Submittted by: AECOM
200 Indiana Avenue
Stevens Point, WI 54481
T 715.341.8110
F 715.341.7390
AECOM Project No. 60558672

WIS 67 (Baumann Street to Triple S Road)

Village of Campbellsport
Fond du Lac County, Wisconsin

Phase 2.5 Environmental Sampling Investigations

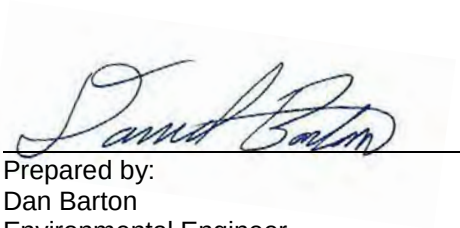
WisDOT Project ID No. 4090-06-00



Phase 2.5 Environmental Sampling Investigations

WIS 67 – Baumann Street to Triple S Road
Village of Campbellsport, Fond Du Lac County, Wisconsin

WisDOT Project No. 4090-06-00



June 19, 2018
Date

Prepared by:
Dan Barton
Environmental Engineer
daniel.barton@aecom.com



June 19, 2018
Date

Reviewed by:
Kyle Wagoner, P.G., CHMM
Project Manager
kyle.wagoner@aecom.com

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Acronyms and Abbreviations

bgs	Below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
CTH	County Highway
D-C	Direct contact
DATCP	Wisconsin Department of Agriculture, Trade, and Consumer Protection
DRO	Diesel range organics
EPA	U.S. Environmental Protection Agency
ES	Enforcement standards
GPR	Ground Penetrating Radar
GPS	Global Positioning System
GRO	Gasoline range organics
IDW	Investigation Derived Wastes
i.u.	Instrument units
LUST	Leaking underground storage tank
NR 720	Wisconsin Administrative Code, Chapter NR 720
Pace	Pace Analytical Services, Inc.
PAL	Preventive action limits
PCB	Polychlorinated biphenyl
Phase 1	Phase 1 Hazardous Materials Assessment
Phase 2.5	Phase 2.5 Environmental Sampling Investigation
PID	Photoionization detector
PVOC	Petroleum Volatile Organic Compound
RCL	NR 720 Residual Contaminant Level
ROW	Right of way
STH	State Highway
USH	U.S. Highway
UST	Underground storage tank
VES	Veolia Environmental Services
VOC	Volatile organic compounds
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources
WIS	Wisconsin State Highway
WisDOT	Wisconsin Department of Transportation

1.0 Executive Summary

This report summarizes results of Phase 2.5 Environmental Sampling Investigations (Phase 2.5) performed within planned project limits at eight sites on Wisconsin State Highway (WIS) 67 between Baumann Street and Triple S Road in the Village of Campbellsport, Fond du Lac County, Wisconsin. Various sites along this corridor are registered with the Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) as previously having underground storage tanks (USTs), some of which are listed as closed/removed. The types of petroleum products contained in these tanks were leaded and unleaded gasoline. Additionally, one site along this corridor is a closed leaking underground storage tank (LUST) site (Bureau for Remediation and Redevelopment Tracking System (BRRTS) No. 03-20-096827). The purpose of the Phase 2.5 was to investigate for the presence and extent of petroleum hydrocarbon contamination within the planned construction limits along WIS 67.

At AECOM's request, Dan Reid of the Wisconsin Department of Transportation's (WisDOT's) Geotechnical Engineering Unit in Madison performed Ground Penetrating Radar (GPR) surveys at four sites to search for historical USTs under the WIS 67 right of way (ROW).

On February 27 and 28, 2018; and March 1, 2018, 20 direct push soil borings (B14-1 through B26-2) were advanced within the existing WIS 67 ROW at eight different sites between Baumann Street and Triple S Road. The borings were advanced to variable maximum depths depending on potential construction excavation depths. Up to two soil samples were collected from each boring for lead (soil only), petroleum volatile organic compounds (PVOCs) or volatile organic compounds (VOCs) analysis. Additionally, water samples were collected from two sites and laboratory analyzed for PVOCs and naphthalene.

Field and analytical data obtained from the Phase 2.5 and GPR surveys indicated the following:

- GPR surveys performed at Sites 20, 21, 25, and 26 did not find potential evidence of historical USTs beneath WIS 67 ROW.

- Soil types were predominantly silty clay/clayey silt with interbedded sand layers in a few places; soil was often very dense at depth causing sampler refusal at depths much less than 20 feet below ground service (bgs) at various locations.

- Shallow bedrock (i.e., limestone/dolomite) was encountered at two sites on the east end of the project (i.e., bedrock at approximately10 feet and 12 feet bgs at Site 25 and at approximately 2.5 feet and 3.5 feet bgs at Site 26).

- Temporary wells were set overnight in many soil borings where groundwater was encountered. Stabilized water levels were measured at 18.5 feet bgs at Site 14 and 12.15 feet bgs at Site 20. All other sites lacked any appreciable groundwater or were dry to terminal depths of borings.

- Pace Analytical Services, Inc., (Pace) reported petroleum contamination above NR 720 Residual Contaminant Levels(RCLs)-gw (soil-to-gw pathway) in soil samples collected at Site 14 (Campbellsport Mobil Mart/BP: B14-2, 9 feet to 10 feet), Site 16 (Campbellsport News: B16-1, 16 feet to 17 feet), and Site 20 (WIS 67 ROW: B20-3, 19 feet to 20 feet).

- Pace reported lead (total) above NR 720 RCL-gw in soil samples collected at Site 14 (Campbellsport Mobil Mart/BP: B14-1, 1 foot to 2 feet; B14-4, 3 feet to 4 feet) and Site 19 (Ben Franklin/Former True Value Hardware: B19-1, 8 feet to 9 feet).

- Benzene slightly exceeded the NR 140 Preventive Action Limits (PALs), but was below the Enforcement Standards (ES), in the groundwater sample collected at Site 14 (Campbellsport Mobil Mart/BP: B14-2).

- Low level PVOCs and naphthalene were detected below NR 140 PALs in the groundwater sample collected at Site 20 (WIS 67 ROW: B20-3).

- There were no chlorinated VOCs detected in soil or groundwater samples collected from any of the Phase 2.5 sites investigated.

Based on the Phase 2.5 results, further subsurface investigation is not warranted within the proposed WIS 67 project limits; however, a hazardous materials special provision is warranted for management of petroleum contaminated soil and, possibly, groundwater within proposed construction limits at Site 14 (Campbellsport Mobil Mart/BP) and Site 20 (WIS 67 ROW). Petroleum contaminated soil discovered at Site 16 (Campbellsport News) appears to be located beyond construction limits. Construction excavation dewatering due to groundwater infiltration alone may not be necessary where petroleum contamination was detected, given the predominance of clayey soil throughout the project limits. Groundwater infiltration rates are anticipated to be relatively slow; however, a plan for off-site disposal of petroleum contaminated wastewater during construction will be included in the special provision as a contingency.

2.0 Investigation

2.1 Project Background

WisDOT is developing plans for improvements to WIS 67 from Baumann Street to Triple S Road in the Village of Campbellsport, Fond du Lac County.

Significant project dates include:

PS&E: August 1, 2020
Construction: 2021

The 2.2-mile-long section of the WIS 67 project, located in the Village of Campbellsport, will include reconstructing the existing roadway, terraces, and sidewalk; re-decking the Milwaukee River Bridge; and replacing storm sewer and municipal utilities. Anticipated real estate acquisitions include limited strip taking and vision corners at some intersections. Otherwise, the roadway will not be widened beyond the existing ROW.

Municipal utilities will be upgraded in the Village of Campbellsport during construction, including sanitary sewer and water main. Sanitary sewer excavation depths are estimated to range between 6 and 26 feet bgs, depending on location. Water main and storm sewer excavations are estimated to range between 4 feet and 8 feet bgs.

Mead & Hunt performed a Phase 1 Hazardous Materials Assessment (Phase 1) for the project and documented their findings in a Phase 1 report, dated December 2014. Based on the Phase 1 results, WisDOT requested a Phase 2.5 investigation at eight sites located along the WIS 67 project corridor. See Table 1 for site-specific hazmat concerns and background information.

2.2 Purpose and Scope

The purpose of the Phase 2.5 was to investigate for the presence and/or extent of subsurface contamination within proposed construction limits along WIS 67 at each site of concern.

The Phase 2.5 scope of work included:

- Contacted and coordinated with Dan Reid of WisDOT's Geotechnical Engineering Unit in Madison to request GPR surveys be performed at Sites 20, 21, 25, and 26 to search for historical USTs under the WIS 67 ROW. Provided Mr. Reid with copies of plan and profile sheets, indicating requested GPR survey areas and copies of the 1927 Sanborn Maps taken from the Phase 1 report.
- Advanced 20 direct-push soil borings within the project limits adjacent to the sites to variable maximum depths, depending on potential construction excavation depths.
- Visually classified the soil samples obtained from borings and field screening of samples for volatile organic vapors using a photoionization detector (PID).
- Collected up to two soil samples per boring from the direct contact zone (uppermost 4 feet), highest PID reading, or at the bottom of boring, if PID readings did not detect volatile vapors. Submitted the soil samples (a total of 38 samples) to the laboratory for analysis of PVOCs and naphthalene (Sites 14, 16, 20, and 21) or VOCs (Sites 18, 19, 25, and 24).

- Collected two representative soil samples composited from soil cuttings for waste characterization. Submitted the representative soil samples to the laboratory for Protocol T1 (Sites 14, 16, 20, and 21) or Protocol T2 (Sites 18, 19, 25, and 24) analysis.
- Collected one groundwater sample directly from each soil boring where groundwater was encountered (a total of 2 samples) for laboratory analysis of PVOCs and naphthalene (Sites 14 and 20).
- Borehole closure in accordance with the requirements of Wisconsin Administrative Code (WAC), Chapter NR 141.
- Took photographs of the site and soil boring locations, and measured the locations from site features for use in preparing a site map.
- Investigation derived waste (IDW) (soil cuttings) generated during the Phase 2.5 investigation was containerized and placed in a temporary storage area located on a municipal property in the Village of Campbellsport.
- Submitted a request for IDW pickup and disposal to Veolia Environmental Services (VES).
- Prepared this report, summarizing results of the Phase 2.5 investigations for all eight sites.

2.3 Site Information

Locations of the eight sites covered by the Phase 2.5 investigation are shown on Figure 1. See Table 1 for site-specific background information.

2.4 Description of Field Investigation

On February 27 and 28, 2018; and March 1, 2018, 20 direct push soil borings (B14-1 through B20-2) were advanced within the existing WIS 67 ROW between Baumann Street and Triple S Road. Soil boring depths were set based on anticipated excavated depths at each site of concern during construction. The borings were advanced using a track-mounted hydraulic direct-push drilling rig operated by GESTRA Engineering, Inc, of Milwaukee, Wisconsin. Locations of the Phase 2.5 borings are shown in Figure 2. Photographs of each site are presented in Appendix A. Bentley gINT® boring logs (Wisconsin Department of Natural Resources (WDNR) Form 4400-122) are provided in Appendix B.

Soil samples were collected continuously from the direct-push sampler and field screened using a PID. The PID is capable of detecting and measuring relative concentrations of volatile organic vapors in the soil gas. PID readings were recorded on the soil boring logs. Soil gas monitoring procedures are described in Appendix C.

Except at Site No. 26, two soil samples were collected from each boring for laboratory analysis by Pace. Refusal due to the presence of shallow bedrock occurred at depths of 2.5 feet and 3.5 feet bgs in the two borings advanced Site No. 26, resulting in limited soil recovery for one laboratory sample analysis per boring. Soil sampling procedures are discussed in Appendix D.

One groundwater sample was collected from each soil probe boring where groundwater was encountered for laboratory analysis, which occurred only on Sites No. 14 and 20. Groundwater sampling procedures are discussed in Appendix D.

After sampling, the borings were abandoned with bentonite in general accordance with the requirements of WAC Chapter NR 141. Abandonment forms (WDNR Form 3300-005) are presented in Appendix E.

Soil cuttings generated during borehole advancement were containerized in 5-gallon plastic buckets with lids, identified with an appropriate WisDOT label, and temporarily stored at the Village of Campbellsport Municipal Garage, located at 164 New Cassel Street. A non-hazardous IDW pickup request was emailed

to VES with supporting documentation on April 2, 2018. Waste disposal request documentation is presented in Appendix F.

2.5 Subsurface Conditions

Subsurface soil encountered generally included dense clay and silty clay with some gravel and cobbles to the borings termination depths. Shallow bedrock was encountered at borings B26-1 and B26-2 at depths of 2.5 feet and 3.5 feet, respectively. Ground surfaces at the boring locations generally consisted of concrete pavement, asphalt, or grass.

PID results indicated the presence of volatile organic vapors at concentrations of 972 and 810 instrument units (i.u.) in borings B16-1 and B20-3, respectively. PID readings for all other soil borings were less than 5 i.u., which appeared to represent background conditions.

Based on United States Geological Survey geological mapping, it appears that native material along the WIS 67 project limits is Theresa and Fox silt loam, underlain by dolomite bedrock.

Groundwater was encountered in volumes sufficient to collect samples only in borings B14-2 and B20-3 at depths of approximately 18.5 feet and 12.15 feet bgs, respectively, in temporary well screens installed during borehole advancement. Water levels were measured after allowing them to stabilize overnight. All other soil borings and temporary wells did not produce groundwater.

Regional groundwater flow direction in the project area is generally expected to be to the east in the direction of the Milwaukee River. Local groundwater flow is generally to the southeast or east based on site location and previous LUST site investigation results from the Campbellsport area. The regional topography of the project area varied from relatively flat to slightly sloped.

2.6 Ground Penetrating Radar Surveys

Dan Reid of WisDOT's Geotechnical Engineering Unit reported to AECOM vial email on May 25, 2018, that GPR surveys at Sites 20, 21, 25, and 26 found subsurface anomalies beneath the WIS 67 pavement that were attributed to underground utilities. No potential evidence of historical USTs was detected at the four sites. AECOM will forward Mr. Reid's technical memorandum of GPR results to WisDOT upon receipt. Copies of plan and profile sheets showing the requested GPR survey areas are provided in Appendix G.

2.7 Analytical Parameters and Results

Analytical parameters were selected in general accordance with WisDOT and WDNR guidance for investigations based on past land use. Soil and groundwater samples submitted to Pace were analyzed for VOCs and lead (soil) at sites 18, 19, 25, and 24, and PVOCs, plus naphthalene and lead (soil) at Sites 14, 16, 20, and 21. Analytical results for soil samples were compared against the WAC Chapter NR 720 non-industrial direct contact and groundwater pathway RCLs, updated December 2017. Analytical results for groundwater samples were compared against the WAC Chapter NR 40 ES and PALs, updated February 2017. Standard analytical procedures are discussed in Appendix H. Pace laboratory reports and sample chain of custody forms are included in Appendix I. Analytical results for soil and groundwater are summarized in Tables 2 and 3, respectively.

AECOM collected two representative soil samples composited from soil cuttings generated during borehole advancement for the purpose of waste characterization. The representative soil samples were submitted to Pace for Protocol T1 analysis (free liquids, flash point, lead (total), benzene (total), diesel range organics (DRO) and gasoline range organics (GRO)) for Sites 14, 16, 20, and 21; and Protocol T2 analysis (free liquids, flashpoint, DRO, GRO, VOCs, reactive cyanide, reactive sulfide, polychlorinated

biphenyls (PCBs), cadmium, and lead) for Sites 18, 19, 25, and 26. Pace laboratory reports for the waste characterizations are included in Appendix I.

2.7.1 Site 14 (Campbellsport Mobil Mart/BP)

2.7.1.1 Soil

Naphthalene was reported by the laboratory above the NR 720 RCL-gw in Boring B14-2 at 9 feet to 10 feet. 1,2,4- and 1,3,5-trimethylbenzene were also detected, but below NR 720 RCLs.

Lead was reported above the NR 720 RCL-gw in boring B14-1 at 1-2', and boring B14-4 at 3 feet to 4 feet. Borings B14-2 and B14-3 had lead at apparent background levels.

No PVOCs or naphthalene were detected in Borings B14-1, B14-3, and B14-4.

2.7.1.2 Groundwater

Benzene was reported above the NR 140 PAL, but below the ES, in the water sample drawn from the temporary well placed in Boring B14-2. Low-level ethylbenzene and toluene were detected below their respective NR 140 PALs.

2.7.2 Site 16 (Campbellsport News)

2.7.2.1 Soil

Various PVOCs and naphthalene were reported above the NR 720 RCL-gw in Boring B16-1 at 16 feet to 17 feet. No PVOCs or naphthalene were detected by the laboratory in Boring B16-2.

Lead was reported below the NR 720 RCL-gw in Borings B16-1 and B16-2.

At WisDOT's request, AECOM prepared and submitted a non-emergency Notification for Hazardous Substance Discharge (WDNR Form 4400-225) with supporting documentation to the WDNR via email for Site 16 on April 6, 2018. A search of the online BRRTS database on June 8, 2018, did not identify a listing for the site. Copies of the release notification form, supporting documents, and recent email communications between AECOM and WDNR are provided in Appendix J.

2.7.3 Site 18 (Used Car Dealer/Donald Driver)

2.7.3.1 Soil

No VOCs were detected by the laboratory in Borings B18-1 and B18-2.

Lead was detected below the NR 720 RCL-gw in Borings B18-1 and B18-2.

2.7.4 Site 19 (Ben Franklin/Former True Value Hardware)

2.7.4.1 Soil

No VOCs were detected by the laboratory in Borings B19-1 and B19-2.

Lead was detected above the NR 720 RCL-gw in Boring B19-1 at 8 feet to 9 feet, but below the non-industrial D-C RCL. Lead was detected below the NR 720 RCL-gw in Boring B19-2.

2.7.5 Site 20 (WIS 67 Right-of-Way next to 139 and 146 East Main Street)

2.7.5.1 Soil

1,2,4- and 1,3,5-trimethlybenzene were detected above the NR 720 RCL-gw in Boring B20-3 at 19 feet to 20 feet. Various other PVOCs and naphthalene were detected below the NR 720 RCL-gw in Boring B20-3 at 19 feet to 20 feet. PVOCs and naphthalene were not detected by the laboratory in Borings B20-1, B20-2, and B20-4.

Lead was detected below the NR 720 RCL-gw in Borings B20-1, B20-2, B20-3, and B20-4.

2.7.5.2 Groundwater

Low level PVOCs and naphthalene were detected below NR 140 PALs in the water sample taken from the temporary well placed in Boring B20-3.

At WisDOT's request, AECOM prepared and submitted a non-emergency Notification for Hazardous Substance Discharge (WDNR Form 4400-225) with supporting documentation to the WDNR via email for Site 20 on March 30, 2018. Subsequently, the WDNR issued a No Action Required decision for the site on May 8, 2018. Copies of the release notification form, supporting documents, and the BRRTS database listing are provided in Appendix J.

2.7.6 Site 21 (Apartment Building at 149 E. Main Street)

2.7.6.1 Soil

No PVOCs or naphthalene were detected by the laboratory in Borings B21-1 and B21-2.

Lead was detected below the NR 720 RCL-gw in Borings B21-1 and B21-2.

2.7.7 Site 25 (B's, Bells & Bootcamps)

2.7.7.1 Soil

No VOCs were detected by the laboratory in Borings B25-1 and B25-2.

Lead was detected below the NR 720 RCL-gw in Borings B25-1 and B25-2.

2.7.8 Site 26 (GTE North/Verizon North, Inc.)

2.7.8.1 Soil

No VOCs were detected by the laboratory in Borings B26-1 and B26-2.

Lead was detected below the NR 720 RCL-gw in Borings B26-1 and B26-2.

2.7.3 Waste Characterizations

2.7.3.1 Protocol T1 Waste Characterization (Sites 14, 16, 20, and 21)

Lead was reported at a concentration of 16.3 mg/kg in the representative soil sample collected for waste characterization, which is below the NR 720 RCL-gw of 27 mg/kg and the non-industrial direct contact (D-C) RCL of 400 mg/kg. DRO was reported at a concentration of 34.3 mg/kg; however, there is currently no NR 720 RCL established for DRO.

2.7.3.2 Protocol T2 Waste Characterization (Sites 18, 19, 25, and 26)

Lead was reported at a concentration of 23.5 mg/kg in the representative soil sample collected for waste characterization, which is below the NR 720 RCL-gw of 27 mg/kg and the non-industrial D-C RCL of 400 mg/kg. DRO was reported at a concentration of 29.4 mg/kg; however, there is currently no NR 720 RCL established for DRO. Cadmium was reported at a concentration of 0.16J mg/kg, which is below the NR 720 RCL-gw of 0.752 mg/kg and the non-industrial D-C RCL of 71.1 mg/kg.

2.8 Conclusions and Recommendation

Field and analytical data obtained from the Phase 2.5 and GPR surveys indicated the following:

- GPR surveys performed at Sites 20, 21, 25, and 26 did not find potential evidence of historical USTs beneath WIS 67 ROW.
- Soil types were predominantly silty clay/clayey silt with interbedded sand layers in a few places; soil was often very dense at depth causing sampler refusal at depths much less than 20 feet bgs at various locations.
- Shallow bedrock (i.e., limestone/dolomite) was encountered at two sites on the east end of the project (i.e., bedrock at approximately10 feet and 12 feet bgs at Site 25, and at approximately 2.5 feet and 3.5 feet bgs at Site 26).
- Temporary wells were set overnight in many soil borings where groundwater was encountered. Stabilized water levels were measured at 18.5 feet bgs at Site 14 and 12.15 feet bgs at Site 20. All other sites lacked any appreciable groundwater or were dry to terminal depths of borings.
- Pace reported petroleum contamination above NR 720 RCL-gw in soil samples collected at Site 14 (Campbellsport Mobil Mart/BP: B14-2, 9 feet to 10 feet), Site 16 (Campbellsport News: B16-1, 16 feet to 17 feet), and Site 20 (WIS 67 ROW: B20-3, 19 feet to 20 feet).
- Pace reported lead (total) above NR 720 RCL-gw in soil samples collected at Site 14 (Campbellsport Mobil Mart/BP: B14-1, 1 foot to 2 feet; B14-4, 3 feet to 4 feet) and Site 19 (Ben Franklin/Former True Value Hardware: B19-1, 8 feet to 9 feet).
- Benzene slightly exceeded the NR 140 PAL, but was below the ES, in the groundwater sample collected at Site 14 (Campbellsport Mobil Mart/BP: B14-2).
- Low-level PVOCs and naphthalene were detected below NR 140 PALs in the groundwater sample collected at Site 20 (WIS 67 ROW: B20-3).
- There were no chlorinated VOCs detected in soil or groundwater samples collected from any of the Phase 2.5 sites investigated.

Based on the Phase 2.5 results, further subsurface investigation is not warranted within the proposed WIS 67 project limits; however, a hazardous materials special provision is warranted for management of petroleum contaminated soil and, possibly, groundwater within proposed construction limits at Site 14 (Campbellsport Mobil Mart/BP) and Site 20 (WIS 67 ROW). Petroleum contaminated soil discovered at Site 16 (Campbellsport News) appears to be located beyond construction limits. Construction excavation dewatering due to groundwater infiltration alone may not be necessary where petroleum contamination was detected, given the predominance of clayey soil throughout the project limits. Groundwater infiltration rates are anticipated to be relatively slow; however, a plan for off-site disposal of petroleum contaminated wastewater during construction will be included in the special provision as a contingency.

3.0 Limitations

AECOM's scope of services was limited to performing a Phase 2.5 within the WIS 67 ROW in the Village of Campbellsport, Wisconsin.

AECOM's opinion regarding existing conditions at the site does not constitute a guarantee or warranty as to the potential environmental liability associated with the site. Furthermore, the findings and conclusions given are not scientific certainties, but rather probabilities based on data obtained or activities performed during this assessment and professional judgment concerning the significance of this data. Information was collected in accordance with generally accepted professional standards and practices, accepted in good faith, and are assumed to be factual and accurate.

AECOM is not able to determine whether the site or adjoining land areas contain hazardous waste, oil, or other latent conditions beyond those detected or observed by AECOM at the time the investigation was conducted. The possibility exists for contaminants to migrate through the surface water, air, or groundwater. Detailed analysis and discussion of the environmental risk associated with contaminant transport in these media was beyond the scope of this assessment.

The findings, conclusions, and opinions contained in this report are intended for exclusive use by WisDOT and are applicable only to this Phase 2.5. AECOM has no obligations to other persons or organizations that may use or rely upon this information.

4.0 References

Mead and Hunt, Phase 1 Hazardous Materials Assessment Report, WIS 67, Baumann St. to Triple S Rd., Village of Campbellsport, Fond du Lac County, Wisconsin, December, 2014.

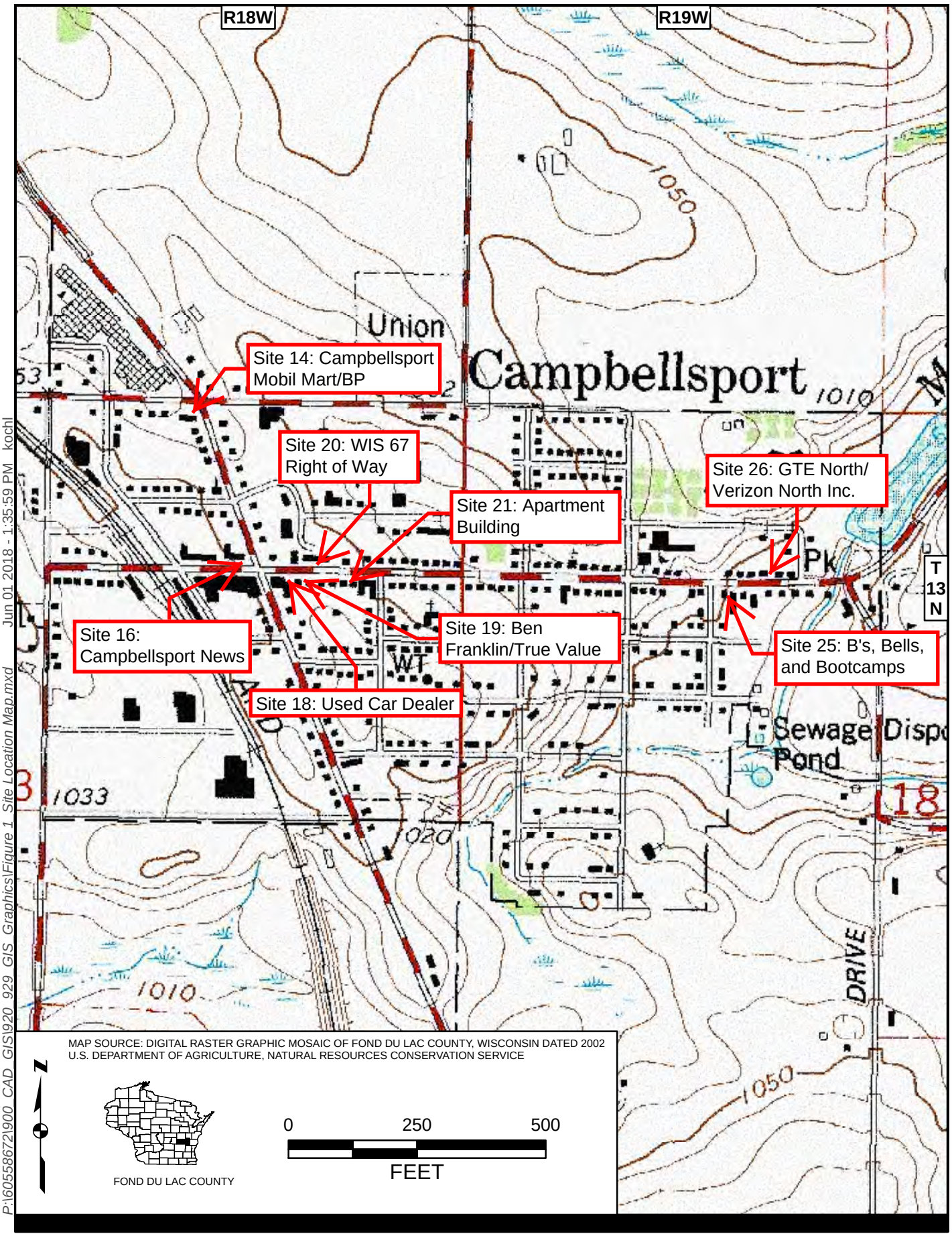
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S.M. Hindall and E.L. Skinner, Water Resources of Wisconsin – Lake Michigan Basin Hydrologic Investigations, Atlas HA-432, 1973.

