	56-123	
o-Xylene	ug/kg	2500	2440	98	70-130	
Styrene	ug/kg	2500	2500	100	70-130	
Tetrachloroethene	ug/kg	2500	2650	106	70-131	
Toluene	ug/kg	2500	2600	104	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2480	99	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2310	92	68-130	
Trichloroethene	ug/kg	2500	2660	106	70-130	
Trichlorofluoromethane	ug/kg	2500	2450	98	37-149	
Vinyl chloride	ug/kg	2500	2230	89	43-128	
4-Bromofluorobenzene (S)	%			94	58-141	
Dibromofluoromethane (S)	%			107	68-130	
Toluene-d8 (S)	%			102	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558651 1558652

Parameter	Units	40155012005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1320	1320	1320	1210	100	92	57-123	8	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1320	1320	1310	1440	99	109	73-135	9	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1320	1320	1310	1390	99	105	70-130	6	20	
1,1-Dichloroethane	ug/kg	<25.0	1320	1320	1450	1320	109	99	63-124	9	20	
1,1-Dichloroethene	ug/kg	<25.0	1320	1320	1050	964	79	73	48-117	9	23	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1320	1320	1400	1430	106	108	78-145	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1320	1320	1130	1340	85	102	38-168	17	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1320	1320	1270	1350	96	102	70-130	6	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1320	1320	1390	1410	105	107	70-130	1	20	
1,2-Dichloroethane	ug/kg	<25.0	1320	1320	1590	1540	120	116	56-145	3	20	
1,2-Dichloropropane	ug/kg	<25.0	1320	1320	1440	1440	108	109	77-123	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1320	1320	1380	1380	104	104	70-130	0	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1320	1320	1350	1320	102	100	70-130	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558651 1558652

Parameter	Units	40155012005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1320	1320	1450	1360	110	103	65-130	6	20	
Bromodichloromethane	ug/kg	<25.0	1320	1320	1300	1310	98	99	59-141	1	20	
Bromoform	ug/kg	<25.0	1320	1320	1150	1180	87	89	59-141	3	20	
Bromomethane	ug/kg	<69.9	1320	1320	1160	981	88	74	28-139	17	20	
Carbon tetrachloride	ug/kg	<25.0	1320	1320	1330	1130	100	85	50-130	16	20	
Chlorobenzene	ug/kg	<25.0	1320	1320	1400	1400	106	106	70-130	0	20	
Chloroethane	ug/kg	<67.0	1320	1320	1650	1420	125	108	36-144	15	20	
Chloroform	ug/kg	<46.4	1320	1320	1450	1410	110	106	68-122	3	20	
Chloromethane	ug/kg	<25.0	1320	1320	1160	1100	87	83	30-126	5	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1320	1320	1460	1340	110	101	63-130	9	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1320	1320	1250	1290	94	98	70-130	4	20	
Dibromochloromethane	ug/kg	<25.0	1320	1320	1170	1160	88	88	66-136	0	20	
Dichlorodifluoromethane	ug/kg	<25.0	1320	1320	759	729	57	55	10-99	4	33	
Ethylbenzene	ug/kg	<25.0	1320	1320	1250	1210	94	91	80-122	3	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1320	1320	1200	1170	91	89	70-130	2	20	
m&p-Xylene	ug/kg	<50.0	2650	2650	2560	2490	97	94	70-130	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1320	1320	1300	1320	98	100	63-134	2	20	
Methylene Chloride	ug/kg	<25.0	1320	1320	1430	1330	108	100	56-127	7	20	
o-Xylene	ug/kg	<25.0	1320	1320	1280	1260	97	95	70-130	1	20	
Styrene	ug/kg	<25.0	1320	1320	1270	1330	96	100	70-130	5	20	
Tetrachloroethene	ug/kg	<25.0	1320	1320	1290	1240	97	94	70-131	4	20	
Toluene	ug/kg	<25.0	1320	1320	1320	1300	100	98	80-120	2	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1320	1320	1320	1270	100	96	60-130	4	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1320	1320	1180	1280	89	97	68-130	9	20	
Trichloroethene	ug/kg	<25.0	1320	1320	1370	1250	103	95	70-130	9	20	
Trichlorofluoromethane	ug/kg	<25.0	1320	1320	1080	919	82	69	37-149	16	24	
Vinyl chloride	ug/kg	<25.0	1320	1320	986	894	75	68	39-128	10	20	
4-Bromofluorobenzene (S)	%						115	116	58-141			
Dibromofluoromethane (S)	%						137	133	68-130			4q
Toluene-d8 (S)	%						128	125	68-149			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265172 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 40155012017

METHOD BLANK: 1560002 Matrix: Water
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<0.41	1.0	08/22/17 09:14	
1,2-Dichloroethane	ug/L	<0.17	1.0	08/22/17 09:14	
2-Butanone (MEK)	ug/L	<3.0	20.0	08/22/17 09:14	
Benzene	ug/L	<0.50	1.0	08/22/17 09:14	
Carbon tetrachloride	ug/L	<0.50	1.0	08/22/17 09:14	
Chlorobenzene	ug/L	<0.50	1.0	08/22/17 09:14	
Chloroform	ug/L	<2.5	5.0	08/22/17 09:14	
Tetrachloroethene	ug/L	<0.50	1.0	08/22/17 09:14	
Trichloroethene	ug/L	<0.33	1.0	08/22/17 09:14	
Vinyl chloride	ug/L	<0.18	1.0	08/22/17 09:14	
4-Bromofluorobenzene (S)	%	95	61-130	08/22/17 09:14	
Dibromofluoromethane (S)	%	107	67-130	08/22/17 09:14	
Toluene-d8 (S)	%	98	70-130	08/22/17 09:14	

METHOD BLANK: 1558179 Matrix: Solid
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<4.1	10.0	08/22/17 09:37	
1,2-Dichloroethane	ug/L	<1.7	10.0	08/22/17 09:37	
2-Butanone (MEK)	ug/L	<29.8	200	08/22/17 09:37	
Benzene	ug/L	<5.0	10.0	08/22/17 09:37	
Carbon tetrachloride	ug/L	<5.0	10.0	08/22/17 09:37	
Chlorobenzene	ug/L	<5.0	10.0	08/22/17 09:37	
Chloroform	ug/L	<25.0	50.0	08/22/17 09:37	
Tetrachloroethene	ug/L	<5.0	10.0	08/22/17 09:37	
Trichloroethene	ug/L	<3.3	10.0	08/22/17 09:37	
Vinyl chloride	ug/L	<1.8	10.0	08/22/17 09:37	
4-Bromofluorobenzene (S)	%	95	61-130	08/22/17 09:37	
Dibromofluoromethane (S)	%	108	67-130	08/22/17 09:37	
Toluene-d8 (S)	%	98	70-130	08/22/17 09:37	

METHOD BLANK: 1558530 Matrix: Solid
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<4.1	10.0	08/22/17 10:00	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

METHOD BLANK: 1558530 Matrix: Solid
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	<1.7	10.0	08/22/17 10:00	
2-Butanone (MEK)	ug/L	<29.8	200	08/22/17 10:00	
Benzene	ug/L	<5.0	10.0	08/22/17 10:00	
Carbon tetrachloride	ug/L	<5.0	10.0	08/22/17 10:00	
Chlorobenzene	ug/L	<5.0	10.0	08/22/17 10:00	
Chloroform	ug/L	<25.0	50.0	08/22/17 10:00	
Tetrachloroethene	ug/L	<5.0	10.0	08/22/17 10:00	
Trichloroethene	ug/L	<3.3	10.0	08/22/17 10:00	
Vinyl chloride	ug/L	<1.8	10.0	08/22/17 10:00	
4-Bromofluorobenzene (S)	%	95	61-130	08/22/17 10:00	
Dibromofluoromethane (S)	%	108	67-130	08/22/17 10:00	
Toluene-d8 (S)	%	98	70-130	08/22/17 10:00	

LABORATORY CONTROL SAMPLE: 1560003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	51.3	103	75-130	
1,2-Dichloroethane	ug/L	50	53.2	106	70-131	
2-Butanone (MEK)	ug/L	50	47.3	95	50-150	
Benzene	ug/L	50	52.7	105	73-145	
Carbon tetrachloride	ug/L	50	56.9	114	70-133	
Chlorobenzene	ug/L	50	53.3	107	70-130	
Chloroform	ug/L	50	54.6	109	80-121	
Tetrachloroethene	ug/L	50	53.0	106	70-130	
Trichloroethene	ug/L	50	52.5	105	70-130	
Vinyl chloride	ug/L	50	49.6	99	57-136	
4-Bromofluorobenzene (S)	%			100	61-130	
Dibromofluoromethane (S)	%			107	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1560004

Parameter	Units	40155061001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	<8.2	1000	1030	103	75-136	
1,2-Dichloroethane	ug/L	<3.4	1000	1060	106	70-131	
2-Butanone (MEK)	ug/L	2550	1000	3690	114	50-150	
Benzene	ug/L	44.6	1000	1110	106	73-145	
Carbon tetrachloride	ug/L	<10.0	1000	1120	112	70-134	
Chlorobenzene	ug/L	<10.0	1000	1060	106	70-130	
Chloroform	ug/L	<50.0	1000	1100	110	80-121	
Tetrachloroethene	ug/L	<10.0	1000	1030	103	70-130	
Trichloroethene	ug/L	<6.6	1000	1050	105	70-130	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

MATRIX SPIKE SAMPLE: 1560004

Parameter	Units	40155061001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	<3.5	1000	992	99	56-143	
4-Bromofluorobenzene (S)	%				99	61-130	
Dibromofluoromethane (S)	%				106	67-130	
Toluene-d8 (S)	%				100	70-130	

MATRIX SPIKE SAMPLE: 1560005

Parameter	Units	40155012017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	<4.1	500	521	104	75-136	
1,2-Dichloroethane	ug/L	<1.7	500	528	106	70-131	
2-Butanone (MEK)	ug/L	<29.8	500	505	101	50-150	
Benzene	ug/L	<5.0	500	537	107	73-145	
Carbon tetrachloride	ug/L	<5.0	500	572	114	70-134	
Chlorobenzene	ug/L	<5.0	500	537	107	70-130	
Chloroform	ug/L	<25.0	500	552	110	80-121	
Tetrachloroethene	ug/L	<5.0	500	529	106	70-130	
Trichloroethene	ug/L	<3.3	500	531	106	70-130	
Vinyl chloride	ug/L	<1.8	500	510	102	56-143	
4-Bromofluorobenzene (S)	%				99	61-130	
Dibromofluoromethane (S)	%				106	67-130	
Toluene-d8 (S)	%				99	70-130	

MATRIX SPIKE SAMPLE: 1560007

Parameter	Units	40155087001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	<0.010 mg/L	500	525	105	75-136	
1,2-Dichloroethane	ug/L	<0.010 mg/L	500	532	106	70-131	
2-Butanone (MEK)	ug/L	<0.20 mg/L	500	488	98	50-150	
Benzene	ug/L	<0.010 mg/L	500	531	106	73-145	
Carbon tetrachloride	ug/L	<0.010 mg/L	500	577	115	70-134	
Chlorobenzene	ug/L	<0.010 mg/L	500	535	107	70-130	
Chloroform	ug/L	<0.050 mg/L	500	551	110	80-121	
Tetrachloroethene	ug/L	<0.010 mg/L	500	534	107	70-130	
Trichloroethene	ug/L	<0.010 mg/L	500	534	107	70-130	
Vinyl chloride	ug/L	<0.010 mg/L	500	509	102	56-143	
4-Bromofluorobenzene (S)	%				98	61-130	
Dibromofluoromethane (S)	%				106	67-130	
Toluene-d8 (S)	%				99	70-130	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 264731 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40155012001, 40155012003