Wisconsin Administrative Code, Chapter NR 140, Groundwater Quality, Register, February 2017, No. 715

Wisconsin Department of Natural Resources Remediation and Redevelopment Program, RCL spreadsheet, Updated December 2017.

Figures

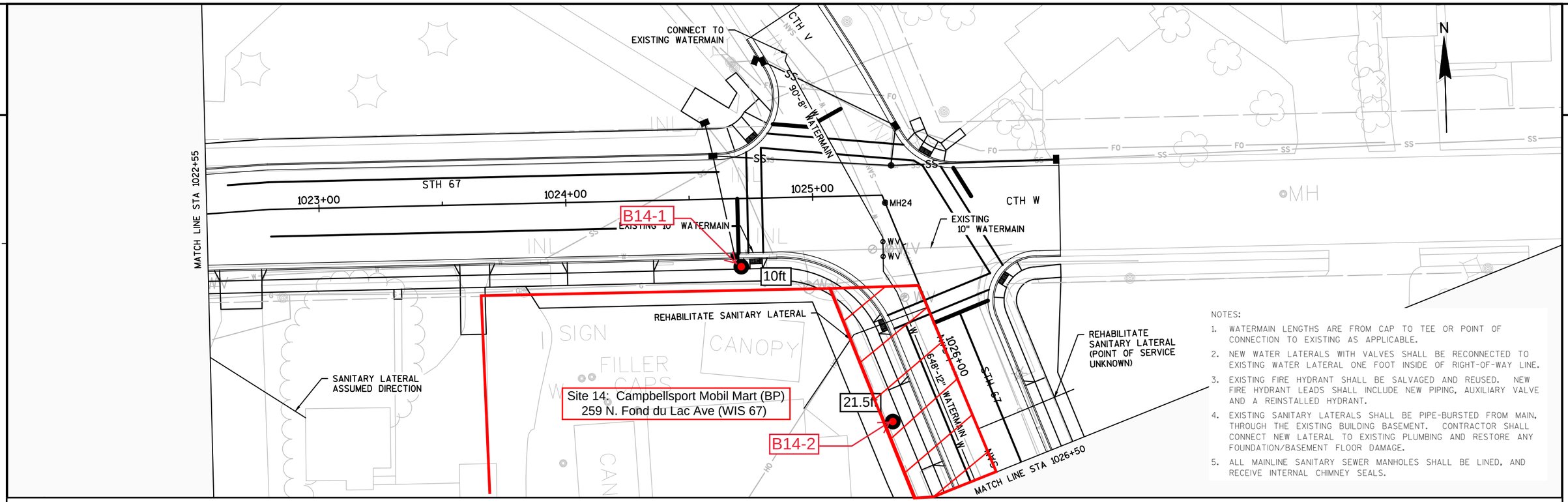


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SITE LOCATION MAP
FOND DU LAC COUNTY
AECOM Project No.60558672
WISDOT Project No. 4090-06-00
Date: 2018/06

CAMPBELLSPORT PHASE 2.5
WIS 67
CAMPBELLSPORT, WISCONSIN

AECOM
Figure: 1



NOTES:

1. WATERMAIN LENGTHS ARE FROM CAP TO TEE OR POINT OF CONNECTION TO EXISTING AS APPLICABLE.
2. NEW WATER LATERALS WITH VALVES SHALL BE RECONNECTED TO EXISTING WATER LATERAL ONE FOOT INSIDE OF RIGHT-OF-WAY LINE.
3. EXISTING FIRE HYDRANT SHALL BE SALVAGED AND REUSED. NEW FIRE HYDRANT LEADS SHALL INCLUDE NEW PIPING, AUXILIARY VALVE AND A REINSTALLED HYDRANT.
4. EXISTING SANITARY LATERALS SHALL BE PIPE-BURSTED FROM MAIN, THROUGH THE EXISTING BUILDING BASEMENT. CONTRACTOR SHALL CONNECT NEW LATERAL TO EXISTING PLUMBING AND RESTORE ANY FOUNDATION/BASEMENT FLOOR DAMAGE.
5. ALL MAINLINE SANITARY SEWER MANHOLES SHALL BE LINED, AND RECEIVE INTERNAL CHIMNEY SEALS.

Legend

- Direct Push Boring (February 27, 2018)
- x ft — Depth to bottom of boring
- Petroleum Contaminated Soil and Groundwater Management Area

Phase 2.5 Soil Boring Site Plan
WIS 67 - Campbellsport

AECOM Project No. 60558672
WisDOT ID 4090-06-00

PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	UTILITY PLAN	SHEET E

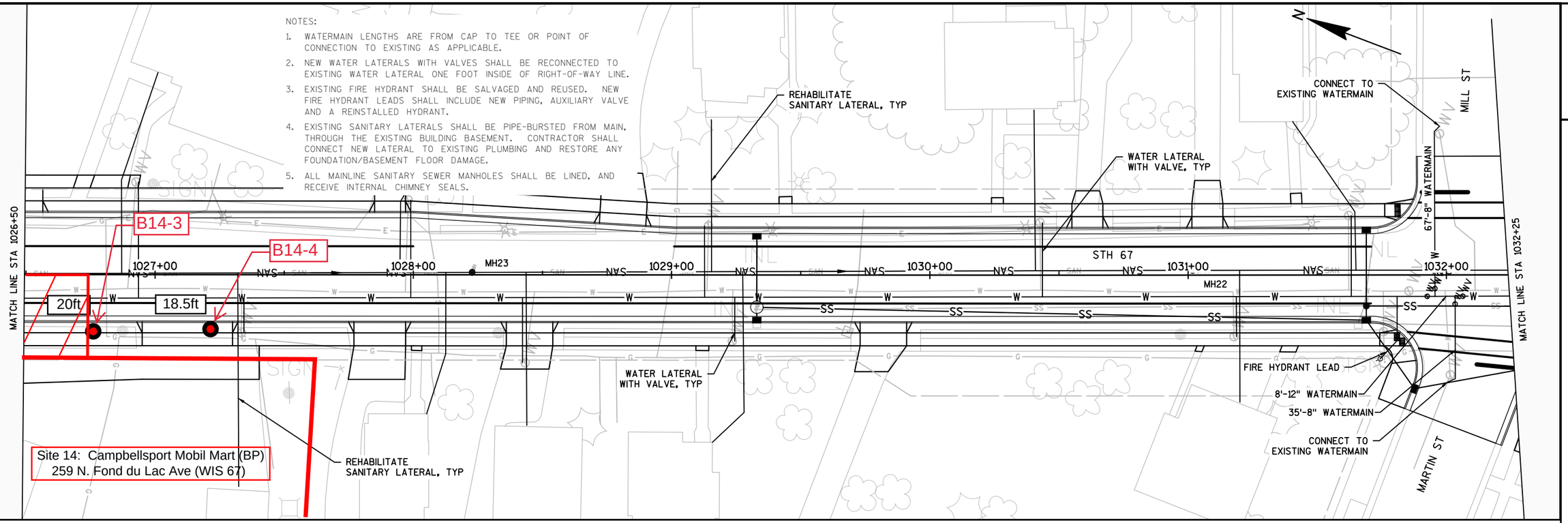
PRE_70

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WISDOT/CADDS SHEET 44

NOTES:

1. WATERMAIN LENGTHS ARE FROM CAP TO TEE OR POINT OF CONNECTION TO EXISTING AS APPLICABLE.
2. NEW WATER LATERALS WITH VALVES SHALL BE RECONNECTED TO EXISTING WATER LATERAL ONE FOOT INSIDE OF RIGHT-OF-WAY LINE.
3. EXISTING FIRE HYDRANT SHALL BE SALVAGED AND REUSED. NEW FIRE HYDRANT LEADS SHALL INCLUDE NEW PIPING, AUXILIARY VALVE AND A REINSTALLED HYDRANT.
4. EXISTING SANITARY LATERALS SHALL BE PIPE-BURSTED FROM MAIN, THROUGH THE EXISTING BUILDING BASEMENT. CONTRACTOR SHALL CONNECT NEW LATERAL TO EXISTING PLUMBING AND RESTORE ANY FOUNDATION/BASEMENT FLOOR DAMAGE.
5. ALL MAINLINE SANITARY SEWER MANHOLES SHALL BE LINED, AND RECEIVE INTERNAL CHIMNEY SEALS.



Legend

- Direct Push Boring (February 27, 2018)
- x ft — Depth to bottom of boring
- Petroleum Contaminated Soil and Groundwater Management Area

Phase 2.5 Soil Boring Site Plan
WIS 67 - Campbellsport

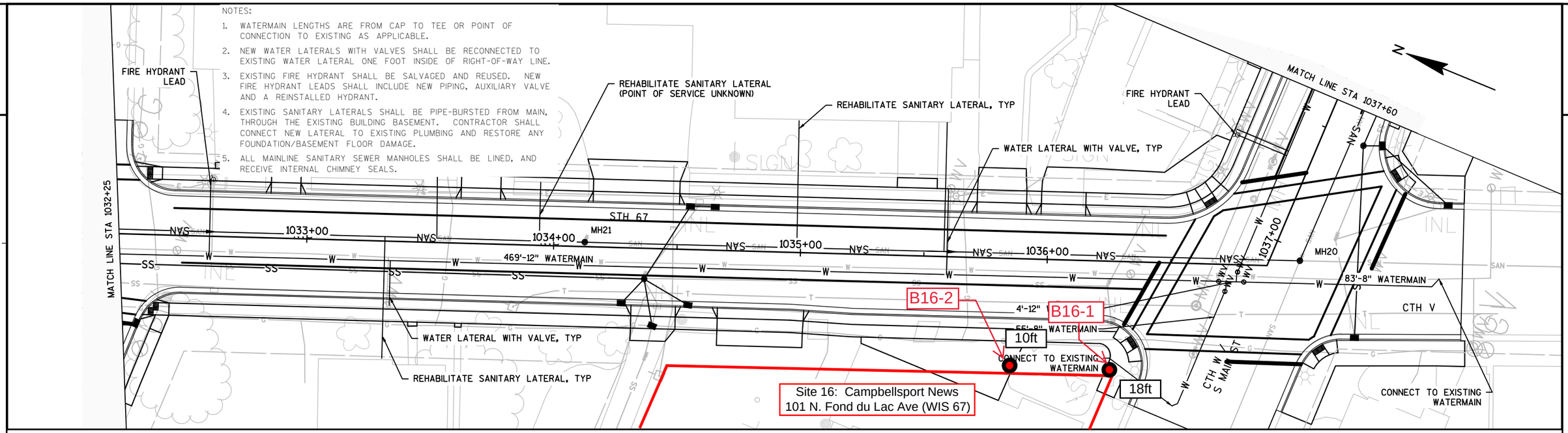
AECOM Project No. 60558672
WisDOT ID 4090-06-00

PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	UTILITY PLAN	SHEET E

PRE_71

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WISDOT/CADDS SHEET 44



Legend

- Direct Push Boring (February 27, 2018)
- x ft — Depth to bottom of boring

Phase 2.5 Soil Boring Site Plan
WIS 67 - Campbellsport

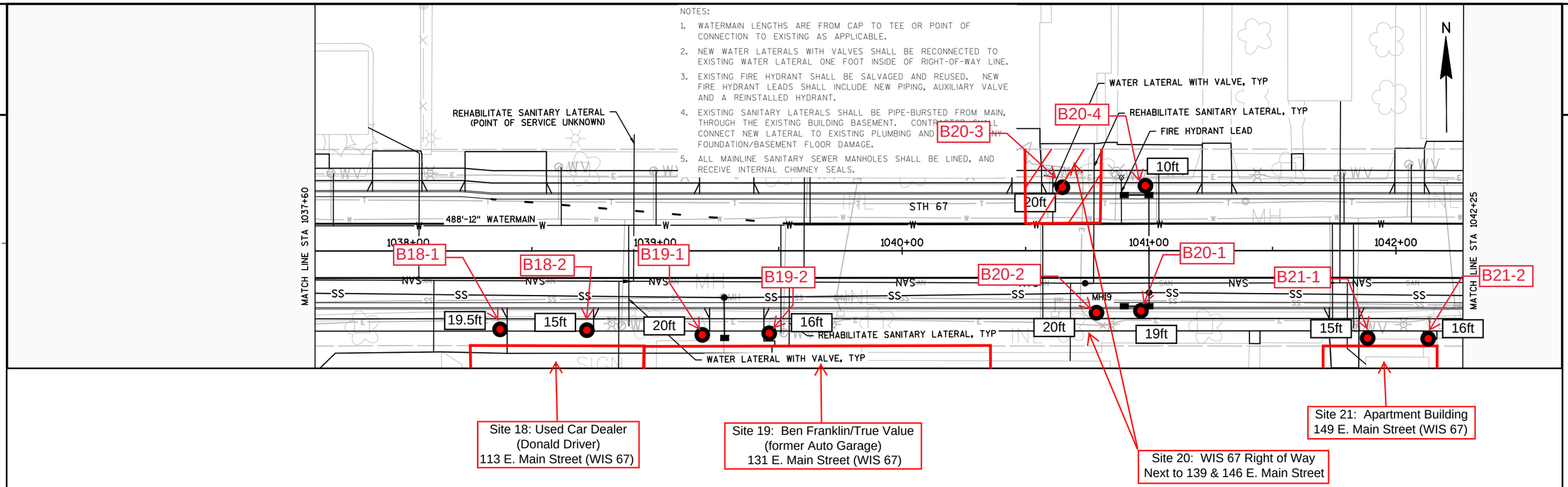
AECOM Project No. 60558672
WisDOT ID 4090-06-00

PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	UTILITY PLAN	SHEET E

PRE_72

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WISDOT/CADDS SHEET 44



Legend

- Direct Push Boring (February 28, March 01, 2018)
- x ft — Depth to bottom of boring
- Petroleum Contaminated Soil and Groundwater Management Area

Phase 2.5 Soil Boring Site Plan
WIS 67 - Campbellsport

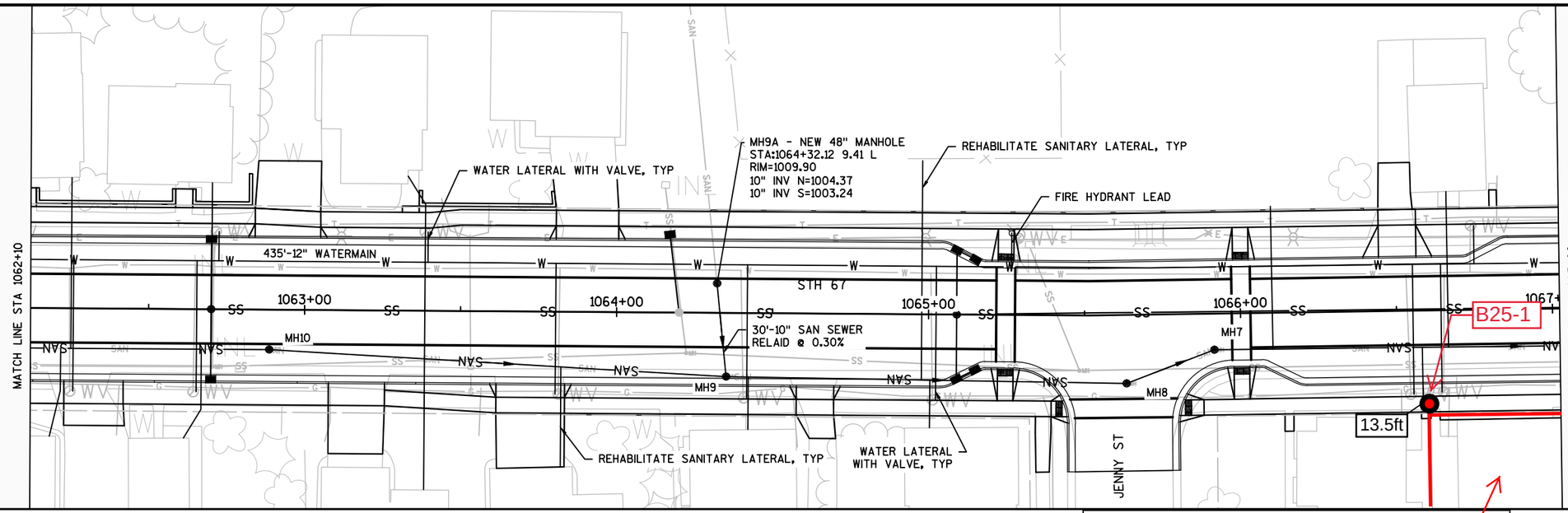
AECOM Project No. 60558672
WisDOT ID 4090-06-00

PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	UTILITY PLAN	SHEET	E

PRE_73

FILE NAME : X:\3230500\113975.02\TECH\CADD\40900600\SHEETSPLAN\023001_UP.DWG PLOT DATE : 1/31/2017 2:17 PM PLOT BY : DAVID YAHNKE PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 44



Legend

- Direct Push Boring (March 01, 2018)
- x ft — Depth to bottom of boring

NOTES:

1. WATERMAIN LENGTHS ARE FROM CAP TO TEE OR POINT OF CONNECTION TO EXISTING AS APPLICABLE.
2. NEW WATER LATERALS WITH VALVES SHALL BE RECONNECTED TO EXISTING WATER [illegible] AY LINE.
3. EXISTING FIRE H[illegible] NEW FIRE HYDRANT [illegible] Y VALVE AND A REINSTALLED HYDRANT.
4. EXISTING SANITARY LATERALS SHALL BE PIPE-BURSTED FROM MAIN, THROUGH THE EXISTING BUILDING BASEMENT. CONTRACTOR SHALL CONNECT NEW LATERAL TO EXISTING PLUMBING AND RESTORE ANY FOUNDATION/BASEMENT FLOOR DAMAGE.
5. ALL MAINLINE SANITARY SEWER MANHOLES SHALL BE LINED, AND RECEIVE INTERNAL CHIMNEY SEALS.

Site 25: B's, Bells, and Bootcamps
511 E. Main Street (WIS 67)

Phase 2.5 Soil Boring Site Plan
WIS 67 - Campbellsport

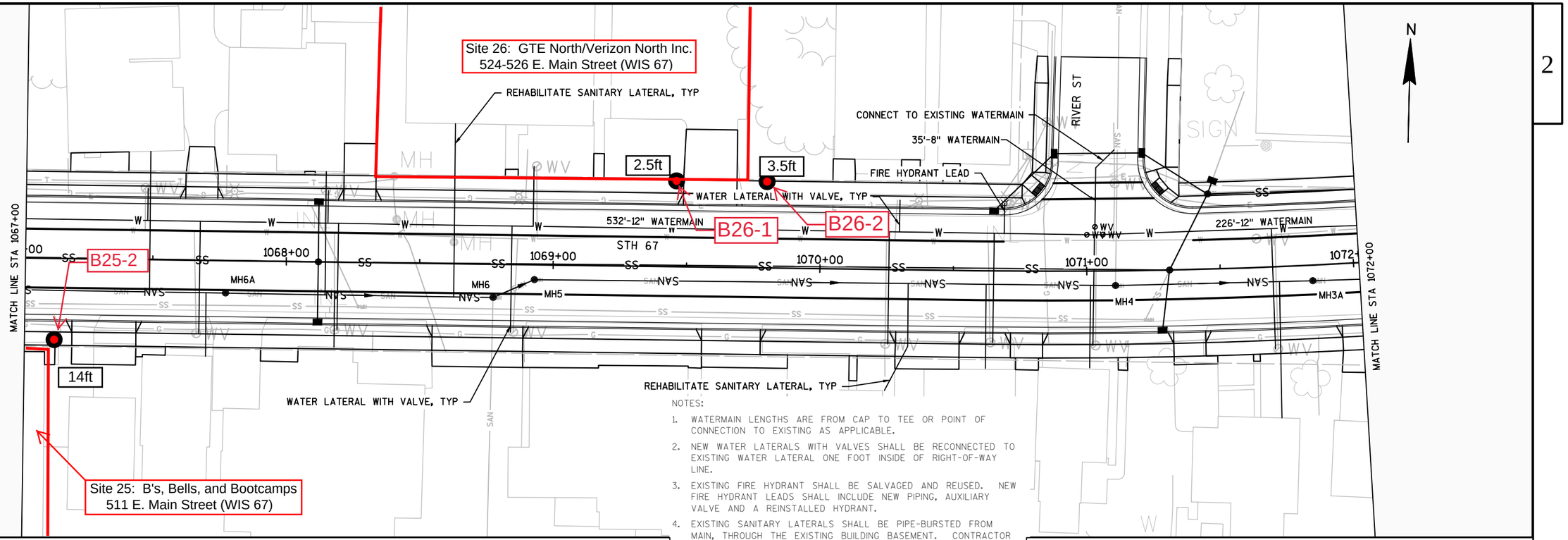
AECOM Project No. 60558672
WisDOT ID 4090-06-00

PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	UTILITY PLAN	SHEET E

PRE_78

FILE NAME : X:\3230500\113975.02\TECH\CADD\40900600\SHEETSPLAN\023001_UP.DWG PLOT DATE : 1/31/2017 2:18 PM PLOT BY : DAVID YAHNKE PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 44



NOTES:

1. WATERMAIN LENGTHS ARE FROM CAP TO TEE OR POINT OF CONNECTION TO EXISTING AS APPLICABLE.
2. NEW WATER LATERALS WITH VALVES SHALL BE RECONNECTED TO EXISTING WATER LATERAL ONE FOOT INSIDE OF RIGHT-OF-WAY LINE.
3. EXISTING FIRE HYDRANT SHALL BE SALVAGED AND REUSED. NEW FIRE HYDRANT LEADS SHALL INCLUDE NEW PIPING, AUXILIARY VALVE AND A REINSTALLED HYDRANT.
4. EXISTING SANITARY LATERALS SHALL BE PIPE-BURSTED FROM MAIN, THROUGH THE EXISTING BUILDING BASEMENT. CONTRACTOR SHALL CONNECT NEW LATERAL TO EXISTING PLUMBING AND RESTORE ANY FOUNDATION/BASEMENT FLOOR DAMAGE.
5. ALL MAINLINE SANITARY SEWER MANHOLES SHALL BE LINED, AND RECEIVE INTERNAL CHIMNEY SEALS.
6. EXISTING UTILITIES SHOWN EAST OF THE MILWAUKEE RIVER ARE SHOWN BASED ON AVAILABLE RECORD DRAWINGS, NOT BASED ON FIELD SURVEY.

Legend

- Direct Push Boring (March 01, 2018)
- x ft — Depth to bottom of boring

Phase 2.5 Soil Boring Site Plan
WIS 67 - Campbellsport

AECOM Project No. 60558672
WisDOT ID 4090-06-00

PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	UTILITY PLAN	SHEET E

PRE_79

FILE NAME : X:\3230500\113975.02\TECH\CADD\40900600\SHEETSPLAN\023001_UP.DWG PLOT DATE : 1/31/2017 2:18 PM PLOT BY : DAVID YAHNKE PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 44

Tables

Table 1 – Site Background Information
Phase 2.5 Environmental Sampling Investigation
WIS 67 – Bauman Street to Triple S Road
Village of Campbellsport, Fond du Lac County
WisDOT Project ID No. 4090-06-00

Site Name, Address, Station, and Location	GPS and WTM Coordinates	Hazmat Concerns	Construction Excavation Depths (approximate)
Campbellsport Mobil Mart (BP) **(Site No. 14)** 259 N. Fond du Lac Ave (WIS 67) Campbellsport, Fond du Lac County, WI 53010 Stations 1024+00 to 1027+50 Northeast 1/4 of the Northwest 1/4, Section 13, Township 13 North, Range 18 East (see Figure 1)	GPS Coordinates: Latitude 43.60082 Longitude - 88.28680 WTM Coordinates: X 658,272 Y 348,964	BRRTS No. 03-20-096827. Operating gas station and commercial use; LUST case closed in 2007; residual soil and groundwater contamination under WIS 67 ROW	4 - 8 ft. (storm sewer) 8 ft. (water main) 20+ ft. (san sewer)
Campbellsport News **(Site No. 16)** 101 N. Fond du Lac Ave (WIS 67) Campbellsport, Fond du Lac County, WI 53010 Stations 1035+00 to 1037+00 Northeast 1/4 of the Northwest 1/4, Section 13, Township 13 North, Range 18 East (see Figure 1)	GPS Coordinates: Latitude 43.59829 Longitude - 88.28546 WTM Coordinates: X 658,386 Y 348,685	Former gas station; no previous site investigations	4 - 8 ft. (storm sewer) 8 ft. (water main) 20+ ft. (san sewer)
Used Car Dealer (Donald Driver) **(Site No. 18)** 113 E. Main Street (WIS 67) Campbellsport, Fond du Lac County, WI 53010 Stations 1038+00 to 1039+00 Northwest 1/4 of the Northwest 1/4, Section 13, Township 13 North, Range 18 East (see Figure 1)	GPS Coordinates: Latitude 43.59803 Longitude - 88.28452 WTM Coordinates: X 658,463 Y 348,657	Automotive sales and service garage; former USTs (leaded & unleaded gas) removed 1989	4 - 8 ft. (storm sewer) 8 ft. (water main) 20+ ft. (san sewer)

Site Name, Address, Station, and Location	GPS and WTM Coordinates	Hazmat Concerns	Construction Excavation Depths (approximate)
Ben Franklin (Former True Value Hardware) (Site No. 19) 131 E. Main Street (WIS 67) Campbellsport, Fond du Lac County, WI 53010 Stations 1039+00 to 1041+00 Northwest 1/4 of the Northwest 1/4, Section 13, Township 13 North, Range 18 East (see Figure 1)	GPS Coordinates: Latitude 43.59804 Longitude - 88.28391 WTM Coordinates: X 658,512 Y 348,657	Former automotive service garage with two gas USTs beyond WIS 67 ROW (ref. 1927 Sanborn map); no record of USTs removed; no previous site investigations	4 - 8 ft. (storm sewer) 8 ft. (water main) 20+ ft. (san sewer)
WIS 67 Right-of-Way (Site No. 20) Next to 139 & 146 E. Main Street Campbellsport, Fond du Lac County, WI 53010 Station 140+00 to 141+00 Northwest 1/4 of the Northwest 1/4, Section 13, Township 13 North, Range 18 East (see Figure 1)	GPS Coordinates: Latitude 43.59814 Longitude - 88.28364 WTM Coordinates: X 658,534 Y 348,670	Three historic gas USTs under ROW (ref. 1927 Sanborn map); no record of USTs removed; no previous site investigations	4 - 8 ft. (storm sewer) 8 ft. (water main) 20+ ft. (san sewer)
Apartment Building (Site No. 21) 149 E. Main Street (WIS 67) Campbellsport, Fond du Lac County, WI 53010 Station 1042+00 Northwest 1/4 of the Northwest 1/4, Section 13, Township 13 North, Range 18 East (see Figure 1)	GPS Coordinates: Latitude 46.01109 Longitude - 91.48247 WTM Coordinates: X 658,566 Y 348,659	Two historic gas USTs under ROW (ref. 1927 Sanborn map); no record of USTs removed; no previous site investigations	4 - 8 ft. (storm sewer) 8 ft. (water main) 20+ ft. (san sewer)

Site Name, Address, Station, and Location	GPS and WTM Coordinates	Hazmat Concerns	Construction Excavation Depths (approximate)
B's, Bells & Bootcamps (Site No. 25) 511 E. Main Street (WIS 67) Campbellsport, Fond du Lac County, WI 53010 Station 167+00 Northwest 1/4 of the Northeast1/4, Section 18, Township 13 North, Range 19 East (see Figure 1)	GPS Coordinates: Latitude 43.59798 Longitude -88.27407 WTM Coordinates: X 659,306 Y 348,669	Former automotive service garage; historic gas UST under roadway (ref. 1927 Sanborn map); no previous site investigations	4 - 8 ft. (storm sewer) 8 ft. (water main) 20+ ft. (san sewer)
GTE North/Verizon North Inc. (Site No. 26) 524-526 E. Main Street (WIS 67) Campbellsport, Fond du Lac County, WI 53010 Station 169+00 Northwest 1/4 of the Northeast 1/4, Section 18, Township 13 North, Range 19 East (see Figure 1)	GPS Coordinates: Latitude 43.59816 Longitude -88.27307 WTM Coordinates: X 659,387 Y 348,691	Former ASTs and USTs (removed); former automotive repair shop; historic UST under roadway (ref. 1927 Sanborn map); no previous site investigations	4 - 8 ft. (storm sewer) 8 ft. (water main) 20+ ft. (san sewer)

Table 2-14.1

Phase 2.5 Soil Sample Analytical Results

Campbellsport BP (Site No. 14)
259 N. Fond du Lac Avenue (WIS 67)
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B14-1**	**B14-1**	**B14-2**	**B14-2**	**B14-3**	**B14-3**	**B14-4**	**B14-4**
			Sample Depth (feet):	**1-2'**	**9-10'**	**3-4'**	**9-10'**	**2-3'**	**19-20'**	**3-4'**	**15-16'**
			PID Readings (i.u.):	**2.1**	**2.1**	**2.2**	**4.8**	**2.6**	**2.2**	**2.4**	**2.3**
			Sample Date:	**2/27/2018**	**2/27/2018**	**2/27/2018**	**2/27/2018**	**2/27/2018**	**2/27/2018**	**2/27/2018**	**2/27/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**							
	Non-Industrial	**Industrial**									
PVOCs + Naph by WI MOD GRO (ug/kg)											
Benzene	1,600	7,070	5.1	<25	<25	<25	<62.5	<25	<25	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	<25	<25	<62.5	<25	<25	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25	<25	<62.5	<25	<25	<25	<25
Naphthalene	5,520	24,100	658.2	<25	<25	<25	**2,070**	<25	<25	<25	<25
Toluene	818,000	818,000	1,107.2	<25	<25	<25	<62.5	<25	<25	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	<25	<25	445	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25	<25	209	<25	<25	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	<50	<50	<125	<50	<50	<50	<50
o-Xylene	434,000	434,000		<25	<25	<25	<62.5	<25	<25	<25	<25
Metals by EPA Method 6010 (mg/kg)											
Lead (total)	400	800	27.0	**36**	-	-	3.1	1.6	-	**31.8**	-

Notes:

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
i.u. = instrument units
Bold result indicates NR 720 RCL exceedance (any)

Table 2-14.2

Phase 2.5 Groundwater Sample Analytical Results

Campbellsport BP (Site No. 14)
259 N. Fond du Lac Ave.
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

		Soil Boring ID:	**B14-2**
		Depth to Water (ft.):	**18.5'**
		Sample Date:	**2/27/2018**
Analyte	**NR 140 Standards**		**Results**
	ES	**PAL**	
PVOCs + Naph by WI MOD GRO (ug/L)			
Benzene	5	0.50	**0.87J**
Ethylbenzene	700	140	0.76J
Methyl-tert-butyl ether	60	12	<0.48
Naphthalene	100	10	<0.42
Toluene	800	160	0.83J
1,2,4-Trimethylbenzene	480 (combined)	96 (combined)	<0.42
1,3,5-Trimethylbenzene			<0.42
m&p-Xylene	2,000 (combined)	400 (combined)	<0.80
o-Xylene			<0.45

Notes:

Water quality standards taken from Chapter NR 140, Wis Admin. Code, February 2017.
ES: Enforcement Standard.
PAL: Preventative Action Limit.
Bold data indicates one or more WI regulatory standards exceeded.
J = Estimated concentration at or above the LOD and below the LOQ.
ug/L = micrograms per liter.

Table 2-16.1

Phase 2.5 Soil Sample Analytical Results

Campbellsport News (Site No. 16)
101 N. Fond du Lac Avenue (WIS 67)
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B16-1**	**B16-1**	**B16-2**	**B16-2**
			Sample Depth (feet):	**1-2'**	**16-17'**	**2-3'**	**9-10'**
			PID Readings (i.u.):	**2.1**	**972**	**1.6**	**1.7**
			Sample Date:	**2/27/2018**	**2/27/2018**	**2/27/2018**	**2/27/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**			
	Non-Industrial	**Industrial**					
PVOCs + Naph by WI MOD GRO (ug/kg)							
Benzene	1,600	7,070	5.1	<25	<100	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	**3,360**	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<100	<25	<25
Naphthalene	5,520	24,100	658.2	<25	**4,030**	<25	<25
Toluene	818,000	818,000	1,107.2	<25	<100	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	**20,300**	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	**7,010**	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	**16,100**	<50	<50
o-Xylene	434,000	434,000		<25	**2,910**	<25	<25
Metals by EPA Method 6010 (mg/kg)							
Lead (total)	400	800	27.0	-	5.3	16	-

Notes:

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated

Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.

ug/kg = micrograms per kilogram

mg/kg - milligrams per kilogram

i.u. = instrument units

Bold result indicates NR 720 RCL exceedance (any).

Table 2-18.1

Phase 2.5 Soil Sample Analytical Results

Used Car Dealer (Site No. 18)
113 E. Main Street (WIS 67)
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B18-1**	**B18-1**	**B18-2**	**B18-2**
			Sample Depth (feet):	**2-3'**	**18-19'**	**3-4'**	**14-15'**
			PID Readings (i.u.):	**1.0**	**1.2**	**0.9**	**1.0**
			Sample Date:	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**			
	Non-Industrial	**Industrial**					
VOCs by EPA Method 8260 (µg/kg)							
Benzene	1,600	7,070	5.1	<25	<25	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	<25	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25	<25	<25
Naphthalene	5,520	24,100	658.2	<40	<40	<40	<40
Toluene	818,000	818,000	1,107.2	<25	<25	<25	<25
Tetrachloroethene	33,000	145,000	4.5	<25	<25	<25	<25
Trichloroethene	1,300	8,410	3.6	<25	<25	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	<50	<50	<50
o-Xylene	434,000	434,000		<25	<25	<25	<25
Metals by EPA Method 6010 (mg/kg)							
Lead (total)	400	800	27.0	9	-	14.7	-

Notes:

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated
Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
ug/kg = micrograms per kilogram
mg/kg - milligrams per kilogram
i.u. = instrument units

Table 2-19.1

Phase 2.5 Soil Sample Analytical Results

Ben Franklin (Site No. 19)
131 E. Main Street (WIS 67)
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B19-1**	**B19-1**	**B19-2**	**B19-2**
			Sample Depth (feet):	**2-3'**	**8-9'**	**1-2'**	**14-15'**
			PID Readings (i.u.):	**1.2**	**2.5**	**1.7**	**1.7**
			Sample Date:	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**			
	Non-Industrial	**Industrial**					
VOCs by EPA Method 8260 (µg/kg)							
Benzene	1,600	7,070	5.1	<25	<25	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	<25	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25	<25	<25
Naphthalene	5,520	24,100	658.2	<40	<40	<40	<40
Toluene	818,000	818,000	1,107.2	<25	<25	<25	<25
Tetrachloroethene	33,000	145,000	4.5	<25	<25	<25	<25
Trichloroethene	1,300	8,410	3.6	<25	<25	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	<50	<50	<50
o-Xylene	434,000	434,000		<25	<25	<25	<25
Metals by EPA Method 6010 (mg/kg)							
Lead (total)	400	800	27.0	-	**102**	10.1	-

Notes:

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated

Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.

ug/kg = micrograms per kilogram

mg/kg - milligrams per kilogram

i.u. = instrument units

Bold result indicates NR 720 RCL exceedance (any).

Table 2-20.1

Phase 2.5 Soil Sample Analytical Results

WIS 67 Right of Way (Site No. 20)
Next to 139/146 E. Main St. (WIS 67)
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B20-1**	**B20-1**	**B20-2**	**B20-2**	**B20-3**	**B20-3**	**B20-4**	**B20-4**
			Sample Depth (feet):	**2-3'**	**18-19'**	**3-4'**	**19-20'**	**1-2'**	**19-20'**	**3-4'**	**9-10'**
			PID Readings (i.u):	**1.9**	**2.0**	**1.9**	**2.0**	**2.2**	**810**	**2.0**	**2.0**
			Sample Date:	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**							
	Non-Industrial	**Industrial**									
PVOCs + Naph by WI MOD GRO (ug/kg)											
Benzene	1,600	7,070	5.1	<25	<25	<25	<25	<25	<50	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	<25	<25	<25	<25	930	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25	<25	<25	<25	<50	<25	<25
Naphthalene	5,520	24,100	658.2	<25	<25	<25	<25	<25	258	<25	<25
Toluene	818,000	818,000	1,107.2	<25	<25	<25	<25	<25	102J	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	<25	<25	<25	<25	**266**	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25	<25	<25	<25	**2,120**	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	<50	<50	<50	<50	1,930	<50	<50
o-Xylene	434,000	434,000		<25	<25	<25	<25	<25	<50	<25	<25
Metals by EPA Method 6010 (mg/kg)											
Lead (total)	400	800	27.0	11.6	-	0.95J	-	-	4.2	6.2	-

Notes:

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
ug/kg = micrograms per kilogram
mg/kg - milligrams per kilogram
i.u. = instrument units
J: Estimated concentration at or above the LOD and below the LOQ
Bold result indicates NR 720 RCL exceedances (any).

Table 2-20.2

Phase 2.5 Groundwater Sample Analytical Results

Wis 67 Right of Way (Site No. 20)
Next to 139/146 E. Main St.
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

		Soil Boring ID:	**B20-3**
		Depth to Water (ft.):	**12.15**
		Sample Date:	**3/1/2018**
Analyte	**NR 140 Standards**		**Results**
	ES	**PAL**	
PVOCs + Naph by WI MOD GRO (µg/L)			
Benzene	5	0.50	<0.79
Ethylbenzene	700	140	14.4
Methyl-tert-butyl ether	60	12	<0.97
Naphthalene	100	10	7.1
Toluene	800	160	1.3J
1,2,4-Trimethylbenzene	480 (combined)	96 (combined)	16.5
1,3,5-Trimethylbenzene			32
m&p-Xylene	2,000 (combined)	400 (combined)	26.9
o-Xylene			<0.90

Notes:

All results were below WI regulatory standards.
Water quality standards taken from Chapter NR 140, Wis Admin. Code, February 2017.
ES: Enforcement Standard.
PAL: Preventative Action Limit.
ug/L = micrograms per liter.
J: Estimated concentration at or above the LOD and below the LOQ.

Table 2-21.1

Phase 2.5 Soil Sample Analytical Results

Apartment Building (Site No. 21)
149 E. Main Street (WIS 67)
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

	Soil Boring/Sample ID:			B21-1	B21-1	B21-2	B21-2
	Sample Depth (feet):			3-4'	14-15'	1-2'	15-16'
	PID Readings (i.u.):			1.3	1.3	1.5	1.4
	Sample Date:			3/1/2018	3/1/2018	3/1/2018	3/1/2018
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**			
	Non-Industrial	**Industrial**					
PVOCs + Naph by WI MOD GRO (µg/kg)							
Benzene	1,600	7,070	5.1	<25	<25	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	<25	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25	<25	<25
Naphthalene	5,520	24,100	658.2	<25	<25	<25	<25
Toluene	818,000	818,000	1,107.2	<25	<25	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	<50	<50	<50
o-Xylene	434,000	434,000		<25	<25	<25	<25
Metals by EPA Method 6010 (mg/kg)							
Lead (total)	400	800	27.0	2.2	-	8.9	-

Notes:

All reults were below WI regulatory standards.
Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
ug/kg = micrograms per kilogram
mg/kg - milligrams per kilogram
i.u. = instrument units

Table 2-25.1

Phase 2.5 Soil Sample Analytical Results

B's, Bells Bootcamps (Site No. 25)
511 E. Main Street (WIS 67)
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B25-1**	**B25-1**	**B25-2**	**B25-2**
			Sample Depth (feet):	**1-2'**	**12-13'**	**3-4'**	**13-14'**
			PID Readings (i.u.):	**1.9**	**1.9**	**1.7**	**1.7**
			Sample Date:	**3/1/2018**	**3/1/2018**	**3/1/2018**	**3/1/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**			
	Non-Industrial	**Industrial**					
VOCs by EPA Method 8260 (µg/kg)							
Benzene	1,600	7,070	5.1	<25	<25	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	<25	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25	<25	<25
Naphthalene	5,520	24,100	658.2	<40	<40	<40	<40
Toluene	818,000	818,000	1,107.2	<25	<25	<25	<25
Tetrachloroethene	33,000	145,000	4.5	<25	<25	<25	<25
Trichloroethene	1,300	8,410	3.6	<25	<25	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	<50	<50	<50
o-Xylene	434,000	434,000		<25	<25	<25	<25
Metals by EPA Method 6010 (mg/kg)							
Lead (total)	400	800	27.0	25.4	-	16.3	-

Notes:

All results were below WI regulatory standards.

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.

Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.

ug/kg = micrograms per kilogram

mg/kg - milligrams per kilogram

i.u. = instrument units

Table 2-26.1

Phase 2.5 Soil Sample Analytical Results

GTE/Verizon North, Inc. (Site No. 26)
524/526 E. Main Street (WIS 67)
Village of Campbellsport, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B26-1**	**B26-2**
			Sample Depth (feet):	**1-2'**	**2-3'**
			PID Readings (i.u.):	**1.9**	**1.3**
			Sample Date:	**3/1/2018**	**3/1/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**	
	Non-Industrial	**Industrial**			
VOCs by EPA Method 8260 (µg/kg)					
Benzene	1,600	7,070	5.1	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25
Naphthalene	5,520	24,100	658.2	<40	<40
Toluene	818,000	818,000	1,107.2	<25	<25
Tetrachloroethene	33,000	145,000	4.5	<25	<25
Trichloroethene	1,300	8,410	3.6	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	<50
o-Xylene	434,000	434,000		<25	<25
Metals by EPA Method 6010 (mg/kg)					
Lead (total)	400	800	27.0	20	24

Notes:

All results were below WI regulatory standards.

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.

Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.

ug/kg = micrograms per kilogram

mg/kg - milligrams per kilogram

i.u. = instrument units

Appendices

Appendix A

Photograph Log

AECOM

PHOTOGRAPH LOG

Client Name: Wisconsin Department of Transportation	**Site Location:** WIS 67 - Campbellsport	**Project No.** 60558672

Photo No. 1	**Date:** 2/27/2018

Direction Photo Taken:

Southeast

Description:

Campbellsport Mobil Mart/BP
(Site No. 14)

259 N. Fond du Lac Ave.



Photo No. 2	**Date:** 2/27/2018

Direction Photo Taken:

Northwest

Description:

Campbellsport Mobil Mart/BP
(Site No. 14)

259 N. Fond du Lac Ave.



AECOM

PHOTOGRAPH LOG

Client Name: Wisconsin Department of Transportation	**Site Location:** WIS 67 - Campbellsport	**Project No.** 60558672

Photo No. 3	**Date:** 2/27/2018

Direction Photo Taken:

Southwest

Description:

Campbellsport News (Site No. 16)

101 N. Fond du Lac Ave.



Photo No. 4	**Date:** 2/28/2018

Direction Photo Taken:

Southeast

Description:

Used Car Dealer (Site No. 18)

113 E. Main St.



AECOM

PHOTOGRAPH LOG

Client Name: Wisconsin Department of Transportation	**Site Location:** WIS 67 - Campbellsport	**Project No.** 60558672

Photo No. 5	**Date:** 2/28/2018

Direction Photo Taken:

Southeast

Description:

Ben Franklin/Former True Value Hardware (Site No. 19)

131 E. Main St.



Photo No. 6	**Date:** 2/28/2018

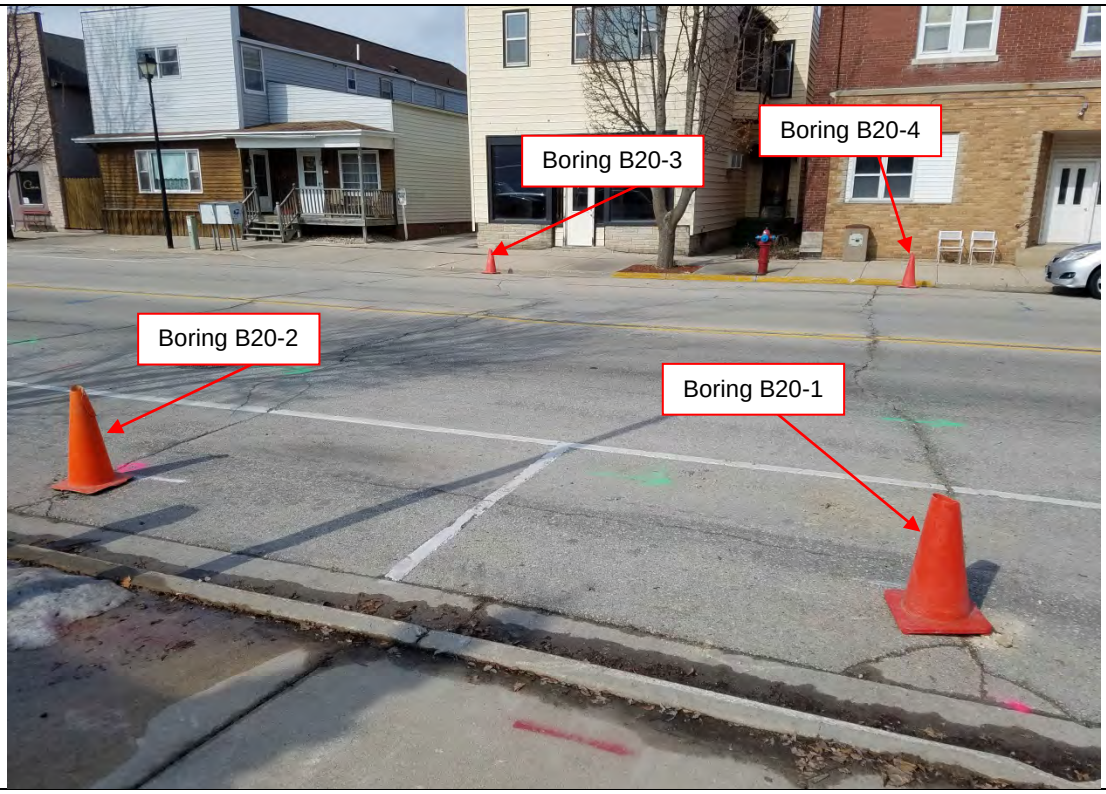
Direction Photo Taken:

Southeast

Description:

WIS 67 Right-of-Way (Site No. 20)

Next to 139 & 146 E. Main St.



AECOM

PHOTOGRAPH LOG

Client Name: Wisconsin Department of Transportation	**Site Location:** WIS 67 - Campbellsport	**Project No.** 60558672

Photo No. 7	**Date:** 3/1/2018

Direction Photo Taken:

Southwest

Description:

Apartment Bldg.
(Site No. 21)

149 E. Main St.



Photo No. 8	**Date:** 3/1/2018

Direction Photo Taken:

Southeast

Description:

B's, Bells & Bootcamps
(Site No. 25)

511 E. Main St.



AECOM

PHOTOGRAPH LOG

Client Name: Wisconsin Department of Transportation	**Site Location:** WIS 67 - Campbellsport	**Project No.** 60558672

Photo No.	**Date:**
9	3/1/2018

Direction Photo Taken:

Northwest

Description:

GTE North/Verizon North Inc.
(Site No. 26)

524-526 E. Main St.



Appendix B

Soil Boring Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Campbellsport Mobil Mart (Site No. 14)		B14-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/27/2018	2/27/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 13, T 13 N,R 18

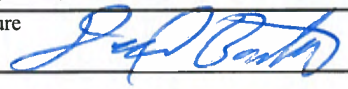
Lat ° ' "
Long ° ' "

Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5	Crushed road surface and large pebbles				2.1						
			3.0	Tan to gray clay with gravel	GC			2.1						
			4.5	Gray medium to fine sand, saturated	SP			2.0						
			6.0	Gray medium to coarse sand with some pebbles, saturated	SW			2.1						
			7.5					2.1						
			9.0											
				End of Boring at 10.0 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Campbellsport Mobil Mart (Site No. 14)		B14-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/27/2018	2/27/2018	Direct Push

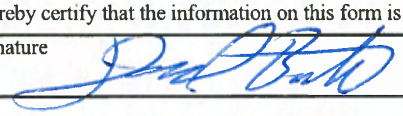
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Asphalt road surface										
			1.5	Tan to light tan clay with some gravel	GC			2.1						
			3.0					2.2						
			4.5											
			6.0	Wet at 5.0 feet Tan to light tan silty clay with some angular gravel	GC			2.0						
			7.5					4.8						
			9.0					2.0						
			10.5	Gray to tan silty clay with angular gravel and cobbles	GC									
			12.0											
			13.5					2.1						
			15.0					2.2						
			16.5											
			18.0											
			19.5											
			21.0											
				End of Boring at 21.5 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Campbellsport Mobil Mart (Site No. 14)		B14-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/27/2018	2/27/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5	Tan fine sand to silt with pebbles	GM			2.1						
			3.0	Wet at 3.0 feet				2.6						
			4.5											
			6.0	Brown to light brown silty clay with trace pebbles, saturated	CL			2.3						
			7.5	Tan clay with angular gravel	GC			2.4						
			9.0					2.2						
			10.5											
			12.0					2.2						
			13.5					2.2						
			15.0	Tan silty clay with some pebbles and gravel Sampler/metal tip stuck in the ground at 15.0 to 20.0 (5 foot rod), could not install well	CL			2.2						
			16.5											
			18.0											
			19.5											
				End of Boring at 20.0 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Campbellsport Mobil Mart (Site No. 14)		B14-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/27/2018	2/27/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Crushed road surface										
			1.5	Medium to coarse sand with angular gravel and pebbles (fill)	Fill			2.1						
			3.0	Brown to dark brown clay with trace gravel	GC			2.4						
			4.5	Tan silty clay with large angular gravel				2.6						
			6.0											
			7.5					1.9						
			9.0					2.3						
			10.5		ML									
			12.0					2.3						
			13.5											
			15.0	Tan to light brown hard clay with some small pebbles and weathered rock				2.2						
			16.5		CL									
			18.0	Refusal at 18.5 feet, weathered bedrock @ ~18.0 feet, hole collapsed, could not install well				2.3						
				End of Boring at 18.5 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Campbellsport News (Site No. 16)		B16-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/27/2018	2/27/2018	Direct Push

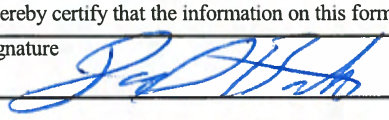
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5	Gray medium to coarse sand	SW			2.1						
			3.0	Light brown fine sand with silt and pebbles	SW			1.8						
			4.5	Brown to dark brown clay with some cobbles	CL			1.8						
			6.0	Gary to light brown silty clay with pebbles and gravel				2.2						
			7.5					2.0						
			9.0		GC			32.0						
			10.5					12.0						
			12.0					972.0						Strong petroleum odor
			13.5	Gray to white fractured stone				850.0						
			15.0	Brown silty clay	OL									
			16.5	Gray hard fractured stone and silt										
			18.0	Well installed, no groundwater present after sitting overnight, refusal at 18.0 feet										
				End of Boring at 18.0 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Campbellsport News (Site No. 16)		B16-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/27/2018	2/27/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5	Crushed concrete										
			3.0	Light brown to brown fine sand with silt	SM			1.8						
			4.5	Light brown to brown clayey silt with trace pebbles and cobbles	ML			1.6						
			6.0					1.7						
			7.5					1.7						
			9.0	End of Boring at 10.0 feet										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Used Car Dealer-Donald Driver (Site No. 18)		B18-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/28/2018	2/28/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Crushed concrete surface										
			1.5	Light brown to brown clay	CL			1.8						
			3.0					1.0						
			4.5											
			6.0	Medium to fine sand with pebbles and angular gravel Saturated at 5.0 feet	GM			1.3						
			7.5	Light brown to brown clayey silt with some angular gravel	ML			1.3						
			9.0					1.6						
			10.5	Tan to light brown clayey silt with some angular gravel and fine sand, wet	ML			1.6						
			12.0											
			13.5					1.4						
			15.0	Brown silty fine sand, wet, saturated	SM			1.2						
			16.5											
			18.0	Brown to tan hard packed clay with fractured rock and weathered stone	CL			1.2						
			19.5	End of Boring at 19.5 feet										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Used Car Dealer-Donald Driver (Site No. 18)		B18-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/28/2018	2/28/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Crushed concrete/pavement, wet										
			1.5	Brown to brown clay with some large angular gravel	GC			1.0						
			3.0					0.9						
			4.5											
			6.0	Brown fine sand and silt with large angular gravel, wet Saturated at 5.0 feet	GM			0.9						
			7.5	Light brown silty clay with pebbles and gravel	OL			1.0						
			9.0					1.0						
			10.5	Brown fine sandy silt and clay, wet	SC			0.9						
			12.0	Fractured rock										
			13.5	Light brown to brown clayey silt with angular pebbles and gravel	GC			1.0						
			15.0	Refusal at 15.0 feet End of Boring at 15.0 feet				1.0						