METHOD BLANK: 1557446 Matrix: Water
Associated Lab Samples: 40155012001, 40155012003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	08/16/17 09:25	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	08/16/17 09:25	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	08/16/17 09:25	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	08/16/17 09:25	
1,1-Dichloroethane	ug/L	<0.24	1.0	08/16/17 09:25	
1,1-Dichloroethene	ug/L	<0.41	1.0	08/16/17 09:25	
1,1-Dichloropropene	ug/L	<0.44	1.0	08/16/17 09:25	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	08/16/17 09:25	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	08/16/17 09:25	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	08/16/17 09:25	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	08/16/17 09:25	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	08/16/17 09:25	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	08/16/17 09:25	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	08/16/17 09:25	
1,2-Dichloroethane	ug/L	<0.17	1.0	08/16/17 09:25	
1,2-Dichloropropane	ug/L	<0.23	1.0	08/16/17 09:25	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	08/16/17 09:25	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	08/16/17 09:25	
1,3-Dichloropropane	ug/L	<0.50	1.0	08/16/17 09:25	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	08/16/17 09:25	
2,2-Dichloropropane	ug/L	<0.48	1.0	08/16/17 09:25	
2-Chlorotoluene	ug/L	<0.50	1.0	08/16/17 09:25	
4-Chlorotoluene	ug/L	<0.21	1.0	08/16/17 09:25	
Benzene	ug/L	<0.50	1.0	08/16/17 09:25	
Bromobenzene	ug/L	<0.23	1.0	08/16/17 09:25	
Bromochloromethane	ug/L	<0.34	1.0	08/16/17 09:25	
Bromodichloromethane	ug/L	<0.50	1.0	08/16/17 09:25	
Bromoform	ug/L	<0.50	1.0	08/16/17 09:25	
Bromomethane	ug/L	<2.4	5.0	08/16/17 09:25	
Carbon tetrachloride	ug/L	<0.50	1.0	08/16/17 09:25	
Chlorobenzene	ug/L	<0.50	1.0	08/16/17 09:25	
Chloroethane	ug/L	<0.37	1.0	08/16/17 09:25	
Chloroform	ug/L	<2.5	5.0	08/16/17 09:25	
Chloromethane	ug/L	<0.50	1.0	08/16/17 09:25	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	08/16/17 09:25	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	08/16/17 09:25	
Dibromochloromethane	ug/L	<0.50	1.0	08/16/17 09:25	
Dibromomethane	ug/L	<0.43	1.0	08/16/17 09:25	
Dichlorodifluoromethane	ug/L	<0.22	1.0	08/16/17 09:25	
Diisopropyl ether	ug/L	<0.50	1.0	08/16/17 09:25	
Ethylbenzene	ug/L	<0.50	1.0	08/16/17 09:25	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

METHOD BLANK: 1557446 Matrix: Water
Associated Lab Samples: 40155012001, 40155012003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	08/16/17 09:25	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	08/16/17 09:25	
m&p-Xylene	ug/L	<1.0	2.0	08/16/17 09:25	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	08/16/17 09:25	
Methylene Chloride	ug/L	<0.23	1.0	08/16/17 09:25	
n-Butylbenzene	ug/L	<0.50	1.0	08/16/17 09:25	
n-Propylbenzene	ug/L	<0.50	1.0	08/16/17 09:25	
Naphthalene	ug/L	<2.5	5.0	08/16/17 09:25	
o-Xylene	ug/L	<0.50	1.0	08/16/17 09:25	
p-Isopropyltoluene	ug/L	<0.50	1.0	08/16/17 09:25	
sec-Butylbenzene	ug/L	<2.2	5.0	08/16/17 09:25	
Styrene	ug/L	<0.50	1.0	08/16/17 09:25	
tert-Butylbenzene	ug/L	<0.18	1.0	08/16/17 09:25	
Tetrachloroethene	ug/L	<0.50	1.0	08/16/17 09:25	
Toluene	ug/L	<0.50	1.0	08/16/17 09:25	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	08/16/17 09:25	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	08/16/17 09:25	
Trichloroethene	ug/L	<0.33	1.0	08/16/17 09:25	
Trichlorofluoromethane	ug/L	<0.18	1.0	08/16/17 09:25	
Vinyl chloride	ug/L	<0.18	1.0	08/16/17 09:25	
4-Bromofluorobenzene (S)	%	92	61-130	08/16/17 09:25	
Dibromofluoromethane (S)	%	98	67-130	08/16/17 09:25	
Toluene-d8 (S)	%	107	70-130	08/16/17 09:25	

LABORATORY CONTROL SAMPLE: 1557447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	63.5	127	70-130	
1,1,2-Trichloroethane	ug/L	50	58.7	117	70-130	
1,1-Dichloroethane	ug/L	50	56.6	113	71-132	
1,1-Dichloroethene	ug/L	50	50.5	101	75-130	
1,2,4-Trichlorobenzene	ug/L	50	56.3	113	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	60.0	120	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	59.6	119	70-130	
1,2-Dichlorobenzene	ug/L	50	60.5	121	70-130	
1,2-Dichloroethane	ug/L	50	52.6	105	70-131	
1,2-Dichloropropane	ug/L	50	53.6	107	80-120	
1,3-Dichlorobenzene	ug/L	50	58.9	118	70-130	
1,4-Dichlorobenzene	ug/L	50	58.1	116	70-130	
Benzene	ug/L	50	52.1	104	73-145	
Bromodichloromethane	ug/L	50	55.1	110	70-130	
Bromoform	ug/L	50	52.8	106	67-130	
Bromomethane	ug/L	50	31.1	62	26-128	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

LABORATORY CONTROL SAMPLE: 1557447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	50.0	100	70-133	
Chlorobenzene	ug/L	50	58.9	118	70-130	
Chloroethane	ug/L	50	47.6	95	58-120	
Chloroform	ug/L	50	52.2	104	80-121	
Chloromethane	ug/L	50	33.1	66	40-127	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Dibromochloromethane	ug/L	50	60.0	120	70-130	
Dichlorodifluoromethane	ug/L	50	25.2	50	20-135	
Ethylbenzene	ug/L	50	61.0	122	87-129	
Isopropylbenzene (Cumene)	ug/L	50	62.9	126	70-130	
m&p-Xylene	ug/L	100	122	122	70-130	
Methyl-tert-butyl ether	ug/L	50	57.5	115	66-143	
Methylene Chloride	ug/L	50	53.9	108	70-130	
o-Xylene	ug/L	50	62.3	125	70-130	
Styrene	ug/L	50	61.7	123	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	58.6	117	82-130	
trans-1,2-Dichloroethene	ug/L	50	54.1	108	75-132	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	70-130	
Trichloroethene	ug/L	50	55.0	110	70-130	
Trichlorofluoromethane	ug/L	50	46.9	94	76-133	
Vinyl chloride	ug/L	50	42.2	84	57-136	
4-Bromofluorobenzene (S)	%			98	61-130	
Dibromofluoromethane (S)	%			99	67-130	
Toluene-d8 (S)	%			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1557702 1557703

Parameter	Units	40155012003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	59.3	55.7	119	111	70-134	6	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	66.6	59.6	133	119	70-130	11	20	M1
1,1,2-Trichloroethane	ug/L	<0.20	50	50	61.5	56.9	123	114	70-130	8	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	70.1	65.9	140	132	71-133	6	20	M1
1,1-Dichloroethene	ug/L	<0.41	50	50	65.0	60.4	130	121	75-136	7	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	52.1	48.4	104	97	70-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	65.9	57.3	132	115	63-123	14	20	M1
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	59.8	53.4	120	107	70-130	11	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	57.5	53.1	115	106	70-130	8	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	62.2	57.1	124	114	70-131	8	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	55.6	51.8	111	104	80-120	7	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	56.2	51.9	112	104	70-130	8	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	57.3	53.1	115	106	70-130	8	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1557702 1557703

Parameter	Units	40155012003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	57.8	54.6	116	109	73-145	6	20	
Bromodichloromethane	ug/L	<0.50	50	50	57.6	53.8	115	108	70-130	7	20	
Bromoform	ug/L	<0.50	50	50	51.3	46.6	103	93	67-130	10	20	
Bromomethane	ug/L	<2.4	50	50	42.3	41.4	85	83	26-129	2	20	
Carbon tetrachloride	ug/L	<0.50	50	50	54.1	50.1	108	100	70-134	8	20	
Chlorobenzene	ug/L	<0.50	50	50	58.2	54.9	116	110	70-130	6	20	
Chloroethane	ug/L	<0.37	50	50	63.7	59.0	127	118	58-120	8	20	M1
Chloroform	ug/L	<2.5	50	50	57.9	54.1	116	108	80-121	7	20	
Chloromethane	ug/L	<0.50	50	50	47.9	45.3	96	90	40-128	6	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	52.9	50.0	106	100	70-130	6	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	50.7	46.7	101	93	70-130	8	20	
Dibromochloromethane	ug/L	<0.50	50	50	59.6	53.5	119	107	70-130	11	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	40.7	39.1	81	78	20-146	4	20	
Ethylbenzene	ug/L	<0.50	50	50	64.4	58.4	129	117	87-129	10	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	65.3	61.1	131	122	70-130	7	20	M1
m&p-Xylene	ug/L	<1.0	100	100	128	118	128	118	70-130	8	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	68.1	61.9	136	124	66-143	10	20	
Methylene Chloride	ug/L	<0.23	50	50	67.8	63.1	136	126	70-130	7	20	M1
o-Xylene	ug/L	<0.50	50	50	63.8	57.5	128	115	70-130	10	20	
Styrene	ug/L	<0.50	50	50	65.2	59.4	130	119	70-130	9	20	
Tetrachloroethene	ug/L	<0.50	50	50	49.3	45.3	99	91	70-130	9	20	
Toluene	ug/L	<0.50	50	50	61.3	56.9	123	114	82-131	8	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	68.6	63.4	137	127	75-135	8	20	M1
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	57.1	52.5	114	105	70-130	8	20	
Trichloroethene	ug/L	<0.33	50	50	56.2	52.7	112	105	70-130	6	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	61.0	56.3	122	113	76-150	8	20	
Vinyl chloride	ug/L	<0.18	50	50	57.6	53.2	115	106	56-143	8	20	
4-Bromofluorobenzene (S)	%						108	107	61-130			
Dibromofluoromethane (S)	%						109	109	67-130			
Toluene-d8 (S)	%						115	113	70-130			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 264869 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40155012002, 40155012004, 40155012012, 40155012018

METHOD BLANK: 1558304 Matrix: Water
Associated Lab Samples: 40155012002, 40155012004, 40155012012, 40155012018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	08/17/17 11:00	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	08/17/17 11:00	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	08/17/17 11:00	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	08/17/17 11:00	
1,1-Dichloroethane	ug/L	<0.24	1.0	08/17/17 11:00	
1,1-Dichloroethene	ug/L	<0.41	1.0	08/17/17 11:00	
1,1-Dichloropropene	ug/L	<0.44	1.0	08/17/17 11:00	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	08/17/17 11:00	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	08/17/17 11:00	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	08/17/17 11:00	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	08/17/17 11:00	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	08/17/17 11:00	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	08/17/17 11:00	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	08/17/17 11:00	
1,2-Dichloroethane	ug/L	<0.17	1.0	08/17/17 11:00	
1,2-Dichloropropane	ug/L	<0.23	1.0	08/17/17 11:00	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	08/17/17 11:00	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	08/17/17 11:00	
1,3-Dichloropropane	ug/L	<0.50	1.0	08/17/17 11:00	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	08/17/17 11:00	
2,2-Dichloropropane	ug/L	<0.48	1.0	08/17/17 11:00	
2-Chlorotoluene	ug/L	<0.50	1.0	08/17/17 11:00	
4-Chlorotoluene	ug/L	<0.21	1.0	08/17/17 11:00	
Benzene	ug/L	<0.50	1.0	08/17/17 11:00	
Bromobenzene	ug/L	<0.23	1.0	08/17/17 11:00	
Bromochloromethane	ug/L	<0.34	1.0	08/17/17 11:00	
Bromodichloromethane	ug/L	<0.50	1.0	08/17/17 11:00	
Bromoform	ug/L	<0.50	1.0	08/17/17 11:00	
Bromomethane	ug/L	<2.4	5.0	08/17/17 11:00	
Carbon tetrachloride	ug/L	<0.50	1.0	08/17/17 11:00	
Chlorobenzene	ug/L	<0.50	1.0	08/17/17 11:00	
Chloroethane	ug/L	<0.37	1.0	08/17/17 11:00	
Chloroform	ug/L	<2.5	5.0	08/17/17 11:00	
Chloromethane	ug/L	<0.50	1.0	08/17/17 11:00	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	08/17/17 11:00	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	08/17/17 11:00	
Dibromochloromethane	ug/L	<0.50	1.0	08/17/17 11:00	
Dibromomethane	ug/L	<0.43	1.0	08/17/17 11:00	
Dichlorodifluoromethane	ug/L	<0.22	1.0	08/17/17 11:00	
Diisopropyl ether	ug/L	<0.50	1.0	08/17/17 11:00	
Ethylbenzene	ug/L	<0.50	1.0	08/17/17 11:00	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