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Ben Franklin (Site No. 19)		B19-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/28/2018	2/28/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5					1.1						
			3.0					1.2						
			4.5											
			6.0					1.0						
			7.5	Brown to dark brown hard clay with some silt	OL			2.5						
			9.0	Visible staining at 9.0 feet, slight odor				1.6						
			10.5	Light brown to brown clay with some silt and gravel										
			12.0					1.0						
			13.5											
			15.0		OL			1.0						
			16.5											
			18.0					1.8						
			19.5											
				End of Boring at 20.0 feet										

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200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Ben Franklin (Site No. 19)		B19-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/28/2018	2/28/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Crushed concrete										
			1.5	Brown to dark brown silty clay	OL			1.7						
			3.0					1.7						
			4.5	Tan to light brown clay with silt and angular gravel	GC			1.8						
			6.0	Tan to light brown, fine sand and silt with some pebbles				1.7						
			7.5					1.7						
			9.0		GM			1.7						
			10.5					1.7						
			12.0					1.8						
			13.5											
			15.0	End of Boring at 16.0 feet										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WIS 67 Right-of-Way (Site No. 20)		B20-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/28/2018	2/28/2018	Direct Push

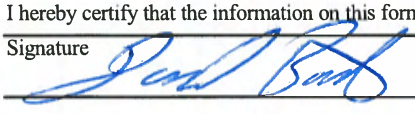
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5	Crushed road surface and asphalt				1.9						
			3.0	Brown to dark brown clay with some silt	CL			1.9						
			4.5											
			6.0	Light brown to tan clayey silt with crushed rocks and angular gravel				2.0						
			7.5					1.9						
			9.0					1.9						
			10.5					2.0						
			12.0		GC									
			13.5					2.0						
			15.0					2.0						
			16.5											
			18.0											
				End of Boring at 19.0 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WIS 67 Right-of-Way (Site No. 20)		B20-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/28/2018	2/28/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 13, T 13 N,R 18

Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5	Brown to dark brown hard clay	OL			1.9						
			3.0					1.9						
			4.5	Tan to brown medium to fine grained sand	SM									
			6.0	Brownish yellow clay with fine sand and angular gravel	GC			2.0						
			7.5	Light brown to tan clay with some silt and gravel				1.8						
			9.0					1.7						
			10.5		ML									
			12.0					2.0						
			13.5					2.1						
			15.0	Brown hard packed clay with gravel and some silt										
			16.5		GC			2.0						
			18.0					2.0						
			19.5											
				End of Boring at 20.0 feet										

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Signature [signature] Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WIS 67 Right-of-Way (Site No. 20)		B20-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/28/2018	2/28/2018	Direct Push

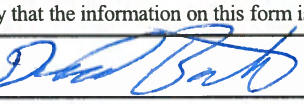
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Crushed road surface										
			1.5	Medium to coarse sand with pebbles and gravel (FILL)	Fill			1.9						
			3.0					2.2						
			4.5	Tan to light brown silty clay with some pebbles				2.2						
			6.0											
			7.5					2.2						
			9.0		OL									
			10.5					2.2						
			12.0											
			13.5											Strong petroleum odor present
			15.0	Grey to dark grey hard clay with some silt and fractured rock				70.0						
			16.5		CL			371.0						
			18.0											
			19.5					810.0						
				End of Boring at 20.0 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WIS 67 Right-of-Way (Site No. 20)		B20-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	2/28/2018	2/28/2018	Direct Push

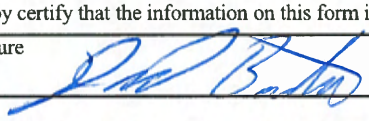
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Crushed road surface										
			1.5	Medium to coarse sand mixed with dark brown clay	SC			2.0						
			3.0					2.0						
			4.5					1.8						
			6.0					1.9						
			7.5					2.0						
			9.0	End of Boring at 10.0 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Apartment Building (Site No. 21)		B21-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	3/1/2018	3/1/2018	Direct Push

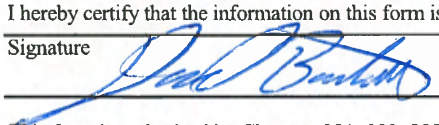
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 13, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Crushed concrete										
			1.5	Crushed rock				1.3						
			3.0	Tan to brown clay with some angular gravel				1.3						
			4.5					1.7						
			6.0		GC									
			7.5					1.3						
			9.0					1.2						
			10.5	Tan to brown hard packed silt with some pebbles and gravel				1.3						
			12.0		GM									
			13.5					1.3						
			15.0	End of Boring at 15.0 feet										

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Signature  Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Apartment Building (Site No. 21)		B21-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	3/1/2018	3/1/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 18, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5	Brown clay with pebbles and some silt	GC			1.5						
			3.0	Brown to dark brown clay with pebbles	GC			1.5						
			4.5	Fractured rock with some coarse sand	SP			1.4						
			6.0	Medium to fine sand with light brown clay	SC			1.4						
			7.5					1.4						
			9.0	Light brown fine sand with silt	SM			1.4						
			10.5					1.4						
			12.0					1.4						
			13.5					1.4						
			15.0	End of Boring at 16.0 feet										

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Signature [signature] Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
B's, Bells & Bootcamps (Site No. 25)		B25-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	3/1/2018	3/1/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 18, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Crushed road surface										
			1.5	Light brown to tan clay with silt and fractured rock	CL			1.9						
			3.0	Brown to dark brown clay with some silt	CL			1.9						
			4.5	Medium to coarse sand with angular gravel and weathered rock	SP			1.9						
			6.0	Tan to light brown clay with silt and coarse sand	CL			1.9						
			7.5					1.9						
			9.0	Light brown to tan fractured and weathered rock				1.8						
			10.5					1.9						
			12.0											
			13.5	End of Boring at 13.5 feet										

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200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
B's, Bells & Bootcamps (Site No. 25)		B25-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	3/1/2018	3/1/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 18, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5	Light brown to brown clay with coarse sand and pebbles	SC			1.7						
			3.0	Dark brown hard clay with some medium to coarse sand	ML			1.7						
			4.5											
			6.0	Broken rock with tan to light brown silty clay				1.8						
			7.5					1.7						
			9.0		GC			1.7						
			10.5					1.7						
			12.0	Light tan fractured and weathered rock	GW									
			13.5					1.7						
				End of Boring at 14.0 feet										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
GTE North/Verizon North, Inc. (Site No. 26)		B26-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	3/1/2018	3/1/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 18, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Organic topsoil	PT									
			1.5	Tan to light brown clay with some silt	OL			1.9						
				Refusal at 2.5 feet				1.9						
				End of Boring at 2.5 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
GTE North/Verizon North, Inc. (Site No. 26)		B26-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Pantil Gestra	3/1/2018	3/1/2018	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 18, T 13 N,R 18
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond Du Lac	20	Campbellsport

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Organic topsoil	PT									
			1.5	Tan to light brown clay with some silt and pebbles	OL			1.3						
			3.0	Refusal at 3.5 feet				1.3						
				End of Boring at 3.5 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm AECOM
200 Indiana Avenue, Stevens Point, Wisconsin 54481 *

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Appendix C

Soil Gas Monitoring

Soil Gas Monitoring

PID Model: Process Analyzers DL-102

Probe: 10.2 eV Lamp

Calibration Gas: 100 parts per million Isobutylene/Air

The PID was calibrated before and after sampling was conducted.

Soil gas readings for specified depth intervals were obtained using the headspace method. Soil samples were placed in plastic Ziploc bags and the air in each bag was allowed to equilibrate with the soil sample for up to 30 minutes. If the outside air temperature was below 70 degrees Fahrenheit, the soil samples were heated. The PID probe was then inserted into the bag headspace and the instrument reading was recorded.

Appendix D

Standard Sampling Procedures

Standard Sampling Procedures

Soil samples were collected continuously from the soil probe using 2-inch diameter samplers with disposable plastic liners. Samples collected for laboratory analysis were removed from the liners and placed directly into laboratory-supplied glass jars using new protective gloves. Protective gloves were disposed after collecting each sample. The liners were replaced between samples. Soil samples were preserved according to WDNR and U.S. Environmental Protection Agency (EPA) protocol.

Groundwater samples were collected from the soil probe borings/temporary monitoring wells using a peristaltic pump and tubing. Samples were placed into laboratory-supplied containers and preserved in accordance with EPA and WDNR protocol. The stainless steel bailer was decontaminated prior to the collection of each sample with and alconox/water mix and distilled water.

Appendix E

Borehole Abandonment Forms

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 #
Fond du lac		

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

¼ ¼	¼	Section	Township	Range
NW	NE	13	13 N	☑ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Boring Complete	

2. Facility / Owner Information

Facility Name:
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): 02/27/18

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.)
10	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5.3

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	Surface	10	1	

6. Comments

Boring B14-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/27/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3029

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ of ¼	¼	Section	Township	Range	
NW	NE	13	13 N	18	☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/27/18

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.)
21.5	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
N/A	18.42

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	Surface	21.5	2	

6. Comments

Boring B14-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/27/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du Lac	_ _ _ _ _ _ _	

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

¼ ¼	¼	Section	Township	Range
NW	NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/27/18

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.)
20	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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	Surface	20	2	

6. Comments

Boring B14-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/27/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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 #
Fond du lac	_ _ _ _ _ _ _	

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 #
NW	NE	13	13 N	☑ E ☐ W	

Well Street Address

Well City, Village or Town: Campbellsport | Well ZIP Code: 53010

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/27/18

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.)
18.5	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	N/A

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

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

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	Surface	18.5	2	

6. Comments

Boring B14-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/27/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3075

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ ¼ NW	¼ NE	Section	Township	Range
or Gov't Lot #		13	13 N	18 ☑ E ☐ W

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010
Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/27/18

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.)
18.5	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	18.5

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

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

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	Surface	18.5	2	

6. Comments

Boring B16-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/27/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3075

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ ¼	¼	Section	Township	Range
NW	NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/27/18

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.)
N/A	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	N/A

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

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

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	Surface	10	1	

6. Comments

Boring B16-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/27/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du lac		

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

¼ of ¼ or Gov't Lot #	¼	Section	Township	Range
NE	NE	13	13 N	18 ☑ E ☐ W

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Boring Complete	

2. Facility / Owner Information

Facility Name

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): 02/28/18

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.)
19.5'	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	19

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	Surface	19	2	

6. Comments

Boring B18-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/28/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ ¼ NE	¼ NE	Section	Township	Range
or Gov't Lot #		13	13 N	☑ E ☐ W

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010
Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/28/18

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.)
15	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

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

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	Surface	15	2	

6. Comments

Boring B18-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/28/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481	[signature]	3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ ¼	¼	Section	Township	Range
NE	NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/28/18

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.)
20	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	N/A

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

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

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	Surface	20	2	

6. Comments

Boring B19-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/28/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481	[signature]	3/2/18

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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ ¼	¼	Section	Township	Range
NE	NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010
Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/28/18

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.)
16	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

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

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	Surface	16	2	

6. Comments

Boring B19-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/28/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _	

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

¼ of ¼	¼	Section	Township	Range
NE	NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010
Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/28/18

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	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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	Surface	19	2	

6. Comments

Boring B20-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/28/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481	[signature]	3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ ¼	¼	Section	Township	Range
NE	NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/28/18

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.)
20	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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	Surface	20	2	

6. Comments

Boring BZ0-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/28/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ of ¼ or Gov't Lot #	¼	Section	Township	Range
¼ NE	¼ NE	13	13 N	18 ☑ E ☐ W

Well Street Address:

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name:

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): 02/28/18

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.)
20	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	1

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

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

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	Surface	20	2	

6. Comments

Boring B20-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/28/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481	[signature]	3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ ¼	¼	Section	Township	Range
NE	NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 02/28/18

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.)
10	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

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

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	Surface	10	1	

6. Comments

B20-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		2/28/18

Street or Route	Telephone Number
200 Indiana Avenue	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481	[signature]	3/2/18

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)

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☐ **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 #
Fond du lac		

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

¼ ¼	¼	Section	Township	Range
NE	NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010
Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Boring Complete	

2. Facility / Owner Information

Facility Name

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): 3/1/18

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.)
15	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

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

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	Surface	15	2	

6. Comments

Boring B21-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		3/1/18

Street or Route	Telephone Number
200 Indiana Ave	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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 #
Fond du Lac	_ _ _ _ _ _ _	

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 #
NE	NE	13	13 N	18 ☑ E ☐ W	

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 3/1/18

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.)
16	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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	Surface	16	2	

6. Comments

Boring BZ1-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		3/1/18

Street or Route	Telephone Number
200 Indiana Ave	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ of ¼ or Gov't Lot #	¼	Section	Township	Range
NE	NE	13	13 N	18 ☑ E ☐ W

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 3/1/18

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.)
13.5	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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	Surface	13.5	1.5	

6. Comments

Boring B25-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		3/1/18

Street or Route	Telephone Number
200 Indiana Ave	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ of ¼	¼	Section	Township	Range
¼ NE	¼ NE	13	13 N	18 ☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 3/1/18

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.)
14	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	14.08

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	Surface	14	1.5	

6. Comments

Boring B25-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		3/1/18

Street or Route	Telephone Number
200 Indiana Ave	(715)-342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du lac	_ _ _ _ _ _ _	

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

¼ ¼	¼	Section	Township	Range	
NE	NE	13	13 N	18	☑ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010
Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 3/1/18

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.)
N/A	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

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

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	Surface	2.5	1	

6. Comments

Boring B26-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		3/1/18

Street or Route	Telephone Number
200 Indiana Ave	(715)-342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

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)

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☐ **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 #
Fond du Lac	_ _ _ _ _ _ _	

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

¼ of ¼ NE	¼ NE	Section	Township	Range
or Gov't Lot #		13	13 N	18 ☑ E ☐ W

Well Street Address

Well City, Village or Town	Well ZIP Code
Campbellsport	53010
Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name

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): 3/1/18

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.)
N/A	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

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

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	Surface	3.5	1	

6. Comments

Boring B26-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AECOM		3/1/18

Street or Route	Telephone Number
200 Indiana Ave	(715) 342-3025

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Stevens Point	WI	54481		3/2/18

DNR Use Only

Date Received	Noted By

Comments

Appendix F

Waste Disposal Request Documentation

From:	Barton, Daniel
To:	"John.mueller@veolia.com"
Cc:	Wagoner, Kyle; "DOT Hazmat Unit e-Mailbox (dothazmatunit@dot.wi.gov)"; "Kathie.VanPrice@dot.wi.gov"
Subject:	Non-Haz pick-up request - WIS 67 Phase 2.5 Fond du Lac County, WI (WisDOT ID 4090-06-00)
Date:	Monday, April 02, 2018 4:16:00 PM
Attachments:	T1 WC.pdf T2 WC.pdf 20180301_134425.jpg 20180301_134447.jpg Bucket location.pdf dt1229 (non-haz June 2016).pdf

---

Hello John,

Please process the attached IDW pickup request and let me know if you need anything else.

Regards,

Dan Barton

Dan Barton, EIT
Environmental Engineer, Environment
D +1-715-342-3025
M +1-248-385-7046
daniel.barton@aecom.com

AECOM
200 Indiana Avenue
Stevens Point, Wisconsin 54481, U.S.A.
T +1-715-341-8110
aecom.com

NON-HAZARDOUS WASTE INVENTORY RECORD

Wisconsin Department of Transportation
DT1229 6/2016 (For use with DT1208)

DTSD Region and Office Northeast - Green Bay		
WisDOT Project ID 4090-06-00	County Fond du Lac	Highway and Termini STH 67
Site Name Campbellsport Phase 2.5 - Various sites (8)		Phase of Investigation 2.5
Consultant Company AECOM		
Consultant Contact Kyle Wagoner		
Contact (Area Code) Telephone Number (715)-342-3038		
Contact Email Address kyle.wagoner@aecom.com		
Consultant ID for this Site 60558672		
Generation Date (m/d/yyyy) 3/1/2018		
Comments, special instructions for pickup or site access 9 plastic five gallon buckets containing soil cuttings and purge water are temporarily stored next to the Campbellsport municipal garage located at 164 New Cassel St, Campbellsport, WI 53010 (see location map and photo). Local contact is Mark Gruber, (#920-533-8321). The cuttings were analyzed for Protocol T1 and T2 parameters (see Pace lab report).		

Waste Description – describe containers of similar size and contents in one row. Insert additional rows as needed.
Number and Label Each Container.

Container ID Number	**Container Size and Type**	**Estimated Volume of Waste**	**Source: Tank, Well, Boring**	**Contents: Soil, Water, Other (Describe)**
Example: 1, 4, 5, 6, 7, 18, 22, 23	Example: 30 gallon metal drum	Example: 8 drums x 30 gal = 240 gallons	Example: monitoring wells # MW3, MW4, and MW7	Example: wash water, alconox
1, 2, 3, 5, 6, 7, 8, 9	5 gallon plastic pail	40 gallons	Soil borings	Soil cuttings
4	5 gallon plastic pail	5 gallons	Soil borings	Purge/wash water

Total Number of Containers to be picked up: 9

Container Location: Attach map or site sketch to Email

Analytical Results: Attach analytical results to Email

Email one copy of this form to each of the following:

- DOT Hazardous Materials Specialist
- Regional Environmental or Hazardous Materials Coordinator
- Hazardous Waste Contractor

Include a copy of this form as the final appendix in the report for this site.






Mill St
Campbellsport
Fire Department
River St
E Main St
67
Tails Saloon
New Cassel St
Columbus Park
Campbellsport
Wastewater Utlty
Columbus
Park
Milwaukee River
New Cassel St
Columbus Parc Ct
Columbus Parc Ct
Location of nine 5-gal buckets containing soil (8) and water (1) from WIS 67 Phase 2.5

Appendix G

Ground Penetrating Radar Survey Areas

From:	Reid, Daniel - DOT
To:	Wagoner, Kyle
Cc:	VanPrice, Kathie - DOT; Schmidt, Eric; TeBeest, Sharlene - DOT; Arndorfer, Robert - DOT
Subject:	RE: Request for GPR Surveys - WIS 67, Village of Campbellsport, Fond du Lac County (WisDOT 4090-06-00)
Date:	Wednesday, December 06, 2017 7:50:29 AM
Attachments:	image001.png

Kyle,
Thanks for sending this information.

As I indicated to you in our phone conversation, I am tentatively planning on conducting the GPR field investigation work during the week of 01/15/2017. Also, as I indicated to you, the biggest issue with obtaining decent GPR profile information during the winter months are road salt brines, so I will be looking to do the field work in dry conditions.

I had a couple of other questions that I forgot to ask you in our phone conversation yesterday:

1) Do you have any soil boring information from this area ? I will look at NRCS mapping for the area but if you have any soil borings at these sites (or nearby) that would be helpful.
2) Can you provide me with CADD files/information on existing utility locations ? This can be very helpful with the GPR data analysis/interpretations.

Thanks again Kyle…….look forward to working with you and AECOM on this.

Dan Reid, PG
Geotechnical Engineering Unit
WI Dept of Transportation
Office: 608-246-7946
Mobile: 608-444-3381
daniel.reid@dot.wi.gov

From: Wagoner, Kyle [mailto:KYLE.WAGONER@aecom.com]
Sent: Tuesday, December 05, 2017 4:54 PM
To: Reid, Daniel - DOT <Daniel.Reid@dot.wi.gov>
Cc: VanPrice, Kathie - DOT <Kathie.VanPrice@dot.wi.gov>; Schmidt, Eric <Eric.Schmidt@aecom.com>

Subject: Request for GPR Surveys - WIS 67, Village of Campbellsport, Fond du Lac County (WisDOT 4090-06-00)

Dan-

Please find the attached plan sheets, Sanborn maps and a current aerial photo showing the locations of **Site Nos. 20, 21, 25 and 26** where GPR surveys for historic USTs are requested. I've cross-hatched the survey areas on P&P sheets taken from the 60% plan set.

Note that street nos. shown on the Sanborn maps don't match current street nos. I've noted current street nos. on the P&P sheets.

I understand from our phone call today that you are available after mid January 2018.

Kathie VanPrice has requested that AECOM provide a preliminary report of Phase 2.5 results by the end of March 2018. We'll include your GPR survey results, if available then.

Don't hesitate to contact me if you have any Q's or need anything else.

Kyle

Kyle Wagoner, P.G., CHMM
Project Manager
Environment
D 715.342.3038
Internal Cisco Extension 2103038
kyle.wagoner@aecom.com

AECOM
200 Indiana Avenue, Stevens Point, WI 54481
T 715.341.8110 F 715.341.7390

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(2)

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
11	1042+12		1051.67
12	1045+26		1042.03

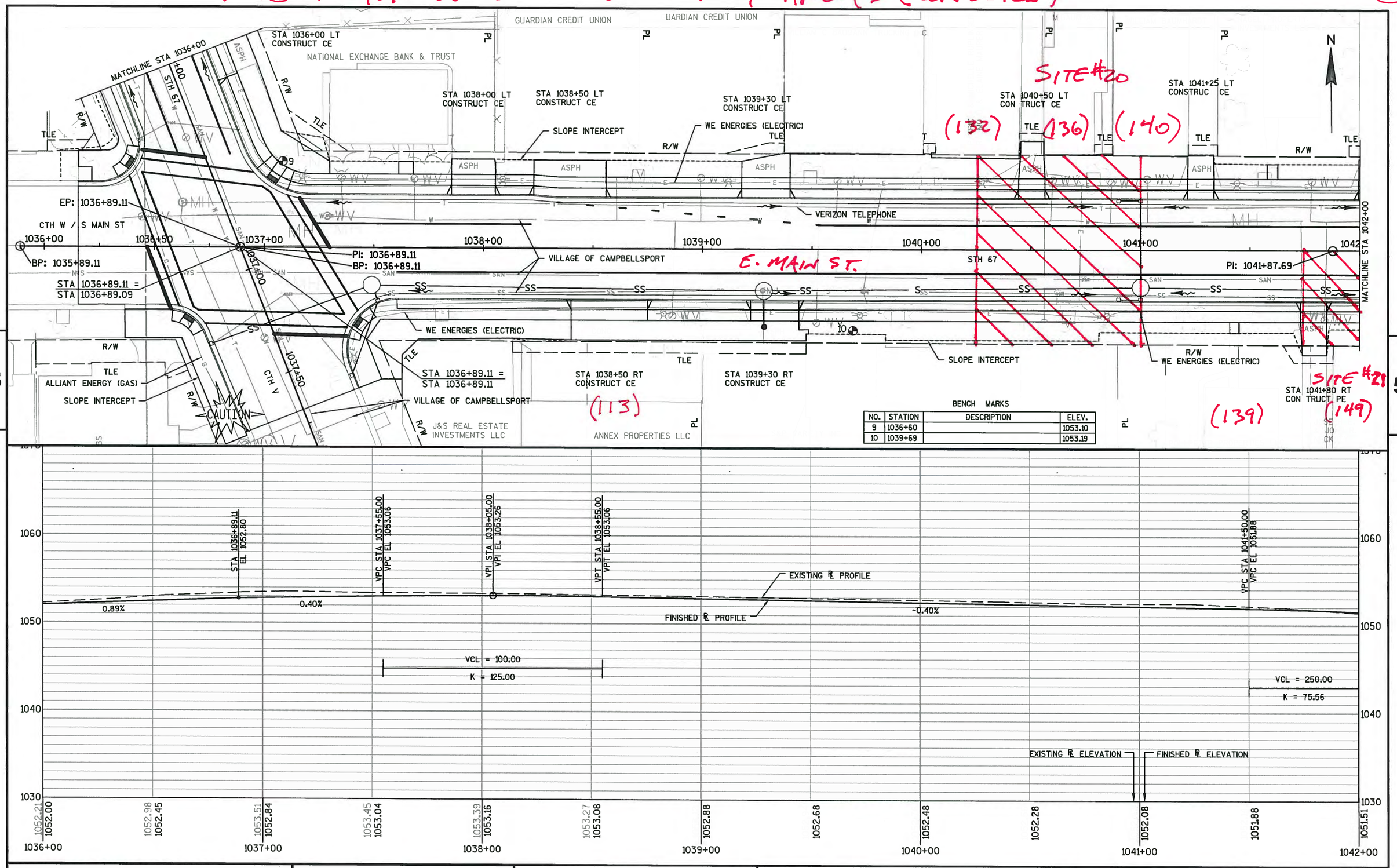
RYAN ZIARKOWSKI (158)
DETTMANN, DENNIS G, SHEILA K
KREBS, HERBERT J, JACQUELINE K
KEITH & PENNY BOETTCHER
NAGEL PROPERTY INVESTMENTS LLC
N
MATCHLINE STA 1042+00
MATCHLINE STA 1048+00
SLOPE INTERCEPT
TLE
R/W
WE ENERGIES (ELECTRIC)
STA 1044+00 LT CONSTRUCT PE
STA 1044+75 LT CONSTRUCT PE
ALLIANT ENERGY (GAS)
STA 1045+50 LT CONSTRUCT PE
STA 1046+00 LT CONSTRUCT PE
STA 1047+00 LT CONSTRUCT PE
STA 1047+65 LT CONSTRUCT PE
VERIZON TELEPHONE
GRAVEL
CONC
ASPH
CAUTION
E. MAIN ST.
STA 1044+63.33 = STA 10+00.00
PI: 1044+15.11
EP: 10+00.00
VILLAGE OF CAMPBELLSPORT
STH 67
SITE #21 (149) (153)
STA 1042+75 RT CONSTRUCT PE
STA 1045+50 RT CONSTRUCT PE
STA 1047+38 RT CONSTRUCT PE
POPLAR ST
JOSEPH E. & JOHN R. NECKUTY
SARA J. YOHO
VIL OF CAMPBELLSPORT
DEAN UELMEN
STONE FAM TRUST
NICHOLAS & JAMIE BRETTINGEN
LISA BUNKELMAN
JEFFERY & PATRICIA PELISCHEK

VPI STA 1042+75.00
VPI EL 1051.38
FINISHED ℄ PROFILE
EXISTING ℄ PROFILE
VPT STA 1044+00.00
VPT EL 1046.74
-3.71%
VCL = 250.00
K = 75.56
VCL = 200.00
K = 125.75
VPC STA 1045+75.00
VPC EL 1040.25
VPI STA 1046+75.00
VPI EL 1036.54
VPT STA 1047+75.00
VPT EL 1 34.43
EXISTING ℄ ELEVATION
FINISHED ℄ ELEVATION

1050 1040 1030 1020

| | | |

WISDOT #4090-06-00 GPR SURVEY AREAS (CORRECTED) (1)



PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN AND PROFILE	SHEET E

FILE NAME : X:\3230500\113975.02\TECH\CADD\40900600\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050107_PP