METHOD BLANK: 1558304 Matrix: Water
Associated Lab Samples: 40155012002, 40155012004, 40155012012, 40155012018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	08/17/17 11:00	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	08/17/17 11:00	
m&p-Xylene	ug/L	<1.0	2.0	08/17/17 11:00	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	08/17/17 11:00	
Methylene Chloride	ug/L	0.38J	1.0	08/17/17 11:00	
n-Butylbenzene	ug/L	<0.50	1.0	08/17/17 11:00	
n-Propylbenzene	ug/L	<0.50	1.0	08/17/17 11:00	
Naphthalene	ug/L	<2.5	5.0	08/17/17 11:00	
o-Xylene	ug/L	<0.50	1.0	08/17/17 11:00	
p-Isopropyltoluene	ug/L	<0.50	1.0	08/17/17 11:00	
sec-Butylbenzene	ug/L	<2.2	5.0	08/17/17 11:00	
Styrene	ug/L	<0.50	1.0	08/17/17 11:00	
tert-Butylbenzene	ug/L	<0.18	1.0	08/17/17 11:00	
Tetrachloroethene	ug/L	<0.50	1.0	08/17/17 11:00	
Toluene	ug/L	<0.50	1.0	08/17/17 11:00	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	08/17/17 11:00	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	08/17/17 11:00	
Trichloroethene	ug/L	<0.33	1.0	08/17/17 11:00	
Trichlorofluoromethane	ug/L	<0.18	1.0	08/17/17 11:00	
Vinyl chloride	ug/L	<0.18	1.0	08/17/17 11:00	
4-Bromofluorobenzene (S)	%	98	61-130	08/17/17 11:00	
Dibromofluoromethane (S)	%	103	67-130	08/17/17 11:00	
Toluene-d8 (S)	%	100	70-130	08/17/17 11:00	

LABORATORY CONTROL SAMPLE: 1558305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	62.4	125	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.3	105	70-130	
1,1,2-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	55.1	110	71-132	
1,1-Dichloroethene	ug/L	50	51.9	104	75-130	
1,2,4-Trichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.2	84	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	56.1	112	70-130	
1,2-Dichlorobenzene	ug/L	50	56.0	112	70-130	
1,2-Dichloroethane	ug/L	50	65.0	130	70-131	
1,2-Dichloropropane	ug/L	50	56.9	114	80-120	
1,3-Dichlorobenzene	ug/L	50	56.3	113	70-130	
1,4-Dichlorobenzene	ug/L	50	54.8	110	70-130	
Benzene	ug/L	50	57.4	115	73-145	
Bromodichloromethane	ug/L	50	58.4	117	70-130	
Bromoform	ug/L	50	50.3	101	67-130	
Bromomethane	ug/L	50	24.9	50	26-128	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

LABORATORY CONTROL SAMPLE: 1558305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	62.8	126	70-133	
Chlorobenzene	ug/L	50	56.7	113	70-130	
Chloroethane	ug/L	50	44.3	89	58-120	
Chloroform	ug/L	50	62.2	124	80-121	L1
Chloromethane	ug/L	50	27.0	54	40-127	
cis-1,2-Dichloroethene	ug/L	50	56.3	113	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.5	109	70-130	
Dibromochloromethane	ug/L	50	55.7	111	70-130	
Dichlorodifluoromethane	ug/L	50	32.9	66	20-135	
Ethylbenzene	ug/L	50	58.6	117	87-129	
Isopropylbenzene (Cumene)	ug/L	50	58.9	118	70-130	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	53.8	108	66-143	
Methylene Chloride	ug/L	50	48.7	97	70-130	
o-Xylene	ug/L	50	57.7	115	70-130	
Styrene	ug/L	50	58.4	117	70-130	
Tetrachloroethene	ug/L	50	55.2	110	70-130	
Toluene	ug/L	50	56.5	113	82-130	
trans-1,2-Dichloroethene	ug/L	50	55.0	110	75-132	
trans-1,3-Dichloropropene	ug/L	50	52.1	104	70-130	
Trichloroethene	ug/L	50	60.1	120	70-130	
Trichlorofluoromethane	ug/L	50	56.8	114	76-133	
Vinyl chloride	ug/L	50	40.6	81	57-136	
4-Bromofluorobenzene (S)	%			100	61-130	
Dibromofluoromethane (S)	%			109	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558442 1558443

Parameter	Units	40155121004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	65.8	60.7	132	121	70-134	8	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	52.6	54.2	105	108	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	55.4	55.9	111	112	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	55.9	53.2	112	106	71-133	5	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	54.6	51.5	109	103	75-136	6	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	51.4	51.1	103	102	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	46.1	49.3	92	99	63-123	7	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	56.8	58.5	114	117	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	54.5	56.4	109	113	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	65.8	64.2	132	128	70-131	3	20	M1
1,2-Dichloropropane	ug/L	<0.23	50	50	56.7	54.0	113	108	80-120	5	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	55.3	55.4	111	111	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	54.4	56.1	109	112	70-130	3	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558442 1558443

Parameter	Units	40155121004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	59.8	55.6	120	111	73-145	7	20	
Bromodichloromethane	ug/L	<0.50	50	50	58.1	54.9	116	110	70-130	6	20	
Bromoform	ug/L	<0.50	50	50	49.9	51.3	100	103	67-130	3	20	
Bromomethane	ug/L	<2.4	50	50	29.8	28.1	60	56	26-129	6	20	
Carbon tetrachloride	ug/L	<0.50	50	50	66.4	63.3	133	127	70-134	5	20	
Chlorobenzene	ug/L	<0.50	50	50	56.7	57.0	113	114	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	49.9	48.6	100	97	58-120	3	20	
Chloroform	ug/L	<2.5	50	50	62.2	59.9	124	120	80-121	4	20	M0
Chloromethane	ug/L	<0.50	50	50	32.0	30.3	64	61	40-128	5	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	55.4	55.6	111	111	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	55.0	53.5	110	107	70-130	3	20	
Dibromochloromethane	ug/L	<0.50	50	50	56.6	56.3	113	113	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	45.7	44.6	91	89	20-146	2	20	
Ethylbenzene	ug/L	<0.50	50	50	57.9	56.7	116	113	87-129	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	58.8	59.3	118	119	70-130	1	20	
m&p-Xylene	ug/L	<1.0	100	100	114	115	114	115	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	54.2	52.5	108	105	66-143	3	20	
Methylene Chloride	ug/L	<0.23	50	50	50.4	47.4	101	95	70-130	6	20	
o-Xylene	ug/L	<0.50	50	50	57.7	57.5	115	115	70-130	0	20	
Styrene	ug/L	<0.50	50	50	58.9	58.1	118	116	70-130	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	54.7	55.4	109	111	70-130	1	20	
Toluene	ug/L	<0.50	50	50	57.6	56.4	115	113	82-131	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	55.9	54.5	112	109	75-135	3	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	52.5	50.5	105	101	70-130	4	20	
Trichloroethene	ug/L	<0.33	50	50	60.3	59.9	121	120	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	62.3	59.1	125	118	76-150	5	20	
Vinyl chloride	ug/L	<0.18	50	50	50.1	46.9	100	94	56-143	7	20	
4-Bromofluorobenzene (S)	%						101	104	61-130			
Dibromofluoromethane (S)	%						110	104	67-130			
Toluene-d8 (S)	%						99	98	70-130			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265928 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40155012005, 40155012006, 40155012007, 40155012008, 40155012009, 40155012010, 40155012011, 40155012013, 40155012014, 40155012015, 40155012016, 40155012017

METHOD BLANK: 1563732 Matrix: Solid
Associated Lab Samples: 40155012005, 40155012006, 40155012007, 40155012008, 40155012009, 40155012010, 40155012011, 40155012013, 40155012014, 40155012015, 40155012016, 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	08/29/17 03:55	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	08/29/17 03:55	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	08/29/17 03:55	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	08/29/17 03:55	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	08/29/17 03:55	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	08/29/17 03:55	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	08/29/17 03:55	
Decachlorobiphenyl (S)	%	84	53-105	08/29/17 03:55	
Tetrachloro-m-xylene (S)	%	78	50-102	08/29/17 03:55	

LABORATORY CONTROL SAMPLE: 1563733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	391	78	59-106	
Decachlorobiphenyl (S)	%			86	53-105	
Tetrachloro-m-xylene (S)	%			81	50-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563734 1563735

Parameter	Units	40155012005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<26.5			<26.5	<26.5					20	
PCB-1221 (Aroclor 1221)	ug/kg	<26.5			<26.5	<26.5					20	
PCB-1232 (Aroclor 1232)	ug/kg	<26.5			<26.5	<26.5					20	
PCB-1242 (Aroclor 1242)	ug/kg	<26.5			<26.5	<26.5					20	
PCB-1248 (Aroclor 1248)	ug/kg	<26.5			<26.5	<26.5					20	
PCB-1254 (Aroclor 1254)	ug/kg	<26.5			<26.5	<26.5					20	
PCB-1260 (Aroclor 1260)	ug/kg	<26.5	529	529	400	423	76	80	51-109	6	20	
Decachlorobiphenyl (S)	%						79	81	53-105			
Tetrachloro-m-xylene (S)	%						77	84	50-102			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 264895 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40155012002, 40155012003, 40155012004, 40155012012, 40155012018

METHOD BLANK: 1558453 Matrix: Water
Associated Lab Samples: 40155012002, 40155012003, 40155012004, 40155012012, 40155012018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.12	0.25	08/18/17 22:03	
PCB-1221 (Aroclor 1221)	ug/L	<0.12	0.25	08/18/17 22:03	
PCB-1232 (Aroclor 1232)	ug/L	<0.12	0.25	08/18/17 22:03	
PCB-1242 (Aroclor 1242)	ug/L	<0.12	0.25	08/18/17 22:03	
PCB-1248 (Aroclor 1248)	ug/L	<0.12	0.25	08/18/17 22:03	
PCB-1254 (Aroclor 1254)	ug/L	<0.12	0.25	08/18/17 22:03	
PCB-1260 (Aroclor 1260)	ug/L	<0.12	0.25	08/18/17 22:03	
Decachlorobiphenyl (S)	%	71	35-125	08/18/17 22:03	
Tetrachloro-m-xylene (S)	%	82	48-123	08/18/17 22:03	

LABORATORY CONTROL SAMPLE & LCSD: 1558454 1558455

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L		<0.12	<0.12					20	
PCB-1221 (Aroclor 1221)	ug/L		<0.12	<0.12					20	
PCB-1232 (Aroclor 1232)	ug/L		<0.12	<0.12					20	
PCB-1242 (Aroclor 1242)	ug/L		<0.12	<0.12					20	
PCB-1248 (Aroclor 1248)	ug/L		<0.12	<0.12					20	
PCB-1254 (Aroclor 1254)	ug/L		<0.12	<0.12					20	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.2	2.2	86	88	67-112	2	20	
Decachlorobiphenyl (S)	%				75	90	35-125			
Tetrachloro-m-xylene (S)	%				98	81	48-123			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265454
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40155012005, 40155012013

METHOD BLANK: 1561078
Matrix: Solid
Associated Lab Samples: 40155012005, 40155012013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	08/23/17 17:22	
2-Methylnaphthalene	ug/kg	<5.0	16.7	08/23/17 17:22	
Acenaphthene	ug/kg	<3.9	12.9	08/23/17 17:22	
Acenaphthylene	ug/kg	<3.3	11.0	08/23/17 17:22	
Anthracene	ug/kg	<5.7	19.0	08/23/17 17:22	
Benzo(a)anthracene	ug/kg	<3.2	10.6	08/23/17 17:22	
Benzo(a)pyrene	ug/kg	<2.5	8.4	08/23/17 17:22	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	08/23/17 17:22	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	08/23/17 17:22	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	08/23/17 17:22	
Chrysene	ug/kg	<3.4	11.2	08/23/17 17:22	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	08/23/17 17:22	
Fluoranthene	ug/kg	<5.2	17.4	08/23/17 17:22	
Fluorene	ug/kg	<4.1	13.8	08/23/17 17:22	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	08/23/17 17:22	
Naphthalene	ug/kg	<8.4	28.1	08/23/17 17:22	
Phenanthrene	ug/kg	<11.7	38.8	08/23/17 17:22	
Pyrene	ug/kg	<4.5	15.0	08/23/17 17:22	
2-Fluorobiphenyl (S)	%	56	19-96	08/23/17 17:22	
Terphenyl-d14 (S)	%	77	31-98	08/23/17 17:22	

LABORATORY CONTROL SAMPLE: 1561079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	242	72	49-102	
2-Methylnaphthalene	ug/kg	333	255	77	47-91	
Acenaphthene	ug/kg	333	273	82	52-97	
Acenaphthylene	ug/kg	333	267	80	49-97	
Anthracene	ug/kg	333	275	83	62-101	
Benzo(a)anthracene	ug/kg	333	273	82	53-95	
Benzo(a)pyrene	ug/kg	333	277	83	57-108	
Benzo(b)fluoranthene	ug/kg	333	252	76	53-113	
Benzo(g,h,i)perylene	ug/kg	333	171	51	43-114	
Benzo(k)fluoranthene	ug/kg	333	312	93	66-116	
Chrysene	ug/kg	333	287	86	64-109	
Dibenz(a,h)anthracene	ug/kg	333	241	72	50-105	
Fluoranthene	ug/kg	333	297	89	58-107	
Fluorene	ug/kg	333	277	83	52-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	212	64	51-113	
Naphthalene	ug/kg	333	243	73	50-91	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

LABORATORY CONTROL SAMPLE: 1561079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	280	84	57-101	
Pyrene	ug/kg	333	282	85	50-102	
2-Fluorobiphenyl (S)	%			76	19-96	
Terphenyl-d14 (S)	%			83	31-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1561080 1561081

Parameter	Units	40155012005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<4.3	353	354	218	222	62	63	37-102	2	29	
2-Methylnaphthalene	ug/kg	<5.3	353	354	224	228	64	65	44-91	2	36	
Acenaphthene	ug/kg	<4.1	353	354	233	249	66	71	46-97	7	26	
Acenaphthylene	ug/kg	<3.5	353	354	228	245	65	69	47-97	7	29	
Anthracene	ug/kg	<6.1	353	354	247	257	70	73	50-101	4	28	
Benzo(a)anthracene	ug/kg	<3.4	353	354	235	239	67	68	48-95	2	28	
Benzo(a)pyrene	ug/kg	<2.7	353	354	235	242	66	69	47-108	3	36	
Benzo(b)fluoranthene	ug/kg	<3.0	353	354	228	242	65	68	42-113	6	34	
Benzo(g,h,i)perylene	ug/kg	<2.2	353	354	247	259	70	73	18-114	5	30	
Benzo(k)fluoranthene	ug/kg	<2.7	353	354	239	247	68	70	50-116	3	27	
Chrysene	ug/kg	<3.6	353	354	241	248	68	70	55-109	3	28	
Dibenz(a,h)anthracene	ug/kg	<2.4	353	354	247	260	70	73	39-105	5	29	
Fluoranthene	ug/kg	<5.5	353	354	251	259	71	73	41-107	3	28	
Fluorene	ug/kg	<4.4	353	354	231	245	66	69	48-99	6	28	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.3	353	354	239	250	68	71	27-113	5	30	
Naphthalene	ug/kg	<8.9	353	354	218	222	62	63	40-91	2	37	
Phenanthrene	ug/kg	<12.3	353	354	238	250	67	71	46-101	5	40	
Pyrene	ug/kg	<4.8	353	354	229	230	65	65	50-102	1	31	
2-Fluorobiphenyl (S)	%						63	69	19-96			
Terphenyl-d14 (S)	%						62	64	31-98			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 266023
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40155012017

METHOD BLANK: 1563982
Matrix: Solid
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	08/29/17 13:40	
2-Methylnaphthalene	ug/kg	<5.0	16.7	08/29/17 13:40	
Acenaphthene	ug/kg	<3.9	12.9	08/29/17 13:40	
Acenaphthylene	ug/kg	<3.3	11.0	08/29/17 13:40	
Anthracene	ug/kg	<5.7	19.0	08/29/17 13:40	
Benzo(a)anthracene	ug/kg	<3.2	10.6	08/29/17 13:40	
Benzo(a)pyrene	ug/kg	<2.5	8.4	08/29/17 13:40	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	08/29/17 13:40	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	08/29/17 13:40	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	08/29/17 13:40	
Chrysene	ug/kg	<3.4	11.2	08/29/17 13:40	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	08/29/17 13:40	
Fluoranthene	ug/kg	<5.2	17.4	08/29/17 13:40	
Fluorene	ug/kg	<4.1	13.8	08/29/17 13:40	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	08/29/17 13:40	
Naphthalene	ug/kg	<8.4	28.1	08/29/17 13:40	
Phenanthrene	ug/kg	<11.7	38.8	08/29/17 13:40	
Pyrene	ug/kg	<4.5	15.0	08/29/17 13:40	
2-Fluorobiphenyl (S)	%	66	19-96	08/29/17 13:40	
Terphenyl-d14 (S)	%	86	31-98	08/29/17 13:40	

LABORATORY CONTROL SAMPLE: 1563983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	275	82	49-102	
2-Methylnaphthalene	ug/kg	333	278	83	47-91	
Acenaphthene	ug/kg	333	272	82	52-97	
Acenaphthylene	ug/kg	333	275	82	49-97	
Anthracene	ug/kg	333	284	85	62-101	
Benzo(a)anthracene	ug/kg	333	276	83	53-95	
Benzo(a)pyrene	ug/kg	333	294	88	57-108	
Benzo(b)fluoranthene	ug/kg	333	298	89	53-113	
Benzo(g,h,i)perylene	ug/kg	333	301	90	43-114	
Benzo(k)fluoranthene	ug/kg	333	290	87	66-116	
Chrysene	ug/kg	333	295	88	64-109	
Dibenz(a,h)anthracene	ug/kg	333	299	90	50-105	
Fluoranthene	ug/kg	333	293	88	58-107	
Fluorene	ug/kg	333	281	84	52-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	301	90	51-113	
Naphthalene	ug/kg	333	255	76	50-91	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

LABORATORY CONTROL SAMPLE: 1563983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	282	85	57-101	
Pyrene	ug/kg	333	288	86	50-102	
2-Fluorobiphenyl (S)	%			80	19-96	
Terphenyl-d14 (S)	%			86	31-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563984 1563985

Parameter	Units	40155333007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<5.3	441	441	430	348	97	78	37-102	21	29	
2-Methylnaphthalene	ug/kg	<6.6	441	441	445	348	101	78	44-91	25	36	M1
Acenaphthene	ug/kg	<5.1	441	441	375	323	85	73	46-97	15	26	
Acenaphthylene	ug/kg	<4.4	441	441	336	329	76	75	47-97	2	29	
Anthracene	ug/kg	<7.6	441	441	352	329	80	74	50-101	7	28	
Benzo(a)anthracene	ug/kg	<4.2	441	441	319	312	73	71	48-95	2	28	
Benzo(a)pyrene	ug/kg	<3.3	441	441	326	317	74	72	47-108	3	36	
Benzo(b)fluoranthene	ug/kg	<3.7	441	441	328	326	74	74	42-113	1	34	
Benzo(g,h,i)perylene	ug/kg	<2.7	441	441	349	342	79	77	18-114	2	30	
Benzo(k)fluoranthene	ug/kg	<3.3	441	441	330	318	75	72	50-116	4	27	
Chrysene	ug/kg	<4.5	441	441	336	332	76	75	55-109	1	28	
Dibenz(a,h)anthracene	ug/kg	<3.0	441	441	350	338	79	77	39-105	3	29	
Fluoranthene	ug/kg	<6.9	441	441	341	329	77	74	41-107	4	28	
Fluorene	ug/kg	<5.5	441	441	355	329	80	74	48-99	8	28	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.9	441	441	349	340	79	77	27-113	3	30	
Naphthalene	ug/kg	<11.2	441	441	567	315	128	70	40-91	57	37	M1,R1
Phenanthrene	ug/kg	<15.4	441	441	385	330	86	73	46-101	15	40	
Pyrene	ug/kg	<6.0	441	441	363	336	82	76	50-102	8	31	
2-Fluorobiphenyl (S)	%						74	65	19-96			
Terphenyl-d14 (S)	%						78	68	31-98			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265605
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 TCLP MSSV
Associated Lab Samples: 40155012017

METHOD BLANK: 1561815 Matrix: Water
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	<3.8	12.5	08/24/17 14:01	
2,4,5-Trichlorophenol	ug/L	<1.7	5.6	08/24/17 14:01	
2,4,6-Trichlorophenol	ug/L	<4.2	14.1	08/24/17 14:01	
2,4-Dinitrotoluene	ug/L	<1.6	5.3	08/24/17 14:01	
2-Methylphenol(o-Cresol)	ug/L	<1.7	5.8	08/24/17 14:01	
3&4-Methylphenol(m&p Cresol)	ug/L	<3.1	10.4	08/24/17 14:01	
Hexachloro-1,3-butadiene	ug/L	<4.9	16.4	08/24/17 14:01	
Hexachlorobenzene	ug/L	<3.4	11.3	08/24/17 14:01	
Hexachloroethane	ug/L	<5.3	17.7	08/24/17 14:01	
Nitrobenzene	ug/L	<2.9	9.7	08/24/17 14:01	
Pentachlorophenol	ug/L	<2.9	9.6	08/24/17 14:01	
Pyridine	ug/L	<3.6	11.9	08/24/17 14:01	
2,4,6-Tribromophenol (S)	%	105	65-140	08/24/17 14:01	
2-Fluorobiphenyl (S)	%	88	59-109	08/24/17 14:01	
Nitrobenzene-d5 (S)	%	85	53-100	08/24/17 14:01	
Phenol-d6 (S)	%	33	18-120	08/24/17 14:01	

METHOD BLANK: 1558180 Matrix: Water
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	<18.8	62.5	08/24/17 16:29	
2,4,5-Trichlorophenol	ug/L	<8.4	28.0	08/24/17 16:29	
2,4,6-Trichlorophenol	ug/L	<21.1	70.4	08/24/17 16:29	
2,4-Dinitrotoluene	ug/L	<7.9	26.4	08/24/17 16:29	
2-Methylphenol(o-Cresol)	ug/L	<8.7	28.9	08/24/17 16:29	
3&4-Methylphenol(m&p Cresol)	ug/L	<15.6	52.0	08/24/17 16:29	
Hexachloro-1,3-butadiene	ug/L	<24.6	82.0	08/24/17 16:29	
Hexachlorobenzene	ug/L	<16.9	56.4	08/24/17 16:29	
Hexachloroethane	ug/L	<26.6	88.6	08/24/17 16:29	
Nitrobenzene	ug/L	<14.5	48.3	08/24/17 16:29	
Pentachlorophenol	ug/L	<14.3	47.8	08/24/17 16:29	
Pyridine	ug/L	<17.9	59.6	08/24/17 16:29	
2,4,6-Tribromophenol (S)	%	108	65-140	08/24/17 16:29	
2-Fluorobiphenyl (S)	%	92	59-109	08/24/17 16:29	
Nitrobenzene-d5 (S)	%	94	53-100	08/24/17 16:29	
Phenol-d6 (S)	%	36	18-120	08/24/17 16:29	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

METHOD BLANK: 1558528 Matrix: Water
Associated Lab Samples: 40155012017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	<18.8	62.5	08/24/17 16:51	
2,4,5-Trichlorophenol	ug/L	<8.4	28.0	08/24/17 16:51	
2,4,6-Trichlorophenol	ug/L	<21.1	70.4	08/24/17 16:51	
2,4-Dinitrotoluene	ug/L	<7.9	26.4	08/24/17 16:51	
2-Methylphenol(o-Cresol)	ug/L	<8.7	28.9	08/24/17 16:51	
3&4-Methylphenol(m&p Cresol)	ug/L	<15.6	52.0	08/24/17 16:51	
Hexachloro-1,3-butadiene	ug/L	<24.6	82.0	08/24/17 16:51	
Hexachlorobenzene	ug/L	<16.9	56.4	08/24/17 16:51	
Hexachloroethane	ug/L	<26.6	88.6	08/24/17 16:51	
Nitrobenzene	ug/L	<14.5	48.3	08/24/17 16:51	
Pentachlorophenol	ug/L	<14.3	47.8	08/24/17 16:51	
Pyridine	ug/L	<17.9	59.6	08/24/17 16:51	
2,4,6-Tribromophenol (S)	%	110	65-140	08/24/17 16:51	
2-Fluorobiphenyl (S)	%	84	59-109	08/24/17 16:51	
Nitrobenzene-d5 (S)	%	92	53-100	08/24/17 16:51	
Phenol-d6 (S)	%	34	18-120	08/24/17 16:51	

LABORATORY CONTROL SAMPLE: 1561816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	36.0	72	44-84	
2,4,5-Trichlorophenol	ug/L	50	37.4	75	63-127	
2,4,6-Trichlorophenol	ug/L	50	38.0	76	65-125	
2,4-Dinitrotoluene	ug/L	50	45.1	90	68-137	
2-Methylphenol(o-Cresol)	ug/L	50	36.6	73	54-103	
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.8	64	50-95	
Hexachloro-1,3-butadiene	ug/L	50	43.5	87	57-100	
Hexachlorobenzene	ug/L	50	44.5	89	70-130	
Hexachloroethane	ug/L	50	37.4	75	41-130	
Nitrobenzene	ug/L	50	42.0	84	70-130	
Pentachlorophenol	ug/L	50	37.9	76	57-121	
Pyridine	ug/L	50	19.0	38	10-79	
2,4,6-Tribromophenol (S)	%			110	65-140	
2-Fluorobiphenyl (S)	%			86	59-109	
Nitrobenzene-d5 (S)	%			100	53-100	
Phenol-d6 (S)	%			36	18-120	

MATRIX SPIKE SAMPLE: 1561817

Parameter	Units	40155012017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<18.8	250	187	75	42-96	
2,4,5-Trichlorophenol	ug/L	<8.4	250	203	81	49-127	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