PLOT DATE : 1/31/2017 3:19 PM PLOT BY : DAVID YAHNKE PLOT NAME : PLOT SCALE : 1 IN:40 FT

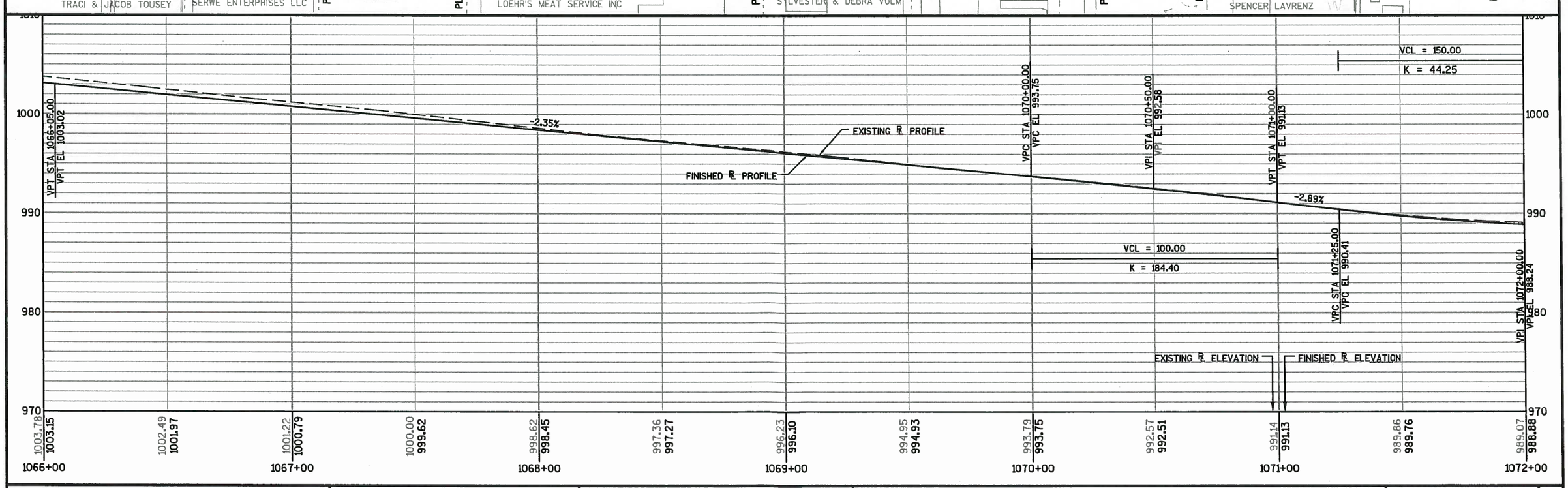
(3)

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
17	1066+11		1002.67
18	1071+64		989.41

MARK FLITTER & JODI OURS
AARON WALSH
DEREK FEUCHT
THOMAS KAPPENSTEIN
JAMES & JOAN BERTRAM
VERIZON NORTH INC
JEROME & JULIANNE HAU FAM TR
TRACI & JACOB TOUSEY
SERWE ENTERPRISES LLC
LUKE KOCH
LOEHR'S MEAT SERVICE INC
SYLVESTER & DEBRA VOLM
GARY & JODY SCHMIDT
WAYNE & CRISTINA DAVID
SPENCER LAVRENZ

CONCRETE CURB PEDESTRIAN
STA 1066+50 LT CONSTRUCT PE
VERIZON TELEPHONE
STA 1067+68 LT CONSTRUCT PE
STA 1068+30 LT CONSTRUCT PE
SLOPE INTERCEPT
STA 1069+50 LT CONSTRUCT PE
ALLIANT ENERGY (GAS)
WE ENERGIES (ELECTRIC)
VILLAGE OF CAMPBELLSPORT
E. MAIN ST.
STH 67
RIVER ST
CAUTION
SITE #25
SITE #26
STA 1067+32 RT CONSTRUCT PE
SLOPE INTERCEPT
STA 1068+75 RT CONSTRUCT CE
ALLIANT ENERGY (GAS)
STA 1069+66 RT CONSTRUCT PE
STA 1070+50 RT CONSTRUCT PE
STA 1070+75 RT CONSTRUCT PE
STA 1071+38 RT CONSTRUCT PE
STA 1072+00 RT CONSTRUCT PE
STA 1071+04.35 = STA 10+00.00
PC: 1070+60.89
BP: 10+00.00
MATCHLINE STA 1066+00
MATCHLINE STA 1072+00

(508) (522) (526) (542) (546) (511) (517) (533)



PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN AND PROFILE	SHEET E

PRE_123

FILE NAME : X:\3230500\113975.02\TECH\CADD\40900600\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050112_PP
PLOT DATE : 1/31/2017 3:19 PM
PLOT BY : DAVID YAHNKE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

Appendix H

Standard Analytical Procedures

Standard Analytical Procedures

Samples were analyzed by Pace Analytical Services, Inc., Green Bay, Wisconsin (Wisconsin Certification No. 405132750).

The analytical methods used were:

- VOCs by EPA Method 8260
- PVOCs + Nap by EPA Mod 8021
- Lead by EPA Method 6010
- Free liquids EPA 9095
- Flash Point EPA 1010
- Lead, total EPA 6010B
- Cadmium EPA 6010
- VOCs EPA 8260
- Benzene, total EPA 8021
- WI MOD DRO
- WI MOD GRO
- PCBs EPA 8082
- Reactive Cyanide EPA 9014
- Reactive Sulfide Method SM4500S2F-00

Sample detection limits for specific analyses are included in the laboratory analytical report.

Appendix I

Laboratory Reports and Chain of Custody Forms

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

March 12, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

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

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165408001	**B14-1 1-2'**	Solid	02/27/18 13:20	03/03/18 09:20
40165408002	**B14-1 9-10'**	Solid	02/27/18 13:40	03/03/18 09:20
40165408003	**B14-2 3-4'**	Solid	02/27/18 09:25	03/03/18 09:20
40165408004	**B14-2 9-10'**	Solid	02/27/18 10:00	03/03/18 09:20
40165408005	**B14-3 2-3'**	Solid	02/27/18 10:15	03/03/18 09:20
40165408006	**B14-3 19-20'**	Solid	02/27/18 10:55	03/03/18 09:20
40165408007	**B14-4 3-4'**	Solid	02/27/18 12:45	03/03/18 09:20
40165408008	**B14-4 15-16'**	Solid	02/27/18 13:05	03/03/18 09:20
40165408009	**B14-2**	Water	02/27/18 11:00	03/03/18 09:20
40165408010	**TRIP BLANK**	Water	03/01/18 00:00	03/03/18 09:20
40165408011	**TRIP BLANK**	Solid	03/01/18 00:00	03/03/18 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165408001	**B14-1 1-2'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165408002	**B14-1 9-10'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165408003	**B14-2 3-4'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165408004	**B14-2 9-10'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165408005	**B14-3 2-3'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165408006	**B14-3 19-20'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165408007	**B14-4 3-4'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165408008	**B14-4 15-16'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165408009	**B14-2**	WI MOD GRO	ALD	10	PASI-G
40165408010	**TRIP BLANK**	WI MOD GRO	ALD	10	PASI-G
40165408011	**TRIP BLANK**	WI MOD GRO	ALD	10	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165408001	**B14-1 1-2'**					
EPA 6010	Lead	36.0	mg/kg	1.4	03/07/18 16:03	
ASTM D2974-87	Percent Moisture	8.4	%	0.10	03/09/18 15:47	
40165408002	**B14-1 9-10'**					
ASTM D2974-87	Percent Moisture	16.4	%	0.10	03/09/18 15:14	
40165408003	**B14-2 3-4'**					
ASTM D2974-87	Percent Moisture	22.2	%	0.10	03/09/18 15:14	
40165408004	**B14-2 9-10'**					
WI MOD GRO	Naphthalene	2070	ug/kg	135	03/06/18 18:31	
WI MOD GRO	1,2,4-Trimethylbenzene	445	ug/kg	135	03/06/18 18:31	
WI MOD GRO	1,3,5-Trimethylbenzene	209	ug/kg	135	03/06/18 18:31	
EPA 6010	Lead	3.1	mg/kg	1.3	03/07/18 16:06	B
ASTM D2974-87	Percent Moisture	7.3	%	0.10	03/09/18 15:47	
40165408005	**B14-3 2-3'**					
EPA 6010	Lead	1.6	mg/kg	1.2	03/07/18 16:13	B
ASTM D2974-87	Percent Moisture	3.4	%	0.10	03/09/18 15:48	
40165408006	**B14-3 19-20'**					
ASTM D2974-87	Percent Moisture	5.7	%	0.10	03/09/18 15:48	
40165408007	**B14-4 3-4'**					
EPA 6010	Lead	31.8	mg/kg	1.4	03/07/18 16:16	
ASTM D2974-87	Percent Moisture	15.0	%	0.10	03/09/18 15:48	
40165408008	**B14-4 15-16'**					
ASTM D2974-87	Percent Moisture	7.7	%	0.10	03/09/18 15:48	
40165408009	**B14-2**					
WI MOD GRO	Benzene	0.87J	ug/L	1.0	03/06/18 15:16	
WI MOD GRO	Ethylbenzene	0.76J	ug/L	1.0	03/06/18 15:16	
WI MOD GRO	Toluene	0.83J	ug/L	1.0	03/06/18 15:16	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

General Information:
11 samples were analyzed for WI MOD GRO. 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 TPH GRO/PVOC WI ext. 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.

Additional Comments:

Analyte Comments:

QC Batch: 282478

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

- B14-2 9-10' (Lab ID: 40165408004)
  - a,a,a-Trifluorotoluene (S)

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(920)469-2436

PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

General Information:
4 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.

QC Batch: 282555

B: Analyte was detected in the associated method blank.
- BLANK for HBN 282555 [MPRP/173 (Lab ID: 1655558)
  - Lead

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.

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-1 1-2' **Lab ID: 40165408001** Collected: 02/27/18 13:20 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:13	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:13	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:13	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:13	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:13	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:13	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:13	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 14:13	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:13	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/06/18 07:30	03/06/18 14:13	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**36.0**	mg/kg	1.4	0.47	1	03/06/18 15:36	03/07/18 16:03	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.4**	%	0.10	0.10	1		03/09/18 15:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-1 9-10' **Lab ID: 40165408002** Collected: 02/27/18 13:40 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:39	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:39	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:39	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:39	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:39	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:39	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:39	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 14:39	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 14:39	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/06/18 07:30	03/06/18 14:39	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.4**	%	0.10	0.10	1		03/09/18 15:14		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-2 3-4' **Lab ID: 40165408003** Collected: 02/27/18 09:25 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:05	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:05	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:05	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:05	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:05	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:05	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:05	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 15:05	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:05	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1	03/06/18 07:30	03/06/18 15:05	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.2**	%	0.10	0.10	1		03/09/18 15:14		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-2 9-10' **Lab ID: 40165408004** Collected: 02/27/18 10:00 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<62.5**	ug/kg	125	62.5	2.5	03/06/18 07:30	03/06/18 18:31	71-43-2	W
Ethylbenzene	**<62.5**	ug/kg	125	62.5	2.5	03/06/18 07:30	03/06/18 18:31	100-41-4	W
Methyl-tert-butyl ether	**<62.5**	ug/kg	125	62.5	2.5	03/06/18 07:30	03/06/18 18:31	1634-04-4	W
Naphthalene	**2070**	ug/kg	135	67.4	2.5	03/06/18 07:30	03/06/18 18:31	91-20-3	
Toluene	**<62.5**	ug/kg	125	62.5	2.5	03/06/18 07:30	03/06/18 18:31	108-88-3	W
1,2,4-Trimethylbenzene	**445**	ug/kg	135	67.4	2.5	03/06/18 07:30	03/06/18 18:31	95-63-6	
1,3,5-Trimethylbenzene	**209**	ug/kg	135	67.4	2.5	03/06/18 07:30	03/06/18 18:31	108-67-8	
m&p-Xylene	**<125**	ug/kg	250	125	2.5	03/06/18 07:30	03/06/18 18:31	179601-23-1	W
o-Xylene	**<62.5**	ug/kg	125	62.5	2.5	03/06/18 07:30	03/06/18 18:31	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		2.5	03/06/18 07:30	03/06/18 18:31	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**3.1**	mg/kg	1.3	0.43	1	03/06/18 15:36	03/07/18 16:06	7439-92-1	B
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.3**	%	0.10	0.10	1		03/09/18 15:47		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-3 2-3' **Lab ID: 40165408005** Collected: 02/27/18 10:15 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:30	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:30	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:30	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:30	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:30	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:30	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:30	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 15:30	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:30	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/06/18 07:30	03/06/18 15:30	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.6**	mg/kg	1.2	0.40	1	03/06/18 15:36	03/07/18 16:13	7439-92-1	B
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.4**	%	0.10	0.10	1		03/09/18 15:48		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-3 19-20' **Lab ID: 40165408006** Collected: 02/27/18 10:55 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:56	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:56	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:56	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:56	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:56	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:56	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:56	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 15:56	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 15:56	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1	03/06/18 07:30	03/06/18 15:56	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.7**	%	0.10	0.10	1		03/09/18 15:48		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-4 3-4' **Lab ID: 40165408007** Collected: 02/27/18 12:45 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:22	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:22	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:22	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:22	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:22	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:22	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:22	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 16:22	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:22	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/06/18 07:30	03/06/18 16:22	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**31.8**	mg/kg	1.4	0.45	1	03/06/18 15:36	03/07/18 16:16	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.0**	%	0.10	0.10	1		03/09/18 15:48		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-4 15-16' **Lab ID: 40165408008** Collected: 02/27/18 13:05 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:15	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:15	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:15	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:15	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:15	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:15	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:15	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 20:15	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:15	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	03/06/18 07:30	03/06/18 20:15	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.7**	%	0.10	0.10	1		03/09/18 15:48		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: B14-2 **Lab ID: 40165408009** Collected: 02/27/18 11:00 Received: 03/03/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**0.87J**	ug/L	1.0	0.40	1		03/06/18 15:16	71-43-2	
Ethylbenzene	**0.76J**	ug/L	1.0	0.39	1		03/06/18 15:16	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/06/18 15:16	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/06/18 15:16	91-20-3	
Toluene	**0.83J**	ug/L	1.0	0.39	1		03/06/18 15:16	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/06/18 15:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/06/18 15:16	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/06/18 15:16	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/06/18 15:16	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		03/06/18 15:16	98-08-8	

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: TRIP BLANK **Lab ID: 40165408010** Collected: 03/01/18 00:00 Received: 03/03/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		03/06/18 13:07	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/06/18 13:07	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/06/18 13:07	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/06/18 13:07	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/06/18 13:07	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/06/18 13:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/06/18 13:07	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/06/18 13:07	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/06/18 13:07	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		03/06/18 13:07	98-08-8	

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Sample: TRIP BLANK **Lab ID: 40165408011** Collected: 03/01/18 00:00 Received: 03/03/18 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:48	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:48	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:48	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:48	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:48	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:48	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:48	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 16:48	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 16:48	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1	03/06/18 07:30	03/06/18 16:48	98-08-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

QC Batch: 282478 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40165408001, 40165408002, 40165408003, 40165408004, 40165408005, 40165408006, 40165408007, 40165408008, 40165408011

METHOD BLANK: 1655222 Matrix: Solid
Associated Lab Samples: 40165408001, 40165408002, 40165408003, 40165408004, 40165408005, 40165408006, 40165408007, 40165408008, 40165408011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	03/06/18 09:03	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	03/06/18 09:03	
Benzene	ug/kg	<25.0	50.0	03/06/18 09:03	
Ethylbenzene	ug/kg	<25.0	50.0	03/06/18 09:03	
m&p-Xylene	ug/kg	<50.0	100	03/06/18 09:03	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	03/06/18 09:03	
Naphthalene	ug/kg	<25.0	50.0	03/06/18 09:03	
o-Xylene	ug/kg	<25.0	50.0	03/06/18 09:03	
Toluene	ug/kg	<25.0	50.0	03/06/18 09:03	
a,a,a-Trifluorotoluene (S)	%	98	80-120	03/06/18 09:03	

LABORATORY CONTROL SAMPLE & LCSD: 1655223 1655224

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1030	1080	103	108	80-120	5	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1000	1050	100	105	80-120	5	20	
Benzene	ug/kg	1000	968	1020	97	102	80-120	5	20	
Ethylbenzene	ug/kg	1000	998	1050	100	105	80-120	5	20	
m&p-Xylene	ug/kg	2000	1970	2070	99	103	80-120	5	20	
Methyl-tert-butyl ether	ug/kg	1000	942	1000	94	100	80-120	6	20	
Naphthalene	ug/kg	1000	910	971	91	97	80-120	7	20	
o-Xylene	ug/kg	1000	987	1030	99	103	80-120	5	20	
Toluene	ug/kg	1000	978	1020	98	102	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				99	99	80-120			

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(920)469-2436

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

QC Batch: 282476 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40165408009, 40165408010

METHOD BLANK: 1655219 Matrix: Water
Associated Lab Samples: 40165408009, 40165408010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/06/18 08:49	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/06/18 08:49	
Benzene	ug/L	<0.40	1.0	03/06/18 08:49	
Ethylbenzene	ug/L	<0.39	1.0	03/06/18 08:49	
m&p-Xylene	ug/L	<0.80	2.0	03/06/18 08:49	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/06/18 08:49	
Naphthalene	ug/L	<0.42	1.0	03/06/18 08:49	
o-Xylene	ug/L	<0.45	1.0	03/06/18 08:49	
Toluene	ug/L	<0.39	1.0	03/06/18 08:49	
a,a,a-Trifluorotoluene (S)	%	103	80-120	03/06/18 08:49	

LABORATORY CONTROL SAMPLE & LCSD: 1655220 1655221

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.7	21.8	109	109	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.9	21.0	105	105	80-120	0	20	
Benzene	ug/L	20	20.7	20.7	104	104	80-120	0	20	
Ethylbenzene	ug/L	20	21.3	21.4	107	107	80-120	0	20	
m&p-Xylene	ug/L	40	42.0	42.4	105	106	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	19.7	20.5	98	102	80-120	4	20	
Naphthalene	ug/L	20	21.3	22.8	107	114	80-120	7	20	
o-Xylene	ug/L	20	21.3	21.4	106	107	80-120	1	20	
Toluene	ug/L	20	21.0	21.0	105	105	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	99	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655472 1655473

Parameter	Units	40165353013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	21.3	21.7	107	109	11-200	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	20.0	20.5	100	103	54-142	3	20	
Benzene	ug/L	0.70J	20	20	23.5	23.2	114	112	66-140	1	20	
Ethylbenzene	ug/L	<0.39	20	20	23.3	23.5	117	117	66-143	1	20	
m&p-Xylene	ug/L	<0.80	40	40	44.3	45.1	111	113	60-141	2	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	20.5	20.3	102	101	70-129	1	20	
Naphthalene	ug/L	0.84J	20	20	22.0	23.0	106	111	64-129	4	20	
o-Xylene	ug/L	<0.45	20	20	22.1	22.5	111	113	68-132	2	20	
Toluene	ug/L	<0.39	20	20	23.2	23.2	116	116	76-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655472 1655473

Parameter	Units	40165353013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
a,a,a-Trifluorotoluene (S)	%						102	101	80-120			

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

QC Batch: 282555 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165408001, 40165408004, 40165408005, 40165408007

METHOD BLANK: 1655558 Matrix: Solid
Associated Lab Samples: 40165408001, 40165408004, 40165408005, 40165408007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	0.46J	1.3	03/07/18 15:18	

LABORATORY CONTROL SAMPLE: 1655559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	47.2	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655560 1655561

Parameter	Units	40165335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	14.0	55.4	55.5	59.0	65.3	81	92	75-125	10	20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

QC Batch: 282933
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165408002, 40165408003

SAMPLE DUPLICATE: 1657406

Parameter	Units	40165400013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.6	12.0	5	10	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

QC Batch: 282937 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165408001, 40165408004, 40165408005, 40165408006, 40165408007, 40165408008

SAMPLE DUPLICATE: 1657416

Parameter	Units	40165410003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	19.6	6	10	

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 SITE 14
Pace Project No.: 40165408

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165408001	**B14-1 1-2'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408002	**B14-1 9-10'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408003	**B14-2 3-4'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408004	**B14-2 9-10'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408005	**B14-3 2-3'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408006	**B14-3 19-20'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408007	**B14-4 3-4'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408008	**B14-4 15-16'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408011	**TRIP BLANK**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165408009	**B14-2**	WI MOD GRO	282476		
40165408010	**TRIP BLANK**	WI MOD GRO	282476		
40165408001	**B14-1 1-2'**	EPA 3050	282555	EPA 6010	282672
40165408004	**B14-2 9-10'**	EPA 3050	282555	EPA 6010	282672
40165408005	**B14-3 2-3'**	EPA 3050	282555	EPA 6010	282672
40165408007	**B14-4 3-4'**	EPA 3050	282555	EPA 6010	282672
40165408001	**B14-1 1-2'**	ASTM D2974-87	282937		
40165408002	**B14-1 9-10'**	ASTM D2974-87	282933		
40165408003	**B14-2 3-4'**	ASTM D2974-87	282933		
40165408004	**B14-2 9-10'**	ASTM D2974-87	282937		
40165408005	**B14-3 2-3'**	ASTM D2974-87	282937		
40165408006	**B14-3 19-20'**	ASTM D2974-87	282937		
40165408007	**B14-4 3-4'**	ASTM D2974-87	282937		
40165408008	**B14-4 15-16'**	ASTM D2974-87	282937		

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Pace Analytical
www.pacelabs.com

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

CHAIN OF CUSTODY

40165408

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagner
Phone:	715-342-3038
Project Number:	60558672
Project Name:	WIS 67 Phase 2.5 - Site 14
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	
PO #:	Regulatory Program:

*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

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

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOC & Naph	Lead / Moisture	Moisture	PVOC & Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
							F	A	A	B			
001	B14-1 1-2'	2/27/18	13:20	S			✓	✓					
002	B14-1 9-10'	2/27/18	13:40	S			✓		✓				
003	B14-2 3-4'	2/27/18	9:25	S			✓		✓				
004	B14-2 9-10'	2/27/18	10:00	S			✓	✓					
005	B14-3 2-3'	2/27/18	10:15	S			✓	✓					
006	B14-3 19-20'	2/27/18	10:55	S			✓		✓				
007	B14-4 3-4'	2/27/18	12:45	S			✓	✓					
008	B14-4 15-16'	2/27/18	13:05	S			✓		✓				
009	B14-2	2/27/18	11:00	W			✓			✓			
010	Trip Blank	3/1/18	-	W						✓			
011	Trip Blank	3/1/18	-	S			✓						

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:
Dan Barton	3/2/18 10:20		
UPS	3/3/18 0920	Kyle Schramm Pace	3/3/18 0920

PACE Project No.: 40165408

Receipt Temp = 2.0 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: AECOM

Project # 40165408

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																			1				1										2.5 / 5 / 10
002																			1				1										2.5 / 5 / 10
003																			1				1										2.5 / 5 / 10
004																			1				1										2.5 / 5 / 10
005																			1				1										2.5 / 5 / 10
006																			1				1										2.5 / 5 / 10
007																			1				1										2.5 / 5 / 10
008																			1				1										2.5 / 5 / 10
009																			1				1										2.5 / 5 / 10
010																		3									1						2.5 / 5 / 10
011																		2															2.5 / 5 / 10
012																			1														2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4		

JGFU	4 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40165408

40165408

Client Name: AECOM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☑ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1ZA478E94195579279

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: RO1

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3/3/18
Initials: KS

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 MS/MSD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WTS		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 394, 67-56-1		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CM **Date:** 3/5/18

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March 13, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Green Bay Certification IDs

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165410001	**B16-1 1-2'**	Solid	02/27/18 15:00	03/03/18 09:20
40165410002	**B16-1 16-17'**	Solid	02/27/18 15:35	03/03/18 09:20
40165410003	**B16-2 2-3'**	Solid	02/27/18 14:10	03/03/18 09:20
40165410004	**B16-2 9-10'**	Solid	02/27/18 14:30	03/03/18 09:20

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165410001	**B16-1 1-2'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165410002	**B16-1 16-17'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165410003	**B16-2 2-3'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165410004	**B16-2 9-10'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165410001	**B16-1 1-2'**					
ASTM D2974-87	Percent Moisture	19.5	%	0.10	03/09/18 15:51	
40165410002	**B16-1 16-17'**					
WI MOD GRO	Ethylbenzene	3360	ug/kg	222	03/06/18 18:06	
WI MOD GRO	Naphthalene	4030	ug/kg	222	03/06/18 18:06	
WI MOD GRO	1,2,4-Trimethylbenzene	20300	ug/kg	222	03/06/18 18:06	
WI MOD GRO	1,3,5-Trimethylbenzene	7010	ug/kg	222	03/06/18 18:06	
WI MOD GRO	m&p-Xylene	16100	ug/kg	445	03/06/18 18:06	
WI MOD GRO	o-Xylene	2910	ug/kg	222	03/06/18 18:06	
EPA 6010	Lead	5.3	mg/kg	1.3	03/09/18 19:22	
ASTM D2974-87	Percent Moisture	10.1	%	0.10	03/09/18 15:51	
40165410003	**B16-2 2-3'**					
EPA 6010	Lead	16.0	mg/kg	3.0	03/12/18 14:08	
ASTM D2974-87	Percent Moisture	20.7	%	0.10	03/09/18 15:51	
40165410004	**B16-2 9-10'**					
ASTM D2974-87	Percent Moisture	19.2	%	0.10	03/09/18 15:51	

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
4 samples were analyzed for WI MOD GRO. 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 TPH GRO/PVOC WI ext. 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
2 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.