MATRIX SPIKE SAMPLE: 1561817

Parameter	Units	40155012017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	<21.1	250	206	82	52-125	
2,4-Dinitrotoluene	ug/L	<7.9	250	246	99	56-137	
2-Methylphenol(o-Cresol)	ug/L	<8.7	250	170	68	29-103	
3&4-Methylphenol(m&p Cresol)	ug/L	<15.6	250	150	60	21-95	
Hexachloro-1,3-butadiene	ug/L	<24.6	250	224	89	52-100	
Hexachlorobenzene	ug/L	<16.9	250	229	91	67-130	
Hexachloroethane	ug/L	<26.6	250	196	78	41-130	
Nitrobenzene	ug/L	<14.5	250	201	81	61-130	
Pentachlorophenol	ug/L	<14.3	250	207	83	44-134	
Pyridine	ug/L	<17.9	250	118	47	10-79	
2,4,6-Tribromophenol (S)	%				117	65-140	
2-Fluorobiphenyl (S)	%				85	59-109	
Nitrobenzene-d5 (S)	%				88	53-100	
Phenol-d6 (S)	%				34	18-120	

MATRIX SPIKE SAMPLE: 1561818

Parameter	Units	40155087001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<1.2 mg/L	250	<375	73	42-96	
2,4,5-Trichlorophenol	ug/L	<0.56 mg/L	250	<168	64	49-127	
2,4,6-Trichlorophenol	ug/L	<1.4 mg/L	250	<423	45	52-125	M6
2,4-Dinitrotoluene	ug/L	<0.53 mg/L	250	<158	41	56-137	M6
2-Methylphenol(o-Cresol)	ug/L	<0.58 mg/L	250	177J	71	29-103	
3&4-Methylphenol(m&p Cresol)	ug/L	<1.0 mg/L	250	<312	57	21-95	
Hexachloro-1,3-butadiene	ug/L	<1.6 mg/L	250	<492	91	52-100	
Hexachlorobenzene	ug/L	<1.1 mg/L	250	<339	86	67-130	
Hexachloroethane	ug/L	<1.8 mg/L	250	<532	78	41-130	
Nitrobenzene	ug/L	<0.97 mg/L	250	<290	83	61-130	
Pentachlorophenol	ug/L	<0.96 mg/L	250	<287	40	44-134	M6
Pyridine	ug/L	<1.2 mg/L	250	<358	0	10-79	M6
2,4,6-Tribromophenol (S)	%				79	65-140	
2-Fluorobiphenyl (S)	%				73	59-109	
Nitrobenzene-d5 (S)	%				85	53-100	
Phenol-d6 (S)	%				32	18-120	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 264867 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40155012002, 40155012003, 40155012004, 40155012012, 40155012018

METHOD BLANK: 1558285 Matrix: Water
Associated Lab Samples: 40155012002, 40155012003, 40155012004, 40155012012, 40155012018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	08/17/17 12:29	
2-Methylnaphthalene	ug/L	<0.0049	0.024	08/17/17 12:29	
Acenaphthene	ug/L	<0.0061	0.030	08/17/17 12:29	
Acenaphthylene	ug/L	<0.0050	0.025	08/17/17 12:29	
Anthracene	ug/L	<0.010	0.052	08/17/17 12:29	
Benzo(a)anthracene	ug/L	<0.0076	0.038	08/17/17 12:29	
Benzo(a)pyrene	ug/L	<0.011	0.053	08/17/17 12:29	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	08/17/17 12:29	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	08/17/17 12:29	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	08/17/17 12:29	
Chrysene	ug/L	<0.013	0.065	08/17/17 12:29	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	08/17/17 12:29	
Fluoranthene	ug/L	<0.011	0.053	08/17/17 12:29	
Fluorene	ug/L	<0.0080	0.040	08/17/17 12:29	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	08/17/17 12:29	
Naphthalene	ug/L	<0.018	0.092	08/17/17 12:29	
Phenanthrene	ug/L	<0.014	0.069	08/17/17 12:29	
Pyrene	ug/L	0.011J	0.038	08/17/17 12:29	
Total PAHs	ug/L	0.022		08/17/17 12:29	
2-Fluorobiphenyl (S)	%	52	35-84	08/17/17 12:29	
Terphenyl-d14 (S)	%	92	10-129	08/17/17 12:29	

LABORATORY CONTROL SAMPLE: 1558286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.0	51	39-83	
2-Methylnaphthalene	ug/L	2	0.97	49	38-86	
Acenaphthene	ug/L	2	1.1	56	35-85	
Acenaphthylene	ug/L	2	1.1	57	31-88	
Anthracene	ug/L	2	1.4	70	47-104	
Benzo(a)anthracene	ug/L	2	1.3	63	36-105	
Benzo(a)pyrene	ug/L	2	1.8	88	69-117	
Benzo(b)fluoranthene	ug/L	2	1.4	68	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.78	39	13-86	
Benzo(k)fluoranthene	ug/L	2	1.8	90	63-128	
Chrysene	ug/L	2	2.1	105	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.68	34	10-87	
Fluoranthene	ug/L	2	1.4	71	57-103	
Fluorene	ug/L	2	1.2	58	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.0	50	40-111	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

LABORATORY CONTROL SAMPLE: 1558286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.0	51	39-82	
Phenanthrene	ug/L	2	1.2	61	46-96	
Pyrene	ug/L	2	1.6	81	57-110	
Total PAHs	ug/L		22.8			
2-Fluorobiphenyl (S)	%			51	35-84	
Terphenyl-d14 (S)	%			86	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558287 1558288

Parameter	Units	40155012003 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	<0.0057	2	1.9	1.0	1.1	53	59	27-86	9	29	
2-Methylnaphthalene	ug/L	<0.0048	2	1.9	1.0	1.1	52	58	30-86	9	35	
Acenaphthene	ug/L	<0.0059	2	1.9	1.1	1.1	57	59	28-85	2	29	
Acenaphthylene	ug/L	<0.0048	2	1.9	1.1	1.1	58	58	27-88	3	29	
Anthracene	ug/L	<0.010	2	1.9	1.3	1.3	65	67	38-104	0	35	
Benzo(a)anthracene	ug/L	<0.0073	2	1.9	1.1	1.2	58	61	10-105	3	28	
Benzo(a)pyrene	ug/L	<0.010	2	1.9	1.2	1.4	62	71	10-130	11	26	
Benzo(b)fluoranthene	ug/L	<0.0056	2	1.9	1.2	1.1	60	56	10-115	8	25	
Benzo(g,h,i)perylene	ug/L	<0.0066	2	1.9	0.41	0.48	21	25	10-87	16	42	
Benzo(k)fluoranthene	ug/L	<0.0073	2	1.9	1.3	1.4	68	74	10-133	6	25	
Chrysene	ug/L	<0.013	2	1.9	1.7	1.8	87	91	17-150	3	24	
Dibenz(a,h)anthracene	ug/L	<0.0097	2	1.9	0.41	0.46	21	24	10-89	11	49	
Fluoranthene	ug/L	<0.010	2	1.9	1.3	1.3	64	69	41-103	6	32	
Fluorene	ug/L	<0.0077	2	1.9	1.1	1.1	58	57	32-85	2	28	
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	2	1.9	0.67	0.72	34	37	10-111	7	37	
Naphthalene	ug/L	<0.018	2	1.9	1.1	1.1	55	59	23-88	4	28	
Phenanthrene	ug/L	<0.013	2	1.9	1.1	1.1	58	58	33-96	2	25	
Pyrene	ug/L	0.016J	2	1.9	1.5	1.5	75	79	38-110	3	28	
Total PAHs	ug/L	0.024			19.7	20.4				4		
2-Fluorobiphenyl (S)	%						54	53	35-84			
Terphenyl-d14 (S)	%						73	82	10-129			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 264692
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40155012017

SAMPLE DUPLICATE: 1557306

Parameter	Units	40154995002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.9	4.9	1	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265126 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40155012005, 40155012006, 40155012007, 40155012008, 40155012009, 40155012010, 40155012011, 40155012013, 40155012014, 40155012015, 40155012016

SAMPLE DUPLICATE: 1559574

Parameter	Units	40155012005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.5	6.1	9	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 264858
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 40155012017, 40155012018

LABORATORY CONTROL SAMPLE: 1558232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		81.0			

SAMPLE DUPLICATE: 1558736

Parameter	Units	40155012018 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>210	>210			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 264880
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 40155012018

METHOD BLANK: 1558363 Matrix: Water
Associated Lab Samples: 40155012018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	08/17/17 11:03	

LABORATORY CONTROL SAMPLE: 1558364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	100	100	80-120	

SAMPLE DUPLICATE: 1558365

Parameter	Units	40154991001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	88.8	88.8	0	5	

SAMPLE DUPLICATE: 1558366

Parameter	Units	40155017004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	245	295	19	5	R1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265386
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 40155012018

SAMPLE DUPLICATE: 1560825

Parameter	Units	40155012018 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.8	7.9	1	5	H6

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265383
QC Batch Method: EPA 9040
Analysis Method: EPA 9040
Analysis Description: 9040 pH
Associated Lab Samples: 40155012017

SAMPLE DUPLICATE: 1560792

Parameter	Units	40155012017 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.9	8.0	1	20	H6

SAMPLE DUPLICATE: 1560793

Parameter	Units	40155246001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.4	7.4	0	20	H6

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

QC Batch: 265411 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 40155012018

METHOD BLANK: 1560903 Matrix: Water
Associated Lab Samples: 40155012018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<13.4	44.8	08/23/17 12:04	

LABORATORY CONTROL SAMPLE: 1560904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	513	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1560905 1560906

Parameter	Units	40154772002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	1960	4000	4000	6140	6250	105	107	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1560907 1560908

Parameter	Units	40155047002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	21.0J	526	526	567	581	104	106	90-110	3	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: 264975

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

Batch: 265548

[IP]	Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

ANALYTE QUALIFIERS

1q	Analyte was detected in the associated method blank at a concentration of -0.012 mg/Kg.
2q	Due to the sample matrix, DI water was added to this sample on a one to one basis and the sample was stirred before analysis.
3q	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from analysis of MS/MSD sample that demonstrated similar interference).
4q	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from analysis of parent sample that demonstrated similar interference).
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

ANALYTE QUALIFIERS

M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
R1	RPD value was outside control limits.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40155012005	**SB17-04-17-19**	EPA 3541	265928	EPA 8082	265929
40155012006	**SB17-01-02-04**	EPA 3541	265928	EPA 8082	265929
40155012007	**SB17-01-01-02**	EPA 3541	265928	EPA 8082	265929
40155012008	**SB17-01-06-08**	EPA 3541	265928	EPA 8082	265929
40155012009	**SB17-02-01-02**	EPA 3541	265928	EPA 8082	265929
40155012010	**SB17-02-02-04**	EPA 3541	265928	EPA 8082	265929
40155012011	**SB17-02-05-07**	EPA 3541	265928	EPA 8082	265929
40155012013	**SB17-DUP-01**	EPA 3541	265928	EPA 8082	265929
40155012014	**SB17-03-01-02**	EPA 3541	265928	EPA 8082	265929
40155012015	**SB17-03-02-04**	EPA 3541	265928	EPA 8082	265929
40155012016	**SB17-03-05-07**	EPA 3541	265928	EPA 8082	265929
40155012017	**SB17-IDW-0815**	EPA 3541	265928	EPA 8082	265929
40155012002	**TW17-RINS-01**	EPA 3510	264895	EPA 8082	264975
40155012003	**TW17-01-0814**	EPA 3510	264895	EPA 8082	264975
40155012004	**SB17-RINS-01**	EPA 3510	264895	EPA 8082	264975
40155012012	**TW17-DUP-01**	EPA 3510	264895	EPA 8082	264975
40155012018	**TW17-IDW-0815**	EPA 3510	264895	EPA 8082	264975
40155012005	**SB17-04-17-19**	EPA 3050	265373	EPA 6010	265492
40155012006	**SB17-01-02-04**	EPA 3050	265373	EPA 6010	265492
40155012007	**SB17-01-01-02**	EPA 3050	265373	EPA 6010	265492
40155012008	**SB17-01-06-08**	EPA 3050	265373	EPA 6010	265492
40155012009	**SB17-02-01-02**	EPA 3050	265373	EPA 6010	265492
40155012010	**SB17-02-02-04**	EPA 3050	265373	EPA 6010	265492
40155012011	**SB17-02-05-07**	EPA 3050	265373	EPA 6010	265492
40155012013	**SB17-DUP-01**	EPA 3050	265373	EPA 6010	265492
40155012014	**SB17-03-01-02**	EPA 3050	265373	EPA 6010	265492
40155012015	**SB17-03-02-04**	EPA 3050	265373	EPA 6010	265492
40155012016	**SB17-03-05-07**	EPA 3050	265373	EPA 6010	265492
40155012017	**SB17-IDW-0815**	EPA 3050	265373	EPA 6010	265492
40155012017	**SB17-IDW-0815**	EPA 3010	265193	EPA 6010	265266
40155012003	**TW17-01-0814**	EPA 3010	265611	EPA 6020	265685
40155012012	**TW17-DUP-01**	EPA 3010	265611	EPA 6020	265685
40155012018	**TW17-IDW-0815**	EPA 3010	265611	EPA 6020	265685
40155012002	**TW17-RINS-01**	EPA 3010	265614	EPA 6020	265687
40155012004	**SB17-RINS-01**	EPA 3010	265614	EPA 6020	265687
40155012017	**SB17-IDW-0815**	EPA 7470	265023	EPA 7470	265082
40155012003	**TW17-01-0814**	EPA 7470	265200	EPA 7470	265273
40155012012	**TW17-DUP-01**	EPA 7470	265200	EPA 7470	265273
40155012018	**TW17-IDW-0815**	EPA 7470	265200	EPA 7470	265273
40155012002	**TW17-RINS-01**	EPA 7470	265895	EPA 7470	265968
40155012004	**SB17-RINS-01**	EPA 7470	265895	EPA 7470	265968
40155012005	**SB17-04-17-19**	EPA 7471	265504	EPA 7471	265866
40155012006	**SB17-01-02-04**	EPA 7471	265504	EPA 7471	265866
40155012007	**SB17-01-01-02**	EPA 7471	265504	EPA 7471	265866

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40155012008	**SB17-01-06-08**	EPA 7471	265504	EPA 7471	265866
40155012009	**SB17-02-01-02**	EPA 7471	265504	EPA 7471	265866
40155012010	**SB17-02-02-04**	EPA 7471	265504	EPA 7471	265866
40155012011	**SB17-02-05-07**	EPA 7471	265504	EPA 7471	265866
40155012013	**SB17-DUP-01**	EPA 7471	265504	EPA 7471	265866
40155012014	**SB17-03-01-02**	EPA 7471	265504	EPA 7471	265866
40155012015	**SB17-03-02-04**	EPA 7471	265504	EPA 7471	265866
40155012016	**SB17-03-05-07**	EPA 7471	265504	EPA 7471	265866
40155012017	**SB17-IDW-0815**	EPA 7471	265504	EPA 7471	265866
40155012005	**SB17-04-17-19**	EPA 3546	265454	EPA 8270 by SIM	265548
40155012013	**SB17-DUP-01**	EPA 3546	265454	EPA 8270 by SIM	265548
40155012017	**SB17-IDW-0815**	EPA 3546	266023	EPA 8270 by SIM	266066
40155012017	**SB17-IDW-0815**	EPA 3510	265605	EPA 8270	265664
40155012002	**TW17-RINS-01**	EPA 3510	264867	EPA 8270 by HVI	264961
40155012003	**TW17-01-0814**	EPA 3510	264867	EPA 8270 by HVI	264961
40155012004	**SB17-RINS-01**	EPA 3510	264867	EPA 8270 by HVI	264961
40155012012	**TW17-DUP-01**	EPA 3510	264867	EPA 8270 by HVI	264961
40155012018	**TW17-IDW-0815**	EPA 3510	264867	EPA 8270 by HVI	264961
40155012005	**SB17-04-17-19**	EPA 5035/5030B	264941	EPA 8260	264949
40155012013	**SB17-DUP-01**	EPA 5035/5030B	264941	EPA 8260	264949
40155012017	**SB17-IDW-0815**	EPA 5035/5030B	264941	EPA 8260	264949
40155012017	**SB17-IDW-0815**	EPA 8260	265172		
40155012001	**TW17-TRIP-01**	EPA 8260	264731		
40155012002	**TW17-RINS-01**	EPA 8260	264869		
40155012003	**TW17-01-0814**	EPA 8260	264731		
40155012004	**SB17-RINS-01**	EPA 8260	264869		
40155012012	**TW17-DUP-01**	EPA 8260	264869		
40155012018	**TW17-IDW-0815**	EPA 8260	264869		
40155012005	**SB17-04-17-19**	ASTM D2974-87	265126		
40155012006	**SB17-01-02-04**	ASTM D2974-87	265126		
40155012007	**SB17-01-01-02**	ASTM D2974-87	265126		
40155012008	**SB17-01-06-08**	ASTM D2974-87	265126		
40155012009	**SB17-02-01-02**	ASTM D2974-87	265126		
40155012010	**SB17-02-02-04**	ASTM D2974-87	265126		
40155012011	**SB17-02-05-07**	ASTM D2974-87	265126		
40155012013	**SB17-DUP-01**	ASTM D2974-87	265126		
40155012014	**SB17-03-01-02**	ASTM D2974-87	265126		
40155012015	**SB17-03-02-04**	ASTM D2974-87	265126		
40155012016	**SB17-03-05-07**	ASTM D2974-87	265126		
40155012017	**SB17-IDW-0815**	ASTM D2974-87	264692		
40155012017	**SB17-IDW-0815**	EPA 1010	264858		
40155012018	**TW17-IDW-0815**	EPA 1010	264858		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7311150004 ASHWAUBENON-GP
Pace Project No.: 40155012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40155012018	**TW17-IDW-0815**	SM 2540D	264880		
40155012018	**TW17-IDW-0815**	SM 4500-H+B	265386		
40155012017	**SB17-IDW-0815**	EPA 9040	265383		
40155012018	**TW17-IDW-0815**	EPA 410.4	265411	EPA 410.4	265520

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

40155012

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

(Please Print Clearly)	
Company Name:	Amec Foster Wheeler
Branch/Location:	Minneapolis
Project Contact:	Joe Renier
Phone:	320-963-5742
Project Number:	7311150004
Project Name:	Ashwaubenon-GP
Project State:	WI
Sampled By (Print):	Cory Vowles
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Joe Renier
Mail To Company:	Amec Foster Wheeler
Mail To Address:	800 Marquette Ave Ste 1200 Minneapolis, MN 55402
Invoice To Contact:	
Invoice To Company:	SAME
Invoice To Address:	
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	PCBs by 8082	RCRA Metals	RCRA Metals	VOC - 8260	VOC - 8260	PAH 8270/SIM	PAH /dry weight	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter	N	Y	N	N	N	N	N	Analyses Requested		
							A	D	A	B	F	A	A			
001	TW17-Trip-01	8/14/17	0915	W						X				2-40mL V B KB 8/15/17		
002	TW17-Rins-01		1000	W			X	X		X		X	3-40mL B	metals NOT filtered → LAB FILTER	KB 8/15/17 1-250mL P 1-1Lag A 2-100mag A	
003	TW17-01-0814		1030	GW			X	X		X		X	6-40mL B	extra bottles for MS/MSD	2-1Lag, 4-100mag A 2-250mL P	
004	SB17-Rins-01		1100	W			X	X		X		X	2-100mag A	metals NOT filtered → LAB FILTER	3-40mL B	
005	SB17-04-17-19		1220	S			X		X		X		X	extra bottles for MS/MSD	3-40mL B 4-4oz A	
006	SB17-01-02-04		1330				X		X					2-4oz A KB 8/15/17	1-4oz A	
007	SB17-01-01-02		1325				X		X							
008	SB17-01-06-08		1340				X		X						* All additional paperwork KB 8/15/17	
009	SB17-02-01-02		1355				X		X							
010	SB17-02-02-04		1400				X		X							
011	SB17-02-05-07		1405	↓			X		X						KB 8/15/17	
012	TW17-DUP-01		1200	GW			X	X		X	~~1-250mL P~~	~~2-100mag A~~	3-40mL B		~~1-1Lag A, 2-100mag A, 1-250mL P~~	
013	SB17-DUP-01	↓	1201	S			X		X		X		X	KB 8/15/17	2-4oz A	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Amec FW	8/15/17 1148		8/15/17 1148

PACE Project No. 40155012

Receipt Temp = [illegible] °C

Sample Receipt pH ~~OK~~ / Adjusted

Cooler Custody Seal ~~Present~~ / ~~Not Present~~ ~~Intact~~ / ~~Not Intact~~

C019a(27Jun2006) ~~A 1Lag A, 1-250mL P~~ KB 8/15/17

Version 6.0 06/14/06

ORIGINAL

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

40155012

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

(Please Print Clearly)	
Company Name:	Amec Foster Wheeler
Branch/Location:	Minneapolis
Project Contact:	Joe Renier
Phone:	320-963-5742
Project Number:	7311150004
Project Name:	Ashwaubenon - GP
Project State:	WI
Sampled By (Print):	Cory Vowles
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Joe Renier
Mail To Company:	Amec Foster Wheeler
Mail To Address:	800 Marquette Ave Ste 1200 Minneapolis, MN 55402
Invoice To Contact:	
Invoice To Company:	SAME
Invoice To Address:	
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	FILTERED? (YES/NO)	PRESERVATION (CODE)*	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	N	N	N	N	N	N	N	N	N			
					Pick Letter	A	A	F	A	A	A	A	A	A			
						PCBs by 8082	RCRA Metals	VOCs 8260B	PAHs-8270Bsim	pH	Flashpoint	TCLP-VOCs	TCLP-SVOCs	TCLP-RCRA Metals			
014	SB17-03-01-02	8/14/17	1425	S		X	X								~~1-4oz ag A~~		
015	SB17-03-02-04	↓	1430	S		X	X								↓ KBs 8/15/17	8/15/17	
016	SB17-03-05-07 cv	↓	1435	S		X	X										DCA
017	SB17-1DW-08195	8/15/17	1020	S		X	X	X	X	X	X	X	X	X	~~5-4oz ag A, 1-4oz ag A, 1-1lp A, 2-100mL ag A, 3-250mL~~		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Amec FW	8/15/17 1148		8/15/17 1148

PACE Project No.: 40155012

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

40155012

Pace Analytical®
www.pacelabs.com

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

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Amec Foster Wheeler
Branch/Location:	Minneapolis
Project Contact:	Joe Renier
Phone:	320-963-5742
Project Number:	7311150004
Project Name:	Ashwaubenon-GP
Project State:	WI
Sampled By (Print):	Cory Vowles
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Joe Renier
Mail To Company:	Amec Foster Wheeler
Mail To Address:	800 Marquette Ave, STE 1200 Minneapolis, MN 55402
Invoice To Contact:	
Invoice To Company:	SAME
Invoice To Address:	
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	Analyses Requested: PCBs 8082	RCRA Metals	VOCs-8260	PAHs-8270B SIM	COD	TSS+pH	Flashpoint	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Y/N	N	N	N	N	N	N	N							
	Pick Letter	A	D	B	A	C	A	A							
018	TW17-IDW-0815	8/15/17	1040	W		X	X	X	X	X	X	X	metals not filtered	3-40mL vB +40mL vF 3-250mL pACD, 1-1LpH, 1-1LagA 2-100mLagA	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Cory V Amec FW	8/15/17 1148		8/15/17 1148

PACE Project No. 40155012

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Sample Condition Upon Receipt

Sample Condition Upon Receipt

Client Name: AMEC FW Project # 40155012

Additional Comments/Resolution:

001 2-40mlv^{B}

002 3-40mlv^{B} 1-250mlp^{D} 1-1Lag^{A} 2-100mlag^{A}

003 6-40mlv^{B} 2-250mlp^{D} 2-1Lag^{A} 4-100mlag^{A}

004 3-40mlv^{B}

005 2-40mlv^{F} 4-4ozag^{A}

006 1-4ozag^{A}

007

008

009

010

011

012 3-40mlv^{B} 1-250mlp^{D} 1-1Lag^{A} 2-100mlag^{A}

013 1-40mlv^{F} 2-4ozag^{A}

014 1-4ozag^{A}

015

016

017 1-40mlv^{F} 5-40~~ml~~oz ag^{A}

018 3-40mlv^{B} 3-250mlp^{DAG} 1-1Lp^{A} 1-1Lag^{A} 2-100mlag^{A}

Project Manager Review: **Date:**

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: **WO#: 40155012**

40155012

Client Name: AMEC Foster Wheeler

Courier: ☐ Fed Ex ☐ UPS ☑ Client ☐ Pace Other: _____

Tracking #: _____

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

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

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

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents: Date: 8/15/17 Initials: SMB

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

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☐Yes	☑No	☐N/A	8. No MS/MSD for PCB's/met+soil VOC SMB 8/15/17
Correct Containers Used:	☐Yes	☑No	☐N/A	9. no unpreserved volume for diss Met lab to filter SMB 8/15/17
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☑No	☐N/A	11. Lab added 1-250mL pD for filtration SMB 8/16/17
Sample Labels match COC:	☐Yes	☑No	☐N/A	003-1,40mlvB ID "8/14/17", no collect date placed by time; 018-no date x1 vial KF 8/15/17
-Includes date/time/ID/Analysis Matrix: S&W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes	☐No	☐N/A	13. ☑ HNO3 ☑ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes	☐No		Initial when completed: SMB / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	14.
Trip Blank Present:	☑Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): 383				