QC Batch: 282781

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40165404001

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

- MS (Lab ID: 1656576)
  - Lead
- MSD (Lab ID: 1656577)
  - Lead

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Sample: B16-1 1-2' **Lab ID: 40165410001** Collected: 02/27/18 15:00 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:41	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:41	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:41	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:41	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:41	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:41	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:41	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 20:41	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 20:41	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/06/18 07:30	03/06/18 20:41	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.5**	%	0.10	0.10	1		03/09/18 15:51		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Sample: B16-1 16-17' **Lab ID: 40165410002** Collected: 02/27/18 15:35 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<100**	ug/kg	200	100	4	03/06/18 07:30	03/06/18 18:06	71-43-2	W
Ethylbenzene	**3360**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	100-41-4	
Methyl-tert-butyl ether	**<100**	ug/kg	200	100	4	03/06/18 07:30	03/06/18 18:06	1634-04-4	W
Naphthalene	**4030**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	91-20-3	
Toluene	**<100**	ug/kg	200	100	4	03/06/18 07:30	03/06/18 18:06	108-88-3	W
1,2,4-Trimethylbenzene	**20300**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	95-63-6	
1,3,5-Trimethylbenzene	**7010**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	108-67-8	
m&p-Xylene	**16100**	ug/kg	445	222	4	03/06/18 07:30	03/06/18 18:06	179601-23-1	
o-Xylene	**2910**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		4	03/06/18 07:30	03/06/18 18:06	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**5.3**	mg/kg	1.3	0.44	1	03/09/18 08:20	03/09/18 19:22	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.1**	%	0.10	0.10	1		03/09/18 15:51		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Sample: B16-2 2-3' **Lab ID: 40165410003** Collected: 02/27/18 14:10 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:07	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:07	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:07	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:07	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:07	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:07	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:07	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 21:07	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:07	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	80-120		1	03/06/18 07:30	03/06/18 21:07	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**16.0**	mg/kg	3.0	1.0	2	03/09/18 08:20	03/12/18 14:08	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.7**	%	0.10	0.10	1		03/09/18 15:51		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Sample: B16-2 9-10' **Lab ID: 40165410004** Collected: 02/27/18 14:30 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:32	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:32	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:32	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:32	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:32	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:32	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:32	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/06/18 07:30	03/06/18 21:32	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 21:32	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/06/18 07:30	03/06/18 21:32	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.2**	%	0.10	0.10	1		03/09/18 15:51		

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

QC Batch: 282478 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40165410001, 40165410002, 40165410003, 40165410004

METHOD BLANK: 1655222 Matrix: Solid
Associated Lab Samples: 40165410001, 40165410002, 40165410003, 40165410004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	03/06/18 09:03	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	03/06/18 09:03	
Benzene	ug/kg	<25.0	50.0	03/06/18 09:03	
Ethylbenzene	ug/kg	<25.0	50.0	03/06/18 09:03	
m&p-Xylene	ug/kg	<50.0	100	03/06/18 09:03	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	03/06/18 09:03	
Naphthalene	ug/kg	<25.0	50.0	03/06/18 09:03	
o-Xylene	ug/kg	<25.0	50.0	03/06/18 09:03	
Toluene	ug/kg	<25.0	50.0	03/06/18 09:03	
a,a,a-Trifluorotoluene (S)	%	98	80-120	03/06/18 09:03	

LABORATORY CONTROL SAMPLE & LCSD: 1655223 1655224

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1030	1080	103	108	80-120	5	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1000	1050	100	105	80-120	5	20	
Benzene	ug/kg	1000	968	1020	97	102	80-120	5	20	
Ethylbenzene	ug/kg	1000	998	1050	100	105	80-120	5	20	
m&p-Xylene	ug/kg	2000	1970	2070	99	103	80-120	5	20	
Methyl-tert-butyl ether	ug/kg	1000	942	1000	94	100	80-120	6	20	
Naphthalene	ug/kg	1000	910	971	91	97	80-120	7	20	
o-Xylene	ug/kg	1000	987	1030	99	103	80-120	5	20	
Toluene	ug/kg	1000	978	1020	98	102	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				99	99	80-120			

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.

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

QC Batch: 282781 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165410002, 40165410003

METHOD BLANK: 1656574 Matrix: Solid
Associated Lab Samples: 40165410002, 40165410003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.3	03/09/18 19:02	

LABORATORY CONTROL SAMPLE: 1656575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1656576 1656577

Parameter	Units	40165404001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	16.3	53.6	53.6	56.1	51.7	74	66	75-125	8	20	M0

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

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

QC Batch: 282937 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165410001, 40165410002, 40165410003, 40165410004

SAMPLE DUPLICATE: 1657416

Parameter	Units	40165410003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	19.6	6	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165410001	**B16-1 1-2'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165410002	**B16-1 16-17'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165410003	**B16-2 2-3'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165410004	**B16-2 9-10'**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165410002	**B16-1 16-17'**	EPA 3050	282781	EPA 6010	282941
40165410003	**B16-2 2-3'**	EPA 3050	282781	EPA 6010	282941
40165410001	**B16-1 1-2'**	ASTM D2974-87	282937		
40165410002	**B16-1 16-17'**	ASTM D2974-87	282937		
40165410003	**B16-2 2-3'**	ASTM D2974-87	282937		
40165410004	**B16-2 9-10'**	ASTM D2974-87	282937		

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

Page 1 of 1

SSM

40165410

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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagner
Phone:	715-342-3038
Project Number:	60558672
Project Name:	WIS 67 Phase 2.5 - Site 16
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	Dan Barton
PO #:	Regulatory Program:

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

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOCs + Naph	Lead / Moisture	Moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	B16-1 1-2'	2/27/18	15:00	S		F	✓		✓			
002	B16-1 16-17'	2/27/18	15:35	S		A	✓	✓				
003	B16-2 2-3'	2/27/18	14:10	S		A	✓	✓				
004	B16-2 9-10'	2/27/18	14:30	S		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:
Dan Barton	3/2/18 10:20		
UPS	3/3/18 0920	Pace	3/3/18 0920

PACE Project No.: 40165410

Receipt Temp = R01 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0, 06/14/06

ORIGINAL

Client Name: AECOM

Sample Preservation Receipt Form

Project # 40165440

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																			—				—										2.5 / 5 / 10
002																			—				—										2.5 / 5 / 10
003																			—				—										2.5 / 5 / 10
004																			—				—										2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 31Jan2018
	Document No.: **F-GB-C-031-rev.06**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40165410

40165410

Client Name: AECOM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☑ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1ZA478E94955792 79

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: RO1

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 3/3/18
Initials: KS

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

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 MS/MSD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CH **Date:** 3/5/18

Pace Analytical Services, LLC
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(920)469-2436

March 13, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165411001	**B18-1 2-3'**	Solid	02/28/18 08:30	03/03/18 09:20
40165411002	**B18-1 18-19'**	Solid	02/28/18 08:45	03/03/18 09:20
40165411003	**B18-2 3-4'**	Solid	02/28/18 08:55	03/03/18 09:20
40165411004	**B18-2 14-15'**	Solid	02/28/18 09:10	03/03/18 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165411001	**B18-1 2-3'**	EPA 6010	JLD	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165411002	**B18-1 18-19'**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165411003	**B18-2 3-4'**	EPA 6010	JLD	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165411004	**B18-2 14-15'**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	DXS	1	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165411001	**B18-1 2-3'**					
EPA 6010	Lead	9.0	mg/kg	1.6	03/09/18 19:27	
ASTM D2974-87	Percent Moisture	19.7	%	0.10	03/09/18 15:51	
40165411002	**B18-1 18-19'**					
ASTM D2974-87	Percent Moisture	6.3	%	0.10	03/09/18 15:51	
40165411003	**B18-2 3-4'**					
EPA 6010	Lead	14.7	mg/kg	2.9	03/12/18 14:11	
ASTM D2974-87	Percent Moisture	18.2	%	0.10	03/09/18 15:51	
40165411004	**B18-2 14-15'**					
ASTM D2974-87	Percent Moisture	5.9	%	0.10	03/09/18 15:51	

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
2 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.

QC Batch: 282781

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40165404001

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

- MS (Lab ID: 1656576)
  - Lead
- MSD (Lab ID: 1656577)
  - Lead

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
4 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:

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Sample: B18-1 2-3' **Lab ID: 40165411001** Collected: 02/28/18 08:30 Received: 03/03/18 09:20 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**9.0**	mg/kg	1.6	0.53	1	03/09/18 08:20	03/09/18 19:27	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/07/18 00:52	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/07/18 00:52	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/07/18 00:52	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/07/18 00:52	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	1634-04-4	W

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(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Sample: B18-1 2-3' **Lab ID: 40165411001** Collected: 02/28/18 08:30 Received: 03/03/18 09:20 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								
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/07/18 00:52	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/07/18 00:52	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/07/18 00:52	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:52	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	68-130		1	03/06/18 08:15	03/07/18 00:52	1868-53-7	
Toluene-d8 (S)	91	%	68-149		1	03/06/18 08:15	03/07/18 00:52	2037-26-5	
4-Bromofluorobenzene (S)	84	%	58-141		1	03/06/18 08:15	03/07/18 00:52	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.7**	%	0.10	0.10	1		03/09/18 15:51		

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(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Sample: B18-1 18-19' **Lab ID: 40165411002** Collected: 02/28/18 08:45 Received: 03/03/18 09:20 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/07/18 01:15	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/07/18 01:15	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/07/18 01:15	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/07/18 01:15	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/07/18 01:15	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	100-42-5	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Sample: B18-1 18-19' **Lab ID: 40165411002** Collected: 02/28/18 08:45 Received: 03/03/18 09:20 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/07/18 01:15	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/07/18 01:15	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:15	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	68-130		1	03/06/18 08:15	03/07/18 01:15	1868-53-7	
Toluene-d8 (S)	101	%	68-149		1	03/06/18 08:15	03/07/18 01:15	2037-26-5	
4-Bromofluorobenzene (S)	91	%	58-141		1	03/06/18 08:15	03/07/18 01:15	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.3**	%	0.10	0.10	1		03/09/18 15:51		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Sample: B18-2 3-4' **Lab ID: 40165411003** Collected: 02/28/18 08:55 Received: 03/03/18 09:20 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**14.7**	mg/kg	2.9	0.98	2	03/09/18 08:20	03/12/18 14:11	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/07/18 01:38	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/07/18 01:38	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/07/18 01:38	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/07/18 01:38	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	1634-04-4	W

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(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Sample: B18-2 3-4' **Lab ID: 40165411003** Collected: 02/28/18 08:55 Received: 03/03/18 09:20 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								
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/07/18 01:38	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/07/18 01:38	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/07/18 01:38	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 01:38	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	68-130		1	03/06/18 08:15	03/07/18 01:38	1868-53-7	
Toluene-d8 (S)	108	%	68-149		1	03/06/18 08:15	03/07/18 01:38	2037-26-5	
4-Bromofluorobenzene (S)	96	%	58-141		1	03/06/18 08:15	03/07/18 01:38	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.2**	%	0.10	0.10	1		03/09/18 15:51		

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(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Sample: B18-2 14-15' **Lab ID: 40165411004** Collected: 02/28/18 09:10 Received: 03/03/18 09:20 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/07/18 02:01	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/07/18 02:01	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/07/18 02:01	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/07/18 02:01	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/07/18 02:01	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	100-42-5	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Sample: B18-2 14-15' **Lab ID: 40165411004** Collected: 02/28/18 09:10 Received: 03/03/18 09:20 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/07/18 02:01	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/07/18 02:01	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 02:01	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	68-130		1	03/06/18 08:15	03/07/18 02:01	1868-53-7	
Toluene-d8 (S)	96	%	68-149		1	03/06/18 08:15	03/07/18 02:01	2037-26-5	
4-Bromofluorobenzene (S)	83	%	58-141		1	03/06/18 08:15	03/07/18 02:01	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.9**	%	0.10	0.10	1		03/09/18 15:51		

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

QC Batch: 282781 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165411001, 40165411003

METHOD BLANK: 1656574 Matrix: Solid
Associated Lab Samples: 40165411001, 40165411003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.3	03/09/18 19:02	

LABORATORY CONTROL SAMPLE: 1656575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1656576 1656577

Parameter	Units	40165404001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	16.3	53.6	53.6	56.1	51.7	74	66	75-125	8	20	M0

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

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

QC Batch: 282565 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40165411001, 40165411002, 40165411003, 40165411004

METHOD BLANK: 1655579 Matrix: Solid
Associated Lab Samples: 40165411001, 40165411002, 40165411003, 40165411004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	03/06/18 10:13	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/06/18 10:13	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	03/06/18 10:13	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/06/18 10:13	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/06/18 10:13	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/06/18 10:13	
1,1-Dichloropropene	ug/kg	<14.0	50.0	03/06/18 10:13	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	03/06/18 10:13	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	03/06/18 10:13	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	03/06/18 10:13	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	03/06/18 10:13	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	03/06/18 10:13	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	03/06/18 10:13	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	03/06/18 10:13	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/06/18 10:13	
1,2-Dichloropropane	ug/kg	<16.8	50.0	03/06/18 10:13	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	03/06/18 10:13	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	03/06/18 10:13	
1,3-Dichloropropane	ug/kg	<12.0	50.0	03/06/18 10:13	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	03/06/18 10:13	
2,2-Dichloropropane	ug/kg	<12.6	50.0	03/06/18 10:13	
2-Chlorotoluene	ug/kg	<15.8	50.0	03/06/18 10:13	
4-Chlorotoluene	ug/kg	<13.0	50.0	03/06/18 10:13	
Benzene	ug/kg	<9.2	20.0	03/06/18 10:13	
Bromobenzene	ug/kg	<20.6	50.0	03/06/18 10:13	
Bromochloromethane	ug/kg	<21.4	50.0	03/06/18 10:13	
Bromodichloromethane	ug/kg	<9.8	50.0	03/06/18 10:13	
Bromoform	ug/kg	<19.8	50.0	03/06/18 10:13	
Bromomethane	ug/kg	<69.9	250	03/06/18 10:13	
Carbon tetrachloride	ug/kg	<12.1	50.0	03/06/18 10:13	
Chlorobenzene	ug/kg	<14.8	50.0	03/06/18 10:13	
Chloroethane	ug/kg	<67.0	250	03/06/18 10:13	
Chloroform	ug/kg	<46.4	250	03/06/18 10:13	
Chloromethane	ug/kg	<20.4	50.0	03/06/18 10:13	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/06/18 10:13	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	03/06/18 10:13	
Dibromochloromethane	ug/kg	<17.9	50.0	03/06/18 10:13	
Dibromomethane	ug/kg	<19.3	50.0	03/06/18 10:13	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	03/06/18 10:13	
Diisopropyl ether	ug/kg	<17.7	50.0	03/06/18 10:13	
Ethylbenzene	ug/kg	<12.4	50.0	03/06/18 10:13	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

METHOD BLANK: 1655579 Matrix: Solid
Associated Lab Samples: 40165411001, 40165411002, 40165411003, 40165411004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	03/06/18 10:13	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	03/06/18 10:13	
m&p-Xylene	ug/kg	<34.4	100	03/06/18 10:13	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	03/06/18 10:13	
Methylene Chloride	ug/kg	<16.2	50.0	03/06/18 10:13	
n-Butylbenzene	ug/kg	<10.5	50.0	03/06/18 10:13	
n-Propylbenzene	ug/kg	<11.6	50.0	03/06/18 10:13	
Naphthalene	ug/kg	<40.0	250	03/06/18 10:13	
o-Xylene	ug/kg	<14.0	50.0	03/06/18 10:13	
p-Isopropyltoluene	ug/kg	<12.0	50.0	03/06/18 10:13	
sec-Butylbenzene	ug/kg	<11.9	50.0	03/06/18 10:13	
Styrene	ug/kg	<9.0	50.0	03/06/18 10:13	
tert-Butylbenzene	ug/kg	<9.5	50.0	03/06/18 10:13	
Tetrachloroethene	ug/kg	<12.9	50.0	03/06/18 10:13	
Toluene	ug/kg	<11.2	50.0	03/06/18 10:13	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/06/18 10:13	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	03/06/18 10:13	
Trichloroethene	ug/kg	<23.6	50.0	03/06/18 10:13	
Trichlorofluoromethane	ug/kg	<24.7	50.0	03/06/18 10:13	
Vinyl chloride	ug/kg	<21.1	50.0	03/06/18 10:13	
4-Bromofluorobenzene (S)	%	81	58-141	03/06/18 10:13	
Dibromofluoromethane (S)	%	90	68-130	03/06/18 10:13	
Toluene-d8 (S)	%	92	68-149	03/06/18 10:13	

LABORATORY CONTROL SAMPLE: 1655580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2440	98	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2410	97	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2460	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2470	99	63-124	
1,1-Dichloroethene	ug/kg	2500	2480	99	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	2120	85	78-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2580	103	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2400	96	70-130	
1,2-Dichloroethane	ug/kg	2500	2440	98	56-135	
1,2-Dichloropropane	ug/kg	2500	2510	100	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2350	94	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2290	92	70-130	
Benzene	ug/kg	2500	2380	95	66-130	
Bromodichloromethane	ug/kg	2500	2510	100	62-135	
Bromoform	ug/kg	2500	2200	88	68-130	
Bromomethane	ug/kg	2500	2120	85	29-137	

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

LABORATORY CONTROL SAMPLE: 1655580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2460	98	57-130	
Chlorobenzene	ug/kg	2500	2500	100	70-130	
Chloroethane	ug/kg	2500	2350	94	36-144	
Chloroform	ug/kg	2500	2410	96	69-115	
Chloromethane	ug/kg	2500	2060	82	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2280	91	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2490	100	70-130	
Dibromochloromethane	ug/kg	2500	2310	92	70-130	
Dichlorodifluoromethane	ug/kg	2500	1370	55	10-99	
Ethylbenzene	ug/kg	2500	2430	97	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2430	97	70-130	
m&p-Xylene	ug/kg	5000	4900	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2390	96	63-134	
Methylene Chloride	ug/kg	2500	2500	100	56-123	
o-Xylene	ug/kg	2500	2470	99	70-130	
Styrene	ug/kg	2500	2540	102	70-130	
Tetrachloroethene	ug/kg	2500	2410	97	70-131	
Toluene	ug/kg	2500	2420	97	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2480	99	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2380	95	68-130	
Trichloroethene	ug/kg	2500	2390	96	70-130	
Trichlorofluoromethane	ug/kg	2500	2290	92	37-149	
Vinyl chloride	ug/kg	2500	2200	88	43-128	
4-Bromofluorobenzene (S)	%			86	58-141	
Dibromofluoromethane (S)	%			95	68-130	
Toluene-d8 (S)	%			89	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655581 1655582

Parameter	Units	40165409004 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	1380	1380	1190	1210	86	87	57-123	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1460	1360	106	99	73-135	7	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1420	1420	102	102	70-130	0	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1380	1340	100	97	63-124	3	20	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1140	1240	82	90	48-117	8	23	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1380	1380	1350	1270	97	92	78-145	6	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1380	1380	1290	1180	94	86	38-168	9	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1430	1430	103	103	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1470	1380	106	100	70-130	6	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1430	1380	103	100	56-145	3	20	
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1360	1440	99	104	77-123	5	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1400	1330	101	96	70-130	5	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1460	1360	105	99	70-130	6	20	

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655581 1655582

Parameter	Units	40165409004 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	1380	1380	1330	1310	96	95	65-130	1	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1300	1320	94	96	59-141	2	20	
Bromoform	ug/kg	<25.0	1380	1380	1350	1290	98	94	59-141	4	20	
Bromomethane	ug/kg	<69.9	1380	1380	1200	1200	87	87	28-139	0	20	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1160	1170	84	85	50-130	1	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1340	1390	97	101	70-130	4	20	
Chloroethane	ug/kg	<67.0	1380	1380	1320	1280	95	93	36-144	3	20	
Chloroform	ug/kg	<46.4	1380	1380	1340	1320	97	96	68-122	1	20	
Chloromethane	ug/kg	<25.0	1380	1380	1220	1220	88	88	30-126	0	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1240	1250	89	90	63-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1290	1320	93	95	70-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1380	1380	1320	1370	96	99	66-136	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	906	940	65	68	10-99	4	33	
Ethylbenzene	ug/kg	<25.0	1380	1380	1240	1260	89	91	80-122	2	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1230	1290	89	93	70-130	5	20	
m&p-Xylene	ug/kg	<50.0	2770	2770	2640	2690	95	97	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1390	1300	101	94	63-134	7	20	
Methylene Chloride	ug/kg	<25.0	1380	1380	1390	1380	100	100	56-127	1	20	
o-Xylene	ug/kg	<25.0	1380	1380	1340	1360	97	98	70-130	1	20	
Styrene	ug/kg	<25.0	1380	1380	1340	1400	97	101	70-130	4	20	
Tetrachloroethene	ug/kg	<25.0	1380	1380	1230	1300	89	94	70-131	6	20	
Toluene	ug/kg	<25.0	1380	1380	1270	1290	92	93	80-120	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1280	1300	92	94	60-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1350	1350	97	97	68-130	0	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1240	1280	89	93	70-130	4	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1090	1140	79	82	37-149	5	24	
Vinyl chloride	ug/kg	<25.0	1380	1380	1180	1220	85	88	39-128	3	20	
4-Bromofluorobenzene (S)	%						91	90	58-141			
Dibromofluoromethane (S)	%						104	102	68-130			
Toluene-d8 (S)	%						93	96	68-149			

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

QC Batch: 282937 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165411001, 40165411002, 40165411003, 40165411004

SAMPLE DUPLICATE: 1657416

Parameter	Units	40165410003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	19.6	6	10	

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 SITE 18
Pace Project No.: 40165411

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165411001	**B18-1 2-3'**	EPA 3050	282781	EPA 6010	282941
40165411003	**B18-2 3-4'**	EPA 3050	282781	EPA 6010	282941
40165411001	**B18-1 2-3'**	EPA 5035/5030B	282565	EPA 8260	282566
40165411002	**B18-1 18-19'**	EPA 5035/5030B	282565	EPA 8260	282566
40165411003	**B18-2 3-4'**	EPA 5035/5030B	282565	EPA 8260	282566
40165411004	**B18-2 14-15'**	EPA 5035/5030B	282565	EPA 8260	282566
40165411001	**B18-1 2-3'**	ASTM D2974-87	282937		
40165411002	**B18-1 18-19'**	ASTM D2974-87	282937		
40165411003	**B18-2 3-4'**	ASTM D2974-87	282937		
40165411004	**B18-2 14-15'**	ASTM D2974-87	282937		

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

40165411

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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagner
Phone:	715-342-3038
Project Number:	60558672
Project Name:	Wis 67 Phase 2.5 - Site 18
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	
PO #:	
Regulatory Program:	

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

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: VOC	Lead / Moisture	Moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				Y/N					
	PRESERVATION (CODE)*				Pick Letter	F	A	A		
001	B18-1 2-3'	2/28/18	8:30	S	✓	✓				
002	B18-1 18-19'	2/28/18	8:45	S	✓		✓			
003	B18-2 3-4'	2/28/18	8:55	S	✓	✓	✓			
004	B18-2 14-15'	2/28/18	9:10	S	✓		✓			

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:
[signature]	3/2/18 10:20		
UPS	3/3/18 0920	[signature] Pace	3/3/18 0920

PACE Project No.: 40165411

Receipt Temp = R01 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: AECOM

Project # 40165911

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 31Jan2018
	Document No.: **F-GB-C-031-rev.06**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 40165411**

40165411

Client Name: AECOM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☑ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1ZA478E94955792 79

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: RO1

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3/3/18
Initials: KS

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 MS/MSD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: JA **Date:** 3/5/18

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

March 12, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Green Bay Certification IDs

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165409001	**B19-1 2-3'**	Solid	02/28/18 09:20	03/03/18 09:20
40165409002	**B19-1 8-9'**	Solid	02/28/18 09:30	03/03/18 09:20
40165409003	**B19-2 1-2'**	Solid	02/28/18 10:05	03/03/18 09:20
40165409004	**B19-2 14-15'**	Solid	02/28/18 10:30	03/03/18 09:20

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165409001	**B19-1 2-3'**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165409002	**B19-1 8-9'**	EPA 6010	JLD	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SSM	1	PASI-G
40165409003	**B19-2 1-2'**	EPA 6010	JLD	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165409004	**B19-2 14-15'**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	DXS	1	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165409001	**B19-1 2-3'**					
ASTM D2974-87	Percent Moisture	11.5	%	0.10	03/09/18 15:50	
40165409002	**B19-1 8-9'**					
EPA 6010	Lead	102	mg/kg	1.7	03/07/18 16:18	
ASTM D2974-87	Percent Moisture	27.7	%	0.10	03/08/18 16:54	
40165409003	**B19-2 1-2'**					
EPA 6010	Lead	10.1	mg/kg	1.7	03/07/18 16:20	
ASTM D2974-87	Percent Moisture	24.1	%	0.10	03/09/18 15:50	
40165409004	**B19-2 14-15'**					
ASTM D2974-87	Percent Moisture	9.7	%	0.10	03/09/18 15:51	

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

General Information:
2 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:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

General Information:
4 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:

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Sample: B19-1 2-3' **Lab ID: 40165409001** Collected: 02/28/18 09:20 Received: 03/03/18 09:20 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/06/18 23:42	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/06/18 23:42	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/06/18 23:42	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/06/18 23:42	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/06/18 23:42	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Sample: B19-1 2-3' **Lab ID: 40165409001** Collected: 02/28/18 09:20 Received: 03/03/18 09:20 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/06/18 23:42	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/06/18 23:42	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:42	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	68-130		1	03/06/18 08:15	03/06/18 23:42	1868-53-7	
Toluene-d8 (S)	104	%	68-149		1	03/06/18 08:15	03/06/18 23:42	2037-26-5	
4-Bromofluorobenzene (S)	92	%	58-141		1	03/06/18 08:15	03/06/18 23:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.5**	%	0.10	0.10	1		03/09/18 15:50		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Sample: B19-1 8-9' **Lab ID: 40165409002** Collected: 02/28/18 09:30 Received: 03/03/18 09:20 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**102**	mg/kg	1.7	0.58	1	03/06/18 15:36	03/07/18 16:18	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/07/18 00:06	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/07/18 00:06	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/07/18 00:06	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/07/18 00:06	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	1634-04-4	W

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

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Sample: B19-1 8-9' **Lab ID: 40165409002** Collected: 02/28/18 09:30 Received: 03/03/18 09:20 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								
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/07/18 00:06	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/07/18 00:06	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/07/18 00:06	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:06	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	68-130		1	03/06/18 08:15	03/07/18 00:06	1868-53-7	
Toluene-d8 (S)	99	%	68-149		1	03/06/18 08:15	03/07/18 00:06	2037-26-5	
4-Bromofluorobenzene (S)	90	%	58-141		1	03/06/18 08:15	03/07/18 00:06	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**27.7**	%	0.10	0.10	1		03/08/18 16:54		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Sample: B19-2 1-2' **Lab ID: 40165409003** Collected: 02/28/18 10:05 Received: 03/03/18 09:20 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**10.1**	mg/kg	1.7	0.55	1	03/06/18 15:36	03/07/18 16:20	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/07/18 00:29	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/07/18 00:29	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/07/18 00:29	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/07/18 00:29	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	1634-04-4	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Sample: B19-2 1-2' **Lab ID: 40165409003** Collected: 02/28/18 10:05 Received: 03/03/18 09:20 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								
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/07/18 00:29	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/07/18 00:29	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/07/18 00:29	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/07/18 00:29	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	68-130		1	03/06/18 08:15	03/07/18 00:29	1868-53-7	
Toluene-d8 (S)	104	%	68-149		1	03/06/18 08:15	03/07/18 00:29	2037-26-5	
4-Bromofluorobenzene (S)	94	%	58-141		1	03/06/18 08:15	03/07/18 00:29	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.1**	%	0.10	0.10	1		03/09/18 15:50		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Sample: B19-2 14-15' **Lab ID: 40165409004** Collected: 02/28/18 10:30 Received: 03/03/18 09:20 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/06/18 21:24	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/06/18 21:24	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/06/18 21:24	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/06/18 21:24	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/06/18 21:24	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	100-42-5	W

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(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Sample: B19-2 14-15' **Lab ID: 40165409004** Collected: 02/28/18 10:30 Received: 03/03/18 09:20 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/06/18 21:24	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/06/18 21:24	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:24	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	68-130		1	03/06/18 08:15	03/06/18 21:24	1868-53-7	
Toluene-d8 (S)	102	%	68-149		1	03/06/18 08:15	03/06/18 21:24	2037-26-5	
4-Bromofluorobenzene (S)	90	%	58-141		1	03/06/18 08:15	03/06/18 21:24	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.7**	%	0.10	0.10	1		03/09/18 15:51		

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

QC Batch: 282555 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165409002, 40165409003

METHOD BLANK: 1655558 Matrix: Solid
Associated Lab Samples: 40165409002, 40165409003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	0.46J	1.3	03/07/18 15:18	

LABORATORY CONTROL SAMPLE: 1655559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	47.2	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655560 1655561

Parameter	Units	40165335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	14.0	55.4	55.5	59.0	65.3	81	92	75-125	10	20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

QC Batch: 282565 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40165409001, 40165409002, 40165409003, 40165409004

METHOD BLANK: 1655579 Matrix: Solid
Associated Lab Samples: 40165409001, 40165409002, 40165409003, 40165409004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	03/06/18 10:13	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/06/18 10:13	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	03/06/18 10:13	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/06/18 10:13	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/06/18 10:13	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/06/18 10:13	
1,1-Dichloropropene	ug/kg	<14.0	50.0	03/06/18 10:13	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	03/06/18 10:13	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	03/06/18 10:13	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	03/06/18 10:13	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	03/06/18 10:13	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	03/06/18 10:13	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	03/06/18 10:13	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	03/06/18 10:13	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/06/18 10:13	
1,2-Dichloropropane	ug/kg	<16.8	50.0	03/06/18 10:13	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	03/06/18 10:13	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	03/06/18 10:13	
1,3-Dichloropropane	ug/kg	<12.0	50.0	03/06/18 10:13	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	03/06/18 10:13	
2,2-Dichloropropane	ug/kg	<12.6	50.0	03/06/18 10:13	
2-Chlorotoluene	ug/kg	<15.8	50.0	03/06/18 10:13	
4-Chlorotoluene	ug/kg	<13.0	50.0	03/06/18 10:13	
Benzene	ug/kg	<9.2	20.0	03/06/18 10:13	
Bromobenzene	ug/kg	<20.6	50.0	03/06/18 10:13	
Bromochloromethane	ug/kg	<21.4	50.0	03/06/18 10:13	
Bromodichloromethane	ug/kg	<9.8	50.0	03/06/18 10:13	
Bromoform	ug/kg	<19.8	50.0	03/06/18 10:13	
Bromomethane	ug/kg	<69.9	250	03/06/18 10:13	
Carbon tetrachloride	ug/kg	<12.1	50.0	03/06/18 10:13	
Chlorobenzene	ug/kg	<14.8	50.0	03/06/18 10:13	
Chloroethane	ug/kg	<67.0	250	03/06/18 10:13	
Chloroform	ug/kg	<46.4	250	03/06/18 10:13	
Chloromethane	ug/kg	<20.4	50.0	03/06/18 10:13	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/06/18 10:13	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	03/06/18 10:13	
Dibromochloromethane	ug/kg	<17.9	50.0	03/06/18 10:13	
Dibromomethane	ug/kg	<19.3	50.0	03/06/18 10:13	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	03/06/18 10:13	
Diisopropyl ether	ug/kg	<17.7	50.0	03/06/18 10:13	
Ethylbenzene	ug/kg	<12.4	50.0	03/06/18 10:13	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

METHOD BLANK: 1655579 Matrix: Solid
Associated Lab Samples: 40165409001, 40165409002, 40165409003, 40165409004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	03/06/18 10:13	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	03/06/18 10:13	
m&p-Xylene	ug/kg	<34.4	100	03/06/18 10:13	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	03/06/18 10:13	
Methylene Chloride	ug/kg	<16.2	50.0	03/06/18 10:13	
n-Butylbenzene	ug/kg	<10.5	50.0	03/06/18 10:13	
n-Propylbenzene	ug/kg	<11.6	50.0	03/06/18 10:13	
Naphthalene	ug/kg	<40.0	250	03/06/18 10:13	
o-Xylene	ug/kg	<14.0	50.0	03/06/18 10:13	
p-Isopropyltoluene	ug/kg	<12.0	50.0	03/06/18 10:13	
sec-Butylbenzene	ug/kg	<11.9	50.0	03/06/18 10:13	
Styrene	ug/kg	<9.0	50.0	03/06/18 10:13	
tert-Butylbenzene	ug/kg	<9.5	50.0	03/06/18 10:13	
Tetrachloroethene	ug/kg	<12.9	50.0	03/06/18 10:13	
Toluene	ug/kg	<11.2	50.0	03/06/18 10:13	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/06/18 10:13	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	03/06/18 10:13	
Trichloroethene	ug/kg	<23.6	50.0	03/06/18 10:13	
Trichlorofluoromethane	ug/kg	<24.7	50.0	03/06/18 10:13	
Vinyl chloride	ug/kg	<21.1	50.0	03/06/18 10:13	
4-Bromofluorobenzene (S)	%	81	58-141	03/06/18 10:13	
Dibromofluoromethane (S)	%	90	68-130	03/06/18 10:13	
Toluene-d8 (S)	%	92	68-149	03/06/18 10:13	

LABORATORY CONTROL SAMPLE: 1655580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2440	98	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2410	97	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2460	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2470	99	63-124	
1,1-Dichloroethene	ug/kg	2500	2480	99	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	2120	85	78-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2580	103	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2400	96	70-130	
1,2-Dichloroethane	ug/kg	2500	2440	98	56-135	
1,2-Dichloropropane	ug/kg	2500	2510	100	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2350	94	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2290	92	70-130	
Benzene	ug/kg	2500	2380	95	66-130	
Bromodichloromethane	ug/kg	2500	2510	100	62-135	
Bromoform	ug/kg	2500	2200	88	68-130	
Bromomethane	ug/kg	2500	2120	85	29-137	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

LABORATORY CONTROL SAMPLE: 1655580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2460	98	57-130	
Chlorobenzene	ug/kg	2500	2500	100	70-130	
Chloroethane	ug/kg	2500	2350	94	36-144	
Chloroform	ug/kg	2500	2410	96	69-115	
Chloromethane	ug/kg	2500	2060	82	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2280	91	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2490	100	70-130	
Dibromochloromethane	ug/kg	2500	2310	92	70-130	
Dichlorodifluoromethane	ug/kg	2500	1370	55	10-99	
Ethylbenzene	ug/kg	2500	2430	97	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2430	97	70-130	
m&p-Xylene	ug/kg	5000	4900	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2390	96	63-134	
Methylene Chloride	ug/kg	2500	2500	100	56-123	
o-Xylene	ug/kg	2500	2470	99	70-130	
Styrene	ug/kg	2500	2540	102	70-130	
Tetrachloroethene	ug/kg	2500	2410	97	70-131	
Toluene	ug/kg	2500	2420	97	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2480	99	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2380	95	68-130	
Trichloroethene	ug/kg	2500	2390	96	70-130	
Trichlorofluoromethane	ug/kg	2500	2290	92	37-149	
Vinyl chloride	ug/kg	2500	2200	88	43-128	
4-Bromofluorobenzene (S)	%			86	58-141	
Dibromofluoromethane (S)	%			95	68-130	
Toluene-d8 (S)	%			89	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655581 1655582

Parameter	Units	40165409004 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	1380	1380	1190	1210	86	87	57-123	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1460	1360	106	99	73-135	7	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1420	1420	102	102	70-130	0	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1380	1340	100	97	63-124	3	20	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1140	1240	82	90	48-117	8	23	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1380	1380	1350	1270	97	92	78-145	6	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1380	1380	1290	1180	94	86	38-168	9	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1430	1430	103	103	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1470	1380	106	100	70-130	6	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1430	1380	103	100	56-145	3	20	
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1360	1440	99	104	77-123	5	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1400	1330	101	96	70-130	5	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1460	1360	105	99	70-130	6	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655581 1655582

Parameter	Units	40165409004 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	1380	1380	1330	1310	96	95	65-130	1	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1300	1320	94	96	59-141	2	20	
Bromoform	ug/kg	<25.0	1380	1380	1350	1290	98	94	59-141	4	20	
Bromomethane	ug/kg	<69.9	1380	1380	1200	1200	87	87	28-139	0	20	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1160	1170	84	85	50-130	1	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1340	1390	97	101	70-130	4	20	
Chloroethane	ug/kg	<67.0	1380	1380	1320	1280	95	93	36-144	3	20	
Chloroform	ug/kg	<46.4	1380	1380	1340	1320	97	96	68-122	1	20	
Chloromethane	ug/kg	<25.0	1380	1380	1220	1220	88	88	30-126	0	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1240	1250	89	90	63-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1290	1320	93	95	70-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1380	1380	1320	1370	96	99	66-136	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	906	940	65	68	10-99	4	33	
Ethylbenzene	ug/kg	<25.0	1380	1380	1240	1260	89	91	80-122	2	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1230	1290	89	93	70-130	5	20	
m&p-Xylene	ug/kg	<50.0	2770	2770	2640	2690	95	97	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1390	1300	101	94	63-134	7	20	
Methylene Chloride	ug/kg	<25.0	1380	1380	1390	1380	100	100	56-127	1	20	
o-Xylene	ug/kg	<25.0	1380	1380	1340	1360	97	98	70-130	1	20	
Styrene	ug/kg	<25.0	1380	1380	1340	1400	97	101	70-130	4	20	
Tetrachloroethene	ug/kg	<25.0	1380	1380	1230	1300	89	94	70-131	6	20	
Toluene	ug/kg	<25.0	1380	1380	1270	1290	92	93	80-120	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1280	1300	92	94	60-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1350	1350	97	97	68-130	0	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1240	1280	89	93	70-130	4	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1090	1140	79	82	37-149	5	24	
Vinyl chloride	ug/kg	<25.0	1380	1380	1180	1220	85	88	39-128	3	20	
4-Bromofluorobenzene (S)	%						91	90	58-141			
Dibromofluoromethane (S)	%						104	102	68-130			
Toluene-d8 (S)	%						93	96	68-149			

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(920)469-2436

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

QC Batch: 282852
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 40165409002

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 1656888

Parameter	Units	40165409002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.7	28.0	1	10	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

QC Batch: 282937 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165409001, 40165409003, 40165409004

SAMPLE DUPLICATE: 1657416

Parameter	Units	40165410003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	19.6	6	10	

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 SITE 19
Pace Project No.: 40165409

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165409002	**B19-1 8-9'**	EPA 3050	282555	EPA 6010	282672
40165409003	**B19-2 1-2'**	EPA 3050	282555	EPA 6010	282672
40165409001	**B19-1 2-3'**	EPA 5035/5030B	282565	EPA 8260	282566
40165409002	**B19-1 8-9'**	EPA 5035/5030B	282565	EPA 8260	282566
40165409003	**B19-2 1-2'**	EPA 5035/5030B	282565	EPA 8260	282566
40165409004	**B19-2 14-15'**	EPA 5035/5030B	282565	EPA 8260	282566
40165409001	**B19-1 2-3'**	ASTM D2974-87	282937		
40165409002	**B19-1 8-9'**	ASTM D2974-87	282852		
40165409003	**B19-2 1-2'**	ASTM D2974-87	282937		
40165409004	**B19-2 14-15'**	ASTM D2974-87	282937		

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(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagener
Phone:	715-342-3038
Project Number:	60558672
Project Name:	Wis 67 Phase 2.5 - Site 19
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	
PO #:	Regulatory Program:

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SSM

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

Page 1 of

40165409

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

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

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	Lead / Moisture	Moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						F	A	A				
001	B19-1 2-3'	2/28/18	9:20	S			✓		✓			
002	B19-1 8-9'	2/28/18	9:30	S			✓	✓				
003	B19-2 1-2'	2/28/18	10:05	S			✓	✓				
004	B19-2 14-15'	2/28/18	10:30	S			✓		✓			

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:
Dan Barton	3/2/18 10:20		
UPS	3/3/18 0920	Becky Schramm Pace	3/3/18 0920

PACE Project No.: 40165409

Receipt Temp = 2.01 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: AECOM

Project # 40165409

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *						
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																			—				—										2.5 / 5 / 10
002																			—				—										2.5 / 5 / 10
003																			—				—										2.5 / 5 / 10
004																			—				—										2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40165409

40165409

Client Name: AECOM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☑ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1ZA478E94955792 79

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: RO1

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 3/3/18 Initials: KG

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

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 MS/MD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CH **Date:** 3/5/18

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

March 13, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165413001	**B20-1 2-3'**	Solid	02/28/18 11:55	03/03/18 09:20
40165413002	**B20-1 18-19'**	Solid	02/28/18 12:10	03/03/18 09:20
40165413003	**B20-2 3-4'**	Solid	02/28/18 11:10	03/03/18 09:20
40165413004	**B20-2 19-20'**	Solid	02/28/18 11:25	03/03/18 09:20
40165413005	**B20-3 1-2'**	Solid	02/28/18 12:30	03/03/18 09:20
40165413006	**B20-3 19-20'**	Solid	02/28/18 12:35	03/03/18 09:20
40165413007	**B20-4 3-4'**	Solid	02/28/18 13:00	03/03/18 09:20
40165413008	**B20-4 9-10'**	Solid	02/28/18 13:10	03/03/18 09:20
40165413009	**B20-3**	Water	03/01/18 12:20	03/03/18 09:20

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165413001	**B20-1 2-3'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165413002	**B20-1 18-19'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165413003	**B20-2 3-4'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165413004	**B20-2 19-20'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165413005	**B20-3 1-2'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165413006	**B20-3 19-20'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165413007	**B20-4 3-4'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165413008	**B20-4 9-10'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165413009	**B20-3**	WI MOD GRO	ALD	10	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165413001	**B20-1 2-3'**					
EPA 6010	Lead	11.6	mg/kg	1.6	03/09/18 19:32	
ASTM D2974-87	Percent Moisture	20.5	%	0.10	03/09/18 15:51	
40165413002	**B20-1 18-19'**					
ASTM D2974-87	Percent Moisture	4.6	%	0.10	03/09/18 15:51	
40165413003	**B20-2 3-4'**					
EPA 6010	Lead	0.95J	mg/kg	1.3	03/09/18 19:34	
ASTM D2974-87	Percent Moisture	11.7	%	0.10	03/09/18 16:20	
40165413004	**B20-2 19-20'**					
ASTM D2974-87	Percent Moisture	7.1	%	0.10	03/09/18 16:21	
40165413005	**B20-3 1-2'**					
ASTM D2974-87	Percent Moisture	13.2	%	0.10	03/09/18 16:21	
40165413006	**B20-3 19-20'**					
WI MOD GRO	Ethylbenzene	930	ug/kg	128	03/07/18 15:35	
WI MOD GRO	Naphthalene	258	ug/kg	128	03/07/18 15:35	
WI MOD GRO	Toluene	102J	ug/kg	128	03/07/18 15:35	
WI MOD GRO	1,2,4-Trimethylbenzene	266	ug/kg	128	03/07/18 15:35	
WI MOD GRO	1,3,5-Trimethylbenzene	2120	ug/kg	128	03/07/18 15:35	
WI MOD GRO	m&p-Xylene	1930	ug/kg	257	03/07/18 15:35	
EPA 6010	Lead	4.2	mg/kg	1.4	03/09/18 19:36	
ASTM D2974-87	Percent Moisture	6.5	%	0.10	03/09/18 16:21	
40165413007	**B20-4 3-4'**					
EPA 6010	Lead	6.2	mg/kg	1.5	03/09/18 19:39	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	03/09/18 16:21	
40165413008	**B20-4 9-10'**					
ASTM D2974-87	Percent Moisture	8.5	%	0.10	03/09/18 16:21	
40165413009	**B20-3**					
WI MOD GRO	Ethylbenzene	14.4	ug/L	2.0	03/06/18 16:07	
WI MOD GRO	Naphthalene	7.1	ug/L	2.0	03/06/18 16:07	
WI MOD GRO	Toluene	1.3J	ug/L	2.0	03/06/18 16:07	
WI MOD GRO	1,2,4-Trimethylbenzene	16.5	ug/L	2.0	03/06/18 16:07	
WI MOD GRO	1,3,5-Trimethylbenzene	32.0	ug/L	2.0	03/06/18 16:07	
WI MOD GRO	m&p-Xylene	26.9	ug/L	4.0	03/06/18 16:07	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
9 samples were analyzed for WI MOD GRO. 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 TPH GRO/PVOC WI ext. 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.

Additional Comments:

Analyte Comments:

QC Batch: 282476

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- B20-3 (Lab ID: 40165413009)
  - a,a,a-Trifluorotoluene (S)

QC Batch: 282604

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- B20-3 19-20' (Lab ID: 40165413006)
  - a,a,a-Trifluorotoluene (S)

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
4 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.

QC Batch: 282781

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40165404001

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

- MS (Lab ID: 1656576)
  - Lead
- MSD (Lab ID: 1656577)
  - Lead

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-1 2-3' **Lab ID: 40165413001** Collected: 02/28/18 11:55 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:27	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:27	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:27	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:27	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:27	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:27	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:27	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/07/18 06:50	03/07/18 10:27	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:27	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	03/07/18 06:50	03/07/18 10:27	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**11.6**	mg/kg	1.6	0.54	1	03/09/18 08:20	03/09/18 19:32	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.5**	%	0.10	0.10	1		03/09/18 15:51		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-1 18-19' **Lab ID: 40165413002** Collected: 02/28/18 12:10 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:52	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:52	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:52	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:52	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:52	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:52	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:52	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/07/18 06:50	03/07/18 10:52	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 10:52	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	03/07/18 06:50	03/07/18 10:52	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.6**	%	0.10	0.10	1		03/09/18 15:51		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-2 3-4' **Lab ID: 40165413003** Collected: 02/28/18 11:10 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:18	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:18	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:18	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:18	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:18	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:18	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:18	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/07/18 06:50	03/07/18 11:18	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:18	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	03/07/18 06:50	03/07/18 11:18	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.95J**	mg/kg	1.3	0.44	1	03/09/18 08:20	03/09/18 19:34	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.7**	%	0.10	0.10	1		03/09/18 16:20		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-2 19-20' **Lab ID: 40165413004** Collected: 02/28/18 11:25 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:44	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:44	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:44	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:44	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:44	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:44	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:44	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/07/18 06:50	03/07/18 11:44	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 11:44	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	03/07/18 06:50	03/07/18 11:44	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.1**	%	0.10	0.10	1		03/09/18 16:21		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-3 1-2' **Lab ID: 40165413005** Collected: 02/28/18 12:30 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 12:10	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 12:10	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 12:10	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 12:10	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 12:10	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 12:10	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 12:10	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/07/18 06:50	03/07/18 12:10	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/07/18 06:50	03/07/18 12:10	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	03/07/18 06:50	03/07/18 12:10	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.2**	%	0.10	0.10	1		03/09/18 16:21		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-3 19-20' **Lab ID: 40165413006** Collected: 02/28/18 12:35 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<50.0**	ug/kg	120	50.0	2	03/07/18 06:50	03/07/18 15:35	71-43-2	W
Ethylbenzene	**930**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	100-41-4	
Methyl-tert-butyl ether	**<50.0**	ug/kg	120	50.0	2	03/07/18 06:50	03/07/18 15:35	1634-04-4	W
Naphthalene	**258**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	91-20-3	
Toluene	**102J**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	108-88-3	
1,2,4-Trimethylbenzene	**266**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	95-63-6	
1,3,5-Trimethylbenzene	**2120**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	108-67-8	
m&p-Xylene	**1930**	ug/kg	257	107	2	03/07/18 06:50	03/07/18 15:35	179601-23-1	
o-Xylene	**<50.0**	ug/kg	120	50.0	2	03/07/18 06:50	03/07/18 15:35	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		2	03/07/18 06:50	03/07/18 15:35	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**4.2**	mg/kg	1.4	0.45	1	03/09/18 08:20	03/09/18 19:36	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.5**	%	0.10	0.10	1		03/09/18 16:21		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-4 3-4' **Lab ID: 40165413007** Collected: 02/28/18 13:00 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 10:38	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 10:38	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 10:38	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 10:38	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 10:38	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 10:38	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 10:38	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/07/18 07:30	03/07/18 10:38	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 10:38	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	03/07/18 07:30	03/07/18 10:38	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**6.2**	mg/kg	1.5	0.50	1	03/09/18 08:20	03/09/18 19:39	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.7**	%	0.10	0.10	1		03/09/18 16:21		

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-4 9-10' **Lab ID: 40165413008** Collected: 02/28/18 13:10 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:04	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:04	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:04	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:04	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:04	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:04	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:04	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/07/18 07:30	03/07/18 11:04	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:04	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1	03/07/18 07:30	03/07/18 11:04	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.5**	%	0.10	0.10	1		03/09/18 16:21		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-3 **Lab ID: 40165413009** Collected: 03/01/18 12:20 Received: 03/03/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.79**	ug/L	2.0	0.79	2		03/06/18 16:07	71-43-2	
Ethylbenzene	**14.4**	ug/L	2.0	0.79	2		03/06/18 16:07	100-41-4	
Methyl-tert-butyl ether	**<0.97**	ug/L	2.0	0.97	2		03/06/18 16:07	1634-04-4	
Naphthalene	**7.1**	ug/L	2.0	0.85	2		03/06/18 16:07	91-20-3	
Toluene	**1.3J**	ug/L	2.0	0.78	2		03/06/18 16:07	108-88-3	
1,2,4-Trimethylbenzene	**16.5**	ug/L	2.0	0.84	2		03/06/18 16:07	95-63-6	
1,3,5-Trimethylbenzene	**32.0**	ug/L	2.0	0.83	2		03/06/18 16:07	108-67-8	
m&p-Xylene	**26.9**	ug/L	4.0	1.6	2		03/06/18 16:07	179601-23-1	
o-Xylene	**<0.90**	ug/L	2.0	0.90	2		03/06/18 16:07	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		2		03/06/18 16:07	98-08-8	D3

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

QC Batch: 282604 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40165413001, 40165413002, 40165413003, 40165413004, 40165413005, 40165413006

METHOD BLANK: 1655675 Matrix: Solid
Associated Lab Samples: 40165413001, 40165413002, 40165413003, 40165413004, 40165413005, 40165413006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:44	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:44	
Benzene	ug/kg	<25.0	50.0	03/07/18 08:44	
Ethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:44	
m&p-Xylene	ug/kg	<50.0	100	03/07/18 08:44	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	03/07/18 08:44	
Naphthalene	ug/kg	<25.0	50.0	03/07/18 08:44	
o-Xylene	ug/kg	<25.0	50.0	03/07/18 08:44	
Toluene	ug/kg	<25.0	50.0	03/07/18 08:44	
a,a,a-Trifluorotoluene (S)	%	102	80-120	03/07/18 08:44	

LABORATORY CONTROL SAMPLE & LCSD: 1655676 1655677

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1070	1060	107	106	80-120	0	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1030	1030	103	103	80-120	0	20	
Benzene	ug/kg	1000	999	1000	100	100	80-120	0	20	
Ethylbenzene	ug/kg	1000	1050	1050	105	105	80-120	0	20	
m&p-Xylene	ug/kg	2000	2080	2080	104	104	80-120	0	20	
Methyl-tert-butyl ether	ug/kg	1000	882	943	88	94	80-120	7	20	
Naphthalene	ug/kg	1000	928	1020	93	102	80-120	9	20	
o-Xylene	ug/kg	1000	1030	1030	103	103	80-120	0	20	
Toluene	ug/kg	1000	1020	1040	102	104	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				100	102	80-120			

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

QC Batch: 282610 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40165413007, 40165413008

METHOD BLANK: 1655689 Matrix: Solid
Associated Lab Samples: 40165413007, 40165413008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:55	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:55	
Benzene	ug/kg	<25.0	50.0	03/07/18 08:55	
Ethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:55	
m&p-Xylene	ug/kg	<50.0	100	03/07/18 08:55	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	03/07/18 08:55	
Naphthalene	ug/kg	<25.0	50.0	03/07/18 08:55	
o-Xylene	ug/kg	<25.0	50.0	03/07/18 08:55	
Toluene	ug/kg	<25.0	50.0	03/07/18 08:55	
a,a,a-Trifluorotoluene (S)	%	99	80-120	03/07/18 08:55	

LABORATORY CONTROL SAMPLE & LCSD: 1655690 1655691

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1090	1070	109	107	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1070	1050	107	105	80-120	2	20	
Benzene	ug/kg	1000	1040	1010	104	101	80-120	2	20	
Ethylbenzene	ug/kg	1000	1060	1030	106	103	80-120	2	20	
m&p-Xylene	ug/kg	2000	2080	2070	104	103	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	992	1000	99	100	80-120	1	20	
Naphthalene	ug/kg	1000	952	992	95	99	80-120	4	20	
o-Xylene	ug/kg	1000	1040	1030	104	103	80-120	0	20	
Toluene	ug/kg	1000	1030	1010	103	101	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				97	98	80-120			

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

QC Batch: 282476 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40165413009

METHOD BLANK: 1655219 Matrix: Water
Associated Lab Samples: 40165413009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/06/18 08:49	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/06/18 08:49	
Benzene	ug/L	<0.40	1.0	03/06/18 08:49	
Ethylbenzene	ug/L	<0.39	1.0	03/06/18 08:49	
m&p-Xylene	ug/L	<0.80	2.0	03/06/18 08:49	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/06/18 08:49	
Naphthalene	ug/L	<0.42	1.0	03/06/18 08:49	
o-Xylene	ug/L	<0.45	1.0	03/06/18 08:49	
Toluene	ug/L	<0.39	1.0	03/06/18 08:49	
a,a,a-Trifluorotoluene (S)	%	103	80-120	03/06/18 08:49	

LABORATORY CONTROL SAMPLE & LCSD: 1655220 1655221

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.7	21.8	109	109	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.9	21.0	105	105	80-120	0	20	
Benzene	ug/L	20	20.7	20.7	104	104	80-120	0	20	
Ethylbenzene	ug/L	20	21.3	21.4	107	107	80-120	0	20	
m&p-Xylene	ug/L	40	42.0	42.4	105	106	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	19.7	20.5	98	102	80-120	4	20	
Naphthalene	ug/L	20	21.3	22.8	107	114	80-120	7	20	
o-Xylene	ug/L	20	21.3	21.4	106	107	80-120	1	20	
Toluene	ug/L	20	21.0	21.0	105	105	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	99	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655472 1655473

Parameter	Units	40165353013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	21.3	21.7	107	109	11-200	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	20.0	20.5	100	103	54-142	3	20	
Benzene	ug/L	0.70J	20	20	23.5	23.2	114	112	66-140	1	20	
Ethylbenzene	ug/L	<0.39	20	20	23.3	23.5	117	117	66-143	1	20	
m&p-Xylene	ug/L	<0.80	40	40	44.3	45.1	111	113	60-141	2	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	20.5	20.3	102	101	70-129	1	20	
Naphthalene	ug/L	0.84J	20	20	22.0	23.0	106	111	64-129	4	20	
o-Xylene	ug/L	<0.45	20	20	22.1	22.5	111	113	68-132	2	20	
Toluene	ug/L	<0.39	20	20	23.2	23.2	116	116	76-130	0	20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655472 1655473