Client Notification/ Resolution: If checked, see attached form for additional comments ☒

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CW **Date:** 8/16/17

LAB REPORT QUALITY ASSURANCE CHECKLIST

Project Information			
Project Name:	GP Ashwaubenon	Lab Name:	Pace Analytical
Project Number:	7311150004	Lab Report Number:	40155012
Sample Numbers: *(Attach list if needed)*	TW17-TRIP-01, TW17-RINS-01, TW17-01-0814, SB17-RINS-01, SB17-04-17-19, SB17-01-02-04, SB17-01-01-02, SB17-01-06-08, SB17-02-01-02, SB17-02-02-04, SB17-02-05-07, TW17-DUP-01, SB17-DUP-01, SB17-03-01-02, SB17-03-02-04, SB17-03-05-07		

Report Completeness		Comments
Are all samples listed on the COC included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☒ Yes ☐ No	
Are all analytical tests listed on the COC for each sample included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☒ Yes ☐ No	
Are all items required by the contract with the lab included in the report? *(Indicate any exceptions in the Comments column.)*	☒ Yes ☐ No	

QA Review of Lab Performance	
☒ Attached	Organic Data Assessment Summary form
☒ Attached	Inorganic Data Assessment Summary form

Field Blank QA Review		
Are there any detections in the trip blanks?	☐ Yes ☒ No ☐ NA	*If yes, identify associated samples:*
Are there any detections in the equipment blanks?	☒ Yes ☐ No ☐ NA	*If yes, identify associated samples:* The equipment rinsate samples TW17-RINS-01 and SB17-RINS-01 reported detections of dissolved barium, dissolved lead, benzo(b)fluoranthene, pyrene, and total PAHs. A number of the barium, pyrene, and total PAHs results in associated samples were less than 5x the detection in the associated blank, and thus were U-flagged as non-detects.

Invoice Review		
Did the lab meet the promised turnaround times?	☒ Yes ☐ No	*If no, does a discount apply?*
Did any problems result in unusable sample results?	☐ Yes ☒ No	*If yes, evaluate whether the lab should be paid for the analysis.*
Are all items required by the contract with the lab included in the report? *(Check against sample control log.)*	☒ Yes ☐ No	

Database Entry and the Application of Qualifiers		
Has the analytical data been entered into the database?	☒ Yes ☐ No	
Have flags that were applied as a result of this QA/QC been added to the database and/or the respective data tables?	☒ Yes ☐ No	

Completed by:	Matt Vavra	Date:	11/15/2017
Reviewed by:		Date:	

ORGANIC DATA ASSESSMENT SUMMARY

Project Information			
Project Name:	GP Ashwaubenon	Lab Name:	Pace Analytical
Project Number:	7311150004	Lab Report Number:	40155012
Reviewer's Signature:		Number of Samples:	16
Review Date:	11/15/2017	Matrix:	Soil, Water

	Assessment Summary				
	Using the codes O, J, R, U, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. X1, describe in the space provided.				
Method Name:	PCBs	PAHs	VOCs		
Method Number:	8082	8270	8260		
1. Preservation/hold times	O	O	O		
2. GC/MS tune, instr. performance	NA	NA	NA		
3. Calibrations, internal standards	O	O	O		
4. Blanks	O	X(2)	O		
5. Surrogates	O	O	X(4)		
6. Matrix spike/dup	X(1)	X(3)	X(5)		
7. Lab QC samples	O	O	X(6)		
8. Internal Standards	O	O	O		
9. Compound ID	NA	NA	NA		
10. System performance	NA	NA	NA		
11. Field duplicates	O	O	O		
12. Overall assessment	See above	See above	See above		

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

J = The results are qualified as an estimated value due to QC problems where the error was greater than specified in the method.

R = The results are unacceptable due to gross QC problems.

U = The results are qualified as non-detect due to QC problems with sample controls.

X = QC problems were identified, but they do not affect the results.

Assessment Code	Description	Action Required
X[(1)]	A MS/MSD was not performed due to insufficient sample volume.	A lack of MS/MSD is not considered a problem for these sample sets based upon accepted laboratory control samples and no other identified QC issues with the data set.
X[(2)]	Pyrene was detected in the method blank associated with soil samples.	All associated samples were non-detects and thus no impact to the data is anticipated.
X[(3)]	The MS/MSD associated with water samples for 2-methylnaphthalene and naphthalene exceeded QC and control limits.	All associated samples were non-detects and thus no impact to the data is anticipated.
X[(4)]	Surrogate recovery for Dibromofluoromethane was outside of control limits for sample SB17-04-17-19	All associated VOC results were non-detects and thus no impact to the data is anticipated.
X[(6)]	Matrix spike recovery exceeded QC limits for multiple VOCs associated with water samples.	All associated results were non-detects and thus no impact to the data is anticipated.
X[(5)]	LCS recovery for chloroform was above control limits for the QC sample associated with water samples	All associated chloroform results were non-detects and thus no impact to the data is anticipated.

INORGANIC DATA ASSESSMENT SUMMARY

Project Information			
Project Name:	GP Ashwaubenon	Lab Name:	Pace Analytical
Project Number:	7311150004	Lab Report Number:	40155012
Reviewer's Signature:		Number of Samples:	16
Review Date:	11/15/2017	Matrix:	Soil, Water

	Assessment Summary				
	Using the codes O, J, R, U, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. X1, describe in the space provided.				
Method Name:	RCRA Metals	RCRA Mercury			
Method Number:	6010/6020	7470/7471			
1. Preservation/hold times	O	O			
2. GC/MS tune, instr. performance	NA	NA			
3. Calibrations, internal standards	O	O		U(1)	
4. Blanks	O	U(1)			
5. Surrogates	NA	NA			
6. Matrix spike/dup	O	O			
7. Lab QC samples	O	O			
8. Internal Standards	O	O			
9. Compound ID	NA	NA			
10. System performance	NA	NA			
11. Field duplicates	J(1)	O			
12. Overall assessment	See above	See above			

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

J = The results are qualified as an estimated value due to QC problems where the error was greater than specified in the method.

R = The results are unacceptable due to gross QC problems.

U = The results are qualified as non-detect due to QC problems with sample controls.

X = QC problems were identified, but they do not affect the results.

Assessment Code	Description	Action Required
J[1)]	Multiple metals associated with soil failed RPD criteria between the field duplicate and primary sample	All associated detections for the associated samples will be J-flagged as estimated due to analytical and/or field imprecision
U[1)]	Mercury(0.012 mg/kg) was detected in the method blank associated with the soil samples	All detections of cadmium less than 5x that of the method blank in soil were U-flagged as non-detects.

APPENDIX D

IDW Analytical Summary Tables

Table D-1
Soil IDW Analytical Results
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

PARAMETER						Location	Soil IDW
						Sample Number	SB17-IDW-0815
						Sample Delivery Group	40155012017
						Sample Date	8/15/2017
	Soil Criteria						
	Non-Industrial RCL	Industrial RCL	Soil to Groundwater RCL	TCLP Criteria	TCLP Criteria x20		
METALS (mg/kg)							
Arsenic	0.677	3	0.292	--	100	3.0 J	
Barium	15,300	100,000	82.4	--	2,000	204	
Cadmium	71.1	985	0.376	--	20	1.4	
Chromium	--	--	180,000	--	100	48.5	
Lead	400	800	13.5	--	100	216	
Mercury	3.13	3.13	0.104	--	4	1	
Selenium	391	5,840	0.26	--	20	1.5U	
Silver	391	5,840	0.4245	--	100	1.8	
TCLP METALS (mg/L)							
Arsenic	--	--	--	5.0	--	0.042U	
Barium	--	--	--	100.0	--	0.72	
Cadmium	--	--	--	1.0	--	0.0066U	
Chromium	--	--	--	5.0	--	0.013U	
Lead	--	--	--	5.0	--	0.022U	
Mercury	--	--	--	0.2	--	0.00013U	
Selenium	--	--	--	1.0	--	0.083U	
Silver	--	--	--	5.0	--	0.017U	
POLYCHLORINATED BIPHENYLS (mg/kg)							
PCB-1016 (Aroclor 1016)	4.11	28	--	--	--	0.0359U	
PCB-1221 (Aroclor 1221)	0.213	0.883	--	--	--	0.0359U	
PCB-1232 (Aroclor 1232)	0.19	0.792	--	--	--	0.0359U	
PCB-1242 (Aroclor 1242)	0.235	0.972	--	--	--	0.56	
PCB-1248 (Aroclor 1248)	0.236	0.975	--	--	--	0.0359U	
PCB-1254 (Aroclor 1254)	0.239	0.988	--	--	--	0.571	
PCB-1260 (Aroclor 1260)	0.243	1	--	--	--	0.256	
PCB, Total	0.234	0.967	0.0047	--	--	1.39	
VOLATILE ORGANIC COMPOUNDS (mg/L)							
1,1,1,2-Tetrachloroethane	2.78	12.3	0.0267	--	--	0.100U	
1,1,1-Trichloroethane	--	--	--	--	--	0.100U	
1,1,2,2-Tetrachloroethane	0.81	3.6	0.0000782	--	--	0.100U	
1,1,2-Trichloroethane	1.59	7.01	0.0016	--	--	0.100U	
1,1-Dichloroethane	5.06	22.2	0.2417	--	--	0.100U	
1,1-Dichloroethene	320	1,190	0.0025	--	14	0.100U	
1,1-Dichloropropene	--	--	--	--	--	0.100U	
1,2,3-Trichlorobenzene	62.6	934	--	--	--	0.100U	
1,2,3-Trichloropropane	0.005	0.109	0.026	--	--	0.100U	
1,2,4-Trichlorobenzene	24	113	0.204	--	--	0.190U	
1,2,4-Trimethylbenzene	219	219	0.691	--	--	4.42	
1,2-Dibromo-3-chloropropane	0.008	0.092	0.0000864	--	--	0.365U	
1,2-Dibromoethane (EDB)	0.05	0.221	0.0000141	--	--	0.100U	
1,2-Dichlorobenzene	376	376	0.584	--	--	0.100U	
1,2-Dichloroethane	0.652	2.87	0.0014	--	10	0.100U	
1,2-Dichloropropane	0.406	1.78	0.0017	--	--	0.100U	
1,3,5-Trimethylbenzene	182	182	0.691	--	--	0.865	
1,3-Dichlorobenzene	297	297	0.5764	--	--	0.100U	
1,3-Dichloropropane	1,490	1,490	--	--	--	0.100U	
1,4-Dichlorobenzene	3.74	16.4	0.072	--	150	0.100U	
2,2-Dichloropropane	191	191	--	--	--	0.100U	
2-Chlorotoluene	907	907	--	--	--	0.100U	
4-Chlorotoluene	253	253	--	--	--	0.100U	
Benzene	1.6	7.07	0.0026	--	10	0.100U	
Bromobenzene	342	679	--	--	--	0.100U	
Bromochloromethane	216	906	--	--	--	0.100U	
Bromodichloromethane	0.418	1.83	0.0002	--	--	0.100U	
Bromoform	25.4	113	0.0012	--	--	0.100U	
Bromomethane	9.6	43	0.0025	--	--	0.280U	
Carbon tetrachloride	0.916	4.03	0.0019	--	10	0.100U	
Chlorobenzene	370	761	--	--	2,000	0.100U	
Chloroethane	--	--	0.1133	--	--	0.268U	
Chloroform	0.454	1.98	0.0017	--	120	0.186U	
Chloromethane	159	669	0.1133	--	--	0.100U	
cis-1,2-Dichloroethene	156	2,340	0.0206	--	--	0.100U	
cis-1,3-Dichloropropene	1,210	1,210	0.0001	--	--	0.100U	
Dibromochloromethane	8.28	38.9	0.016	--	--	0.100U	
Dibromomethane	34	143	--	--	--	0.100U	
Dichlorodifluoromethane	126	530	1.5431	--	--	0.100U	
Diisopropyl ether	2,260	2,260	--	--	--	0.100U	
Ethylbenzene	8.02	35.4	0.785	--	--	0.100U	
Hexachloro-1,3-butadiene	1.63	7.19	--	--	10	0.100U	
Isopropylbenzene (Cumene)	268	268	--	--	--	0.100U	
m&p-Xylene	260	260	1.98	--	--	0.200U	
Methylene Chloride	61.8	1,150	0.0013	--	--	0.100U	
Methyl-tert-butyl ether	63.8	282	0.0135	--	--	0.100U	
Naphthalene	5.52	24.1	0.3291	--	--	2.56	
n-Butylbenzene	108	108	--	--	--	2.33	
n-Propylbenzene	--	--	--	--	--	0.394	
o-Xylene	260	260	1.98	--	--	0.144 J	
p-Isopropyltoluene	162	162	--	--	--	0.917	

Table D-1
Soil IDW Analytical Results
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

PARAMETER	Location					Soil IDW
	Sample Number					SB17-IDW-0815
	Sample Delivery Group					40155012017
	Sample Date					8/15/2017
	Soil Criteria					
	Non-Industrial RCL	Industrial RCL	Soil to Groundwater RCL	TCLP Criteria	TCLP Criteria x20	
sec-Butylbenzene	145	145	--	--	--	0.594
Styrene	867	867	0.11	--	--	0.100U
tert-Butylbenzene	183	183	--	--	--	0.100U
Tetrachloroethene	33	145	0.0023	--	14	0.100U
Toluene	818	818	0.5536	--	--	0.100U
trans-1,2-Dichloroethene	1,560	1,850	0.0313	--	--	0.100U
trans-1,3-Dichloropropene	1,510	1,510	0.0001	--	--	0.100U
Trichloroethene	1.3	8.41	0.0018	--	10	0.100U
Trichlorofluoromethane	1,230	1,230	--	--	--	0.100U
Vinyl chloride	0.067	2.08	0.000069	--	4	0.100U
TCLP VOLATILE ORGANIC COMPOUNDS (mg/L)						
Benzene	--	--	--	0.5	--	0.0050U
2-Butanone (MEK)	--	--	--	200.0	--	0.0298U
Carbon tetrachloride	--	--	--	0.5	--	0.0050U
Chlorobenzene	--	--	--	100.0	--	0.0050U
Chloroform	--	--	--	6.0	--	0.0250U
1,2-Dichloroethane	--	--	--	0.5	--	0.0017U
1,1-Dichloroethene	--	--	--	0.7	--	0.0041U
Tetrachloroethene	--	--	--	0.7	--	0.0050U
Trichloroethene	--	--	--	0.5	--	0.0033U
Vinyl chloride	--	--	--	0.2	--	0.0018U
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-Methylnaphthalene	17.6	72.7	--	--	--	0.617
2-Methylnaphthalene	239	3,010	--	--	--	0.503
Acenaphthene	3,590	45,200	--	--	--	0.0763 J
Acenaphthylene	--	--	--	--	--	0.0237U
Anthracene	17,900	100,000	98.4746	--	--	0.0411U
Benzo(a)anthracene	1.14	20.8	--	--	--	0.0708 J
Benzo(a)pyrene	0.115	2.11	0.235	--	--	0.0561 J
Benzo(b)fluoranthene	1.15	21.1	--	--	--	0.0842
Benzo(g,h,i)perylene	--	--	--	--	--	0.0427 J
Benzo(k)fluoranthene	11.5	211	--	--	--	0.0269 J
Chrysene	115	2,110	0.0723	--	--	0.0694 J
Dibenz(a,h)anthracene	0.115	2.11	--	--	--	0.0161U
Fluoranthene	2,390	30,100	44.4389	--	--	0.154
Fluorene	2,390	30,100	7.415	--	--	0.0730 J
Indeno(1,2,3-cd)pyrene	1.15	21.1	--	--	--	0.0363 J
Naphthalene	5.52	24.1	0.3291	--	--	0.374
Phenanthrene	--	--	--	--	--	0.231 J
Pyrene	1,790	22,600	27.2727	--	--	0.12
TCLP SEMIVOLATILE ORGANIC COMPOUNDS (mg/L)						
1,4-Dichlorobenzene	--	--	--	7.5	--	0.0188U
2,4,5-Trichlorophenol	--	--	--	400.0	--	0.0084U
2,4,6-Trichlorophenol	--	--	--	2.0	--	0.0211U
2,4-Dinitrotoluene	--	--	--	0.13	--	0.0079U
2-Methylphenol(o-Cresol)	--	--	--	200.0	--	0.0087U
3&4-Methylphenol(m&p Cresol)	--	--	--	200.0	--	0.0156U
Hexachloro-1,3-butadiene	--	--	--	0.5	--	0.0246U
Hexachlorobenzene	--	--	--	0.13	--	0.0169U
Hexachloroethane	--	--	--	3.0	--	0.0266U
Nitrobenzene	--	--	--	2.0	--	0.0145U
Pentachlorophenol	--	--	--	100.0	--	0.0143U
Pyridine	--	--	--	5.0	--	0.0179U
WET CHEMISTRY						
pH	--	--	--	--	--	7.9
Flashpoint	--	--	--	--	--	>210

Notes:
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
J = Estimated concentration
U = Parameter not detected above
TCLP = Toxicity Characteristic Leaching Procedure
Regulatory Criteria
-- = Criteria not established
Cells are highlighted based upon the highest regulatory criteria the analyte detection exceeds per the following colors;
= Parameter detected above Non-Industrial RCL
= Parameter detected above Industrial RCL
= Parameter detected above Soil to Groundwater RCL
= Parameter detected above Toxicity Characteristic
= Parameter detected above Toxicity Characteristic x20
Wisconsin DNR Resources for Environmental Professionals - Soil Residual Contaminant Levels [accessed 10/03/2017] http://dnr.wi.gov/topic/brownfields/professionals.html
Maximum Concentration of Contaminants for the Toxicity Characteristic - Hazardous Waste Identification and Listing [accessed 10/03/2017] docs.legis.wisconsin.gov/code/admin_code/nr/600/661.pdf#page=14

Table D-2
Groundwater IDW Analytical Results
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

PARAMETER	Well Identification			Groundwater IDW
	Sample Number			TW16-IDW
	Sample Delivery Group			40134302001
	Sample Date			6/23/2016
	Groundwater Criteria			
	NR140 Enforcement Standard (ES)[1]	NR140 Preventative Action Limit (PAL)[1]	USEPA Maximum Contaminant Level (MCL)[2]	
TOTAL METALS (ug/L)				
Arsenic	10	1	10	4.5
Barium	2,000	400	2,000	977
Cadmium	5	0.5	5	0.95 J
Chromium	100	10	100	45.9
Lead	15	1.5	--	97.2
Mercury	2	0.2	2	1
Selenium	50	10	50	0.66 J
Silver	50	10	--	0.85
POLYCHLORINATED BIPHENYLS (ug/L)				
PCB-1016 (Aroclor 1016)	--	--	--	0.25U
PCB-1221 (Aroclor 1221)	--	--	--	0.25U
PCB-1232 (Aroclor 1232)	--	--	--	0.25U
PCB-1242 (Aroclor 1242)	--	--	--	0.25U
PCB-1248 (Aroclor 1248)	--	--	--	0.25U
PCB-1254 (Aroclor 1254)	--	--	--	0.25U
PCB-1260 (Aroclor 1260)	--	--	--	0.25U
PCB, Total	0.03	0.003	0.5	0.25U
VOLATILE ORGANIC COMPOUNDS (µg/L)				
1,1,1,2-Tetrachloroethane	70	7	--	0.18U
1,1,1-Trichloroethane	200	40	200	0.50U
1,1,2,2-Tetrachloroethane	0.2	0.02	--	0.25U
1,1,2-Trichloroethane	5	0.5	5	0.20U
1,1-Dichloroethane	850	85	--	0.24U
1,1-Dichloroethene	7	0.7	7	0.41U
1,1-Dichloropropene	--	--	--	0.44U
1,2,3-Trichlorobenzene	--	--	--	2.1U
1,2,3-Trichloropropane	60	12	--	0.50U
1,2,4-Trichlorobenzene	70	14	70	2.2U
1,2,4-Trimethylbenzene	480	96	--	0.50U
1,2-Dibromo-3-chloropropane	0.2	0.02	0.2	2.2U
1,2-Dibromoethane (EDB)	0.05	0.005	--	0.18U
1,2-Dichlorobenzene	600	60	600	0.50U
1,2-Dichloroethane	5	0.5	5	0.17U
1,2-Dichloropropane	5	0.5	5	0.23U
1,3,5-Trimethylbenzene	480	96	--	0.50U
1,3-Dichlorobenzene	600	120	--	0.50U
1,3-Dichloropropane	--	--	--	0.50U
1,4-Dichlorobenzene	75	15	75	0.50U
2,2-Dichloropropane	--	--	--	0.48U
2-Chlorotoluene	--	--	--	0.50U
4-Chlorotoluene	--	--	--	0.21U
Benzene	5	0.5	5	0.50U
Bromobenzene	--	--	--	0.23U
Bromochloromethane	--	--	--	0.34U
Bromodichloromethane	0.6	0.06	--	0.50U
Bromoform	4.4	0.44	--	0.50U
Bromomethane	10	1	--	2.4U
Carbon tetrachloride	5	0.5	5	0.50U
Chlorobenzene	--	--	100	0.50U
Chloroethane	400	80	--	0.37U
Chloroform	6	0.6	--	2.5U
Chloromethane	30	3	--	0.50U
cis-1,2-Dichloroethene	70	7	70	0.26U
cis-1,3-Dichloropropene	0.4	0.04	--	0.50U
Dibromochloromethane	60	6	--	0.50U
Dibromomethane	--	--	--	0.43U
Dichlorodifluoromethane	1,000	200	--	0.22U
Diisopropyl ether	--	--	--	0.50U
Ethylbenzene	700	140	700	0.50U
Hexachloro-1,3-butadiene	--	--	--	2.1U
Isopropylbenzene (Cumene)	--	--	--	0.14U
m&p-Xylene	2,000	400	10,000	1.0U
Methylene Chloride	5	0.5	--	0.23U

Table D-2
Groundwater IDW Analytical Results
Supplemental Site Investigation Report
Ashview Terrace Apartments Site
Ashwaubenon, WI

PARAMETER	Well Identification			Groundwater IDW
	Sample Number			TW16-IDW
	Sample Delivery Group			40134302001
	Sample Date			6/23/2016
	Groundwater Criteria			
	NR140 Enforcement Standard (ES)[1]	NR140 Preventative Action Limit (PAL)[1]	USEPA Maximum Contaminant Level (MCL)[2]	
Methyl-tert-butyl ether	60	12	--	0.17U
Naphthalene	100	10	--	2.5U
n-Butylbenzene	--	--	--	0.50U
n-Propylbenzene	--	--	--	0.50U
o-Xylene	2,000	400	10,000	0.50U
p-Isopropyltoluene	--	--	--	0.50U
sec-Butylbenzene	--	--	--	2.2U
Styrene	100	10	100	0.50U
tert-Butylbenzene	--	--	--	0.18U
Tetrachloroethene	5	0.5	5	0.50U
Toluene	800	160	1,000	0.50U
trans-1,2-Dichloroethene	100	20	100	0.26U
trans-1,3-Dichloropropene	0.4	0.04	--	0.23U
Trichloroethene	5	0.5	5	0.33U
Trichlorofluoromethane	--	--	--	0.18U
Vinyl chloride	0.2	0.02	2	0.18U
POLYCYCLIC AROMATIC HYDROCARBONS (ug/L)				
1-Methylnaphthalene	--	--	--	0.0056U
2-Methylnaphthalene	--	--	--	0.0046U
Acenaphthene	--	--	--	0.021 J
Acenaphthylene	--	--	--	0.0047U
Anthracene	3,000	600	--	0.030 J
Benzo(a)anthracene	--	--	--	0.073
Benzo(a)pyrene	0.2	0.02	0.2	0.087
Benzo(b)fluoranthene	0.2	0.02	--	0.11
Benzo(g,h,i)perylene	--	--	--	0.066
Benzo(k)fluoranthene	--	--	--	0.073
Chrysene	0.2	0.02	--	0.14
Dibenz(a,h)anthracene	--	--	--	0.0095U
Fluoranthene	400	80	--	0.26
Fluorene	400	80	--	0.021 J
Indeno(1,2,3-cd)pyrene	--	--	--	0.053 J
Naphthalene	100	10	--	0.030 J
Phenanthrene	--	--	--	0.19
Pyrene	250	50	--	0.26
Total PAHs	--	--	--	1.4
WET CHEMISTRY				
pH	--	--	--	7.8
Flashpoint	--	--	--	>210

Notes:
ug/L = micrograms per liter
J = Estimated concentration
U = Parameter not detected above
Regulatory Criteria
-- = Criteria not established
Cells are highlighted based upon the highest regulatory criteria the analyte detection exceeds per the following colors;
= Parameter detected above NR140 Enforcement Standard[1]
= Parameter detected above NR140 Preventative Action Limit[1]
= Parameter detected above USEPA Maximum Contaminant Level[2]

[1]Wisconsin Administrative Code Chapter NR 140 - Groundwater Quality, Section 140.10 [accessed 09/26/2017] http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140/II/10
[2]USEPA Table of Regulated Drinking Water Contaminants (accessed 09/26/2017) https://www.epa.gov/ground-water-and-drinking-water/table-regulated-drinking-water-contaminants