Parameter	Units	40165353013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
a,a,a-Trifluorotoluene (S)	%						102	101	80-120			

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

QC Batch: 282781 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165413001, 40165413003, 40165413006, 40165413007

METHOD BLANK: 1656574 Matrix: Solid
Associated Lab Samples: 40165413001, 40165413003, 40165413006, 40165413007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.3	03/09/18 19:02	

LABORATORY CONTROL SAMPLE: 1656575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1656576 1656577

Parameter	Units	40165404001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	16.3	53.6	53.6	56.1	51.7	74	66	75-125	8	20	M0

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

QC Batch: 282937
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165413001, 40165413002

SAMPLE DUPLICATE: 1657416

Parameter	Units	40165410003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	19.6	6	10	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

QC Batch: 282944 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165413003, 40165413004, 40165413005, 40165413006, 40165413007, 40165413008

SAMPLE DUPLICATE: 1657458

Parameter	Units	40165487001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.3	20.4	0	10	

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165413001	**B20-1 2-3'**	TPH GRO/PVOC WI ext.	282604	WI MOD GRO	282605
40165413002	**B20-1 18-19'**	TPH GRO/PVOC WI ext.	282604	WI MOD GRO	282605
40165413003	**B20-2 3-4'**	TPH GRO/PVOC WI ext.	282604	WI MOD GRO	282605
40165413004	**B20-2 19-20'**	TPH GRO/PVOC WI ext.	282604	WI MOD GRO	282605
40165413005	**B20-3 1-2'**	TPH GRO/PVOC WI ext.	282604	WI MOD GRO	282605
40165413006	**B20-3 19-20'**	TPH GRO/PVOC WI ext.	282604	WI MOD GRO	282605
40165413007	**B20-4 3-4'**	TPH GRO/PVOC WI ext.	282610	WI MOD GRO	282611
40165413008	**B20-4 9-10'**	TPH GRO/PVOC WI ext.	282610	WI MOD GRO	282611
40165413009	**B20-3**	WI MOD GRO	282476		
40165413001	**B20-1 2-3'**	EPA 3050	282781	EPA 6010	282941
40165413003	**B20-2 3-4'**	EPA 3050	282781	EPA 6010	282941
40165413006	**B20-3 19-20'**	EPA 3050	282781	EPA 6010	282941
40165413007	**B20-4 3-4'**	EPA 3050	282781	EPA 6010	282941
40165413001	**B20-1 2-3'**	ASTM D2974-87	282937		
40165413002	**B20-1 18-19'**	ASTM D2974-87	282937		
40165413003	**B20-2 3-4'**	ASTM D2974-87	282944		
40165413004	**B20-2 19-20'**	ASTM D2974-87	282944		
40165413005	**B20-3 1-2'**	ASTM D2974-87	282944		
40165413006	**B20-3 19-20'**	ASTM D2974-87	282944		
40165413007	**B20-4 3-4'**	ASTM D2974-87	282944		
40165413008	**B20-4 9-10'**	ASTM D2974-87	282944		

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MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

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GSM

40165413

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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagoner
Phone:	715-342-3058
Project Number:	60558672
Project Name:	WIS 67 Phase 2.5 site 20
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	Dan Barton
PO #:	Regulatory Program:

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

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

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

Matrix Codes

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	Pick Letter	F	A	A	B	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Analyses Requested		PVOC & Naph	Lead/Moisture	Moisture	PVOC & Naph			
001	B20-1 2-3'	2/28/18	11:55	S			✓	✓					
002	B20-1 18-19'	2/28/18	12:10	S			✓		✓				
003	B20-2 3-4'	2/28/18	11:10	S			✓	✓					
004	B20-2 19-20'	2/28/18	11:25	S			✓	WW DUP	✓				
005	B20-3 1-2'	2/28/18	12:30	S			✓		✓				
006	B20-3 19-20'	2/28/18	12:35	S			✓	✓					
007	B20-4 3-4'	2/28/18	13:00	S			✓	✓					
008	B20-4 9-10'	2/28/18	13:10	S			✓		✓				
009	B20-3	3/1/18	12:20	W			✓ DUP			✓			

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:
Dan Barton	3/2/18 10:20		
UPS	3/3/18 0920	Katie Lehmann Pace	3/3/18 0920

PACE Project No.: 40165413

Receipt Temp = 2.01 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: AECOM

Project # 40165413

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

	Glass							Plastic							Vials						Jars			General								
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																		3									2						2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm): ☒Yes □No □N/A ***If yes look in headspace column**

0354 3/5/18

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 31Jan2018
	Document No.: **F-GB-C-031-rev.06**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40165413

40165413

Client Name: AECOM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☑ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1ZA478E94195579279

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R01

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3/3/18
Initials: KF

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 MS/MSD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S+W		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 3/5/18

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

March 14, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165414001	**B21-1 3-4'**	Solid	03/01/18 10:20	03/03/18 09:20
40165414002	**B21-1 14-15'**	Solid	03/01/18 10:35	03/03/18 09:20
40165414003	**B21-2 1-2'**	Solid	03/01/18 11:00	03/03/18 09:20
40165414004	**B21-2 15-16'**	Solid	03/01/18 11:15	03/03/18 09:20

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165414001	**B21-1 3-4'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165414002	**B21-1 14-15'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165414003	**B21-2 1-2'**	WI MOD GRO	ALD	10	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40165414004	**B21-2 15-16'**	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	DXS	1	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165414001	**B21-1 3-4'**					
EPA 6010	Lead	2.2	mg/kg	1.2	03/12/18 18:01	
ASTM D2974-87	Percent Moisture	4.0	%	0.10	03/09/18 16:21	
40165414002	**B21-1 14-15'**					
ASTM D2974-87	Percent Moisture	6.1	%	0.10	03/09/18 16:21	
40165414003	**B21-2 1-2'**					
EPA 6010	Lead	8.9	mg/kg	1.4	03/12/18 18:03	
ASTM D2974-87	Percent Moisture	10.4	%	0.10	03/09/18 16:21	
40165414004	**B21-2 15-16'**					
ASTM D2974-87	Percent Moisture	7.6	%	0.10	03/09/18 16:21	

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
4 samples were analyzed for WI MOD GRO. 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 TPH GRO/PVOC WI ext. 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
2 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.

QC Batch: 282925

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40165618001

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

- MS (Lab ID: 1657281)
  - Lead
- MSD (Lab ID: 1657282)
  - Lead

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Sample: B21-1 3-4' **Lab ID: 40165414001** Collected: 03/01/18 10:20 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:30	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:30	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:30	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:30	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:30	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:30	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:30	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/07/18 07:30	03/07/18 11:30	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:30	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1	03/07/18 07:30	03/07/18 11:30	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**2.2**	mg/kg	1.2	0.41	1	03/12/18 09:17	03/12/18 18:01	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.0**	%	0.10	0.10	1		03/09/18 16:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Sample: B21-1 14-15' **Lab ID: 40165414002** Collected: 03/01/18 10:35 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:56	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:56	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:56	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:56	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:56	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:56	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:56	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/07/18 07:30	03/07/18 11:56	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 11:56	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1	03/07/18 07:30	03/07/18 11:56	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.1**	%	0.10	0.10	1		03/09/18 16:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Sample: B21-2 1-2' **Lab ID: 40165414003** Collected: 03/01/18 11:00 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:22	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:22	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:22	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:22	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:22	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:22	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:22	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/07/18 07:30	03/07/18 12:22	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:22	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/07/18 07:30	03/07/18 12:22	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**8.9**	mg/kg	1.4	0.47	1	03/12/18 09:17	03/12/18 18:03	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.4**	%	0.10	0.10	1		03/09/18 16:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Sample: B21-2 15-16' **Lab ID: 40165414004** Collected: 03/01/18 11:15 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:48	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:48	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:48	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:48	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:48	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:48	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:48	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	03/07/18 07:30	03/07/18 12:48	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	03/07/18 07:30	03/07/18 12:48	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/07/18 07:30	03/07/18 12:48	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.6**	%	0.10	0.10	1		03/09/18 16:21		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

QC Batch: 282610 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40165414001, 40165414002, 40165414003, 40165414004

METHOD BLANK: 1655689 Matrix: Solid
Associated Lab Samples: 40165414001, 40165414002, 40165414003, 40165414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:55	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:55	
Benzene	ug/kg	<25.0	50.0	03/07/18 08:55	
Ethylbenzene	ug/kg	<25.0	50.0	03/07/18 08:55	
m&p-Xylene	ug/kg	<50.0	100	03/07/18 08:55	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	03/07/18 08:55	
Naphthalene	ug/kg	<25.0	50.0	03/07/18 08:55	
o-Xylene	ug/kg	<25.0	50.0	03/07/18 08:55	
Toluene	ug/kg	<25.0	50.0	03/07/18 08:55	
a,a,a-Trifluorotoluene (S)	%	99	80-120	03/07/18 08:55	

LABORATORY CONTROL SAMPLE & LCSD: 1655690 1655691

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1090	1070	109	107	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1070	1050	107	105	80-120	2	20	
Benzene	ug/kg	1000	1040	1010	104	101	80-120	2	20	
Ethylbenzene	ug/kg	1000	1060	1030	106	103	80-120	2	20	
m&p-Xylene	ug/kg	2000	2080	2070	104	103	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	992	1000	99	100	80-120	1	20	
Naphthalene	ug/kg	1000	952	992	95	99	80-120	4	20	
o-Xylene	ug/kg	1000	1040	1030	104	103	80-120	0	20	
Toluene	ug/kg	1000	1030	1010	103	101	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				97	98	80-120			

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

QC Batch: 282925 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165414001, 40165414003

METHOD BLANK: 1657279 Matrix: Solid
Associated Lab Samples: 40165414001, 40165414003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.3	03/12/18 17:39	

LABORATORY CONTROL SAMPLE: 1657280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	50.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1657281 1657282

Parameter	Units	40165618001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	20.5	60.6	60.7	63.4	65.7	71	74	75-125	4	20	M0

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

QC Batch: 282944 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165414001, 40165414002, 40165414003, 40165414004

SAMPLE DUPLICATE: 1657458

Parameter	Units	40165487001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.3	20.4	0	10	

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 SITE 21
Pace Project No.: 40165414

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165414001	**B21-1 3-4'**	TPH GRO/PVOC WI ext.	282610	WI MOD GRO	282611
40165414002	**B21-1 14-15'**	TPH GRO/PVOC WI ext.	282610	WI MOD GRO	282611
40165414003	**B21-2 1-2'**	TPH GRO/PVOC WI ext.	282610	WI MOD GRO	282611
40165414004	**B21-2 15-16'**	TPH GRO/PVOC WI ext.	282610	WI MOD GRO	282611
40165414001	**B21-1 3-4'**	EPA 3050	282925	EPA 6010	283088
40165414003	**B21-2 1-2'**	EPA 3050	282925	EPA 6010	283088
40165414001	**B21-1 3-4'**	ASTM D2974-87	282944		
40165414002	**B21-1 14-15'**	ASTM D2974-87	282944		
40165414003	**B21-2 1-2'**	ASTM D2974-87	282944		
40165414004	**B21-2 15-16'**	ASTM D2974-87	282944		

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

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SSM

40165414

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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagner
Phone:	715-342-3038
Project Number:	60558672
Project Name:	WB 67 Phase 2 Site 21
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	Dan Barton
PO #:	Regulatory Program:

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

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOCs + Naph	Lead (moisture)	Moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						F	A	A				
001	~~001~~ ~~Ref 3/3/18~~ B21-1 3-4'	3/1/18	10:20	S		✓	✓					
002	B21-1 14-15'	3/1/18	10:35	S		✓		✓				
003	B21-2 ~~DUP 2-3'~~ 1-2'	3/1/18	~~11:30~~ 11:00	S		✓	✓					
004	B21-2 15-16'	3/1/18	11:15 DUP	S		✓		✓				

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:
Dan Barton	3/2/18 16:20		
UPS	3/3/18 0920	Kyle Johnson Pace	3/3/18 0920

PACE Project No. 40165414
Receipt Temp = 2.01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

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Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: AECOM

Project # 40165414

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																			—				—										2.5 / 5 / 10
002																			—				—										2.5 / 5 / 10
003																			—				—										2.5 / 5 / 10
004																			—				—										2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☑N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 31Jan2018
	Document No.: **F-GB-C-031-rev.06**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40165414**

40165414

Client Name: AECOM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☑ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1ZA478E94195579279

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R01

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3/3/18
Initials: KJS

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 MS/MSD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CA **Date:** 3/5/18

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

March 12, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Green Bay Certification IDs

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165401001	**B25-1 1-2'**	Solid	03/01/18 09:00	03/03/18 09:20
40165401002	**B25-1 12-13'**	Solid	03/01/18 09:15	03/03/18 09:20
40165401003	**B25-2 3-4'**	Solid	03/01/18 08:40	03/03/18 09:20
40165401004	**B25-2 13-14'**	Solid	03/01/18 08:55	03/03/18 09:20
40165401005	**TRIP BLANK**	Solid	03/01/18 00:00	03/03/18 09:20

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165401001	**B25-1 1-2'**	EPA 6010	JLD	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SSM	1	PASI-G
40165401002	**B25-1 12-13'**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SSM	1	PASI-G
40165401003	**B25-2 3-4'**	EPA 6010	JLD	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SSM	1	PASI-G
40165401004	**B25-2 13-14'**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SSM	1	PASI-G
40165401005	**TRIP BLANK**	EPA 8260	SMT	64	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165401001	**B25-1 1-2'**					
EPA 6010	Lead	25.4	mg/kg	1.4	03/07/18 15:54	
ASTM D2974-87	Percent Moisture	16.0	%	0.10	03/09/18 16:09	
40165401002	**B25-1 12-13'**					
ASTM D2974-87	Percent Moisture	5.8	%	0.10	03/09/18 16:09	
40165401003	**B25-2 3-4'**					
EPA 6010	Lead	16.3	mg/kg	1.6	03/07/18 15:56	
ASTM D2974-87	Percent Moisture	19.2	%	0.10	03/09/18 16:09	
40165401004	**B25-2 13-14'**					
ASTM D2974-87	Percent Moisture	6.1	%	0.10	03/09/18 16:09	

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

General Information:
2 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:

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(920)469-2436

PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

General Information:
5 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:

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: B25-1 1-2' **Lab ID: 40165401001** Collected: 03/01/18 09:00 Received: 03/03/18 09:20 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**25.4**	mg/kg	1.4	0.47	1	03/06/18 15:36	03/07/18 15:54	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/06/18 21:47	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/06/18 21:47	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/06/18 21:47	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/06/18 21:47	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	1634-04-4	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: B25-1 1-2' **Lab ID: 40165401001** Collected: 03/01/18 09:00 Received: 03/03/18 09:20 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								
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/06/18 21:47	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/06/18 21:47	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/06/18 21:47	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:47	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	68-130		1	03/06/18 08:15	03/06/18 21:47	1868-53-7	
Toluene-d8 (S)	106	%	68-149		1	03/06/18 08:15	03/06/18 21:47	2037-26-5	
4-Bromofluorobenzene (S)	95	%	58-141		1	03/06/18 08:15	03/06/18 21:47	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.0**	%	0.10	0.10	1		03/09/18 16:09		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: B25-1 12-13' **Lab ID: 40165401002** Collected: 03/01/18 09:15 Received: 03/03/18 09:20 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/06/18 22:10	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/06/18 22:10	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/06/18 22:10	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/06/18 22:10	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/06/18 22:10	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	100-42-5	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: B25-1 12-13' **Lab ID: 40165401002** Collected: 03/01/18 09:15 Received: 03/03/18 09:20 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/06/18 22:10	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/06/18 22:10	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:10	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	68-130		1	03/06/18 08:15	03/06/18 22:10	1868-53-7	
Toluene-d8 (S)	98	%	68-149		1	03/06/18 08:15	03/06/18 22:10	2037-26-5	
4-Bromofluorobenzene (S)	85	%	58-141		1	03/06/18 08:15	03/06/18 22:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.8**	%	0.10	0.10	1		03/09/18 16:09		

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: B25-2 3-4' **Lab ID: 40165401003** Collected: 03/01/18 08:40 Received: 03/03/18 09:20 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**16.3**	mg/kg	1.6	0.52	1	03/06/18 15:36	03/07/18 15:56	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/06/18 22:33	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/06/18 22:33	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/06/18 22:33	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/06/18 22:33	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	1634-04-4	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: B25-2 3-4' **Lab ID: 40165401003** Collected: 03/01/18 08:40 Received: 03/03/18 09:20 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								
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/06/18 22:33	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/06/18 22:33	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/06/18 22:33	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:33	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	68-130		1	03/06/18 08:15	03/06/18 22:33	1868-53-7	
Toluene-d8 (S)	104	%	68-149		1	03/06/18 08:15	03/06/18 22:33	2037-26-5	
4-Bromofluorobenzene (S)	94	%	58-141		1	03/06/18 08:15	03/06/18 22:33	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.2**	%	0.10	0.10	1		03/09/18 16:09		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: B25-2 13-14' **Lab ID: 40165401004** Collected: 03/01/18 08:55 Received: 03/03/18 09:20 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/06/18 22:56	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/06/18 22:56	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/06/18 22:56	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/06/18 22:56	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/06/18 22:56	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	100-42-5	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: B25-2 13-14' **Lab ID: 40165401004** Collected: 03/01/18 08:55 Received: 03/03/18 09:20 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/06/18 22:56	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/06/18 22:56	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 22:56	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	68-130		1	03/06/18 08:15	03/06/18 22:56	1868-53-7	
Toluene-d8 (S)	102	%	68-149		1	03/06/18 08:15	03/06/18 22:56	2037-26-5	
4-Bromofluorobenzene (S)	93	%	58-141		1	03/06/18 08:15	03/06/18 22:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.1**	%	0.10	0.10	1		03/09/18 16:09		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: TRIP BLANK **Lab ID: 40165401005** Collected: 03/01/18 00:00 Received: 03/03/18 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/06/18 21:00	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/06/18 21:00	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/06/18 21:00	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/06/18 21:00	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/06/18 21:00	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	100-42-5	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Sample: TRIP BLANK **Lab ID: 40165401005** Collected: 03/01/18 00:00 Received: 03/03/18 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/06/18 21:00	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/06/18 21:00	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 21:00	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	92	%	68-130		1	03/06/18 08:15	03/06/18 21:00	1868-53-7	
Toluene-d8 (S)	87	%	68-149		1	03/06/18 08:15	03/06/18 21:00	2037-26-5	
4-Bromofluorobenzene (S)	86	%	58-141		1	03/06/18 08:15	03/06/18 21:00	460-00-4	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

QC Batch: 282555 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165401001, 40165401003

METHOD BLANK: 1655558 Matrix: Solid
Associated Lab Samples: 40165401001, 40165401003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	0.46J	1.3	03/07/18 15:18	

LABORATORY CONTROL SAMPLE: 1655559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	47.2	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655560 1655561

Parameter	Units	40165335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	14.0	55.4	55.5	59.0	65.3	81	92	75-125	10	20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

QC Batch: 282565 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40165401001, 40165401002, 40165401003, 40165401004, 40165401005

METHOD BLANK: 1655579 Matrix: Solid
Associated Lab Samples: 40165401001, 40165401002, 40165401003, 40165401004, 40165401005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	03/06/18 10:13	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/06/18 10:13	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	03/06/18 10:13	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/06/18 10:13	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/06/18 10:13	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/06/18 10:13	
1,1-Dichloropropene	ug/kg	<14.0	50.0	03/06/18 10:13	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	03/06/18 10:13	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	03/06/18 10:13	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	03/06/18 10:13	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	03/06/18 10:13	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	03/06/18 10:13	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	03/06/18 10:13	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	03/06/18 10:13	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/06/18 10:13	
1,2-Dichloropropane	ug/kg	<16.8	50.0	03/06/18 10:13	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	03/06/18 10:13	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	03/06/18 10:13	
1,3-Dichloropropane	ug/kg	<12.0	50.0	03/06/18 10:13	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	03/06/18 10:13	
2,2-Dichloropropane	ug/kg	<12.6	50.0	03/06/18 10:13	
2-Chlorotoluene	ug/kg	<15.8	50.0	03/06/18 10:13	
4-Chlorotoluene	ug/kg	<13.0	50.0	03/06/18 10:13	
Benzene	ug/kg	<9.2	20.0	03/06/18 10:13	
Bromobenzene	ug/kg	<20.6	50.0	03/06/18 10:13	
Bromochloromethane	ug/kg	<21.4	50.0	03/06/18 10:13	
Bromodichloromethane	ug/kg	<9.8	50.0	03/06/18 10:13	
Bromoform	ug/kg	<19.8	50.0	03/06/18 10:13	
Bromomethane	ug/kg	<69.9	250	03/06/18 10:13	
Carbon tetrachloride	ug/kg	<12.1	50.0	03/06/18 10:13	
Chlorobenzene	ug/kg	<14.8	50.0	03/06/18 10:13	
Chloroethane	ug/kg	<67.0	250	03/06/18 10:13	
Chloroform	ug/kg	<46.4	250	03/06/18 10:13	
Chloromethane	ug/kg	<20.4	50.0	03/06/18 10:13	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/06/18 10:13	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	03/06/18 10:13	
Dibromochloromethane	ug/kg	<17.9	50.0	03/06/18 10:13	
Dibromomethane	ug/kg	<19.3	50.0	03/06/18 10:13	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	03/06/18 10:13	
Diisopropyl ether	ug/kg	<17.7	50.0	03/06/18 10:13	
Ethylbenzene	ug/kg	<12.4	50.0	03/06/18 10:13	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

METHOD BLANK: 1655579 Matrix: Solid
Associated Lab Samples: 40165401001, 40165401002, 40165401003, 40165401004, 40165401005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	03/06/18 10:13	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	03/06/18 10:13	
m&p-Xylene	ug/kg	<34.4	100	03/06/18 10:13	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	03/06/18 10:13	
Methylene Chloride	ug/kg	<16.2	50.0	03/06/18 10:13	
n-Butylbenzene	ug/kg	<10.5	50.0	03/06/18 10:13	
n-Propylbenzene	ug/kg	<11.6	50.0	03/06/18 10:13	
Naphthalene	ug/kg	<40.0	250	03/06/18 10:13	
o-Xylene	ug/kg	<14.0	50.0	03/06/18 10:13	
p-Isopropyltoluene	ug/kg	<12.0	50.0	03/06/18 10:13	
sec-Butylbenzene	ug/kg	<11.9	50.0	03/06/18 10:13	
Styrene	ug/kg	<9.0	50.0	03/06/18 10:13	
tert-Butylbenzene	ug/kg	<9.5	50.0	03/06/18 10:13	
Tetrachloroethene	ug/kg	<12.9	50.0	03/06/18 10:13	
Toluene	ug/kg	<11.2	50.0	03/06/18 10:13	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/06/18 10:13	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	03/06/18 10:13	
Trichloroethene	ug/kg	<23.6	50.0	03/06/18 10:13	
Trichlorofluoromethane	ug/kg	<24.7	50.0	03/06/18 10:13	
Vinyl chloride	ug/kg	<21.1	50.0	03/06/18 10:13	
4-Bromofluorobenzene (S)	%	81	58-141	03/06/18 10:13	
Dibromofluoromethane (S)	%	90	68-130	03/06/18 10:13	
Toluene-d8 (S)	%	92	68-149	03/06/18 10:13	

LABORATORY CONTROL SAMPLE: 1655580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2440	98	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2410	97	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2460	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2470	99	63-124	
1,1-Dichloroethene	ug/kg	2500	2480	99	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	2120	85	78-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2580	103	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2400	96	70-130	
1,2-Dichloroethane	ug/kg	2500	2440	98	56-135	
1,2-Dichloropropane	ug/kg	2500	2510	100	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2350	94	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2290	92	70-130	
Benzene	ug/kg	2500	2380	95	66-130	
Bromodichloromethane	ug/kg	2500	2510	100	62-135	
Bromoform	ug/kg	2500	2200	88	68-130	
Bromomethane	ug/kg	2500	2120	85	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

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

LABORATORY CONTROL SAMPLE: 1655580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2460	98	57-130	
Chlorobenzene	ug/kg	2500	2500	100	70-130	
Chloroethane	ug/kg	2500	2350	94	36-144	
Chloroform	ug/kg	2500	2410	96	69-115	
Chloromethane	ug/kg	2500	2060	82	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2280	91	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2490	100	70-130	
Dibromochloromethane	ug/kg	2500	2310	92	70-130	
Dichlorodifluoromethane	ug/kg	2500	1370	55	10-99	
Ethylbenzene	ug/kg	2500	2430	97	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2430	97	70-130	
m&p-Xylene	ug/kg	5000	4900	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2390	96	63-134	
Methylene Chloride	ug/kg	2500	2500	100	56-123	
o-Xylene	ug/kg	2500	2470	99	70-130	
Styrene	ug/kg	2500	2540	102	70-130	
Tetrachloroethene	ug/kg	2500	2410	97	70-131	
Toluene	ug/kg	2500	2420	97	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2480	99	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2380	95	68-130	
Trichloroethene	ug/kg	2500	2390	96	70-130	
Trichlorofluoromethane	ug/kg	2500	2290	92	37-149	
Vinyl chloride	ug/kg	2500	2200	88	43-128	
4-Bromofluorobenzene (S)	%			86	58-141	
Dibromofluoromethane (S)	%			95	68-130	
Toluene-d8 (S)	%			89	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655581 1655582

Parameter	Units	40165409004 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	1380	1380	1190	1210	86	87	57-123	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1460	1360	106	99	73-135	7	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1420	1420	102	102	70-130	0	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1380	1340	100	97	63-124	3	20	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1140	1240	82	90	48-117	8	23	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1380	1380	1350	1270	97	92	78-145	6	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1380	1380	1290	1180	94	86	38-168	9	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1430	1430	103	103	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1470	1380	106	100	70-130	6	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1430	1380	103	100	56-145	3	20	
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1360	1440	99	104	77-123	5	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1400	1330	101	96	70-130	5	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1460	1360	105	99	70-130	6	20	

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655581 1655582

Parameter	Units	40165409004 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	1380	1380	1330	1310	96	95	65-130	1	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1300	1320	94	96	59-141	2	20	
Bromoform	ug/kg	<25.0	1380	1380	1350	1290	98	94	59-141	4	20	
Bromomethane	ug/kg	<69.9	1380	1380	1200	1200	87	87	28-139	0	20	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1160	1170	84	85	50-130	1	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1340	1390	97	101	70-130	4	20	
Chloroethane	ug/kg	<67.0	1380	1380	1320	1280	95	93	36-144	3	20	
Chloroform	ug/kg	<46.4	1380	1380	1340	1320	97	96	68-122	1	20	
Chloromethane	ug/kg	<25.0	1380	1380	1220	1220	88	88	30-126	0	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1240	1250	89	90	63-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1290	1320	93	95	70-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1380	1380	1320	1370	96	99	66-136	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	906	940	65	68	10-99	4	33	
Ethylbenzene	ug/kg	<25.0	1380	1380	1240	1260	89	91	80-122	2	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1230	1290	89	93	70-130	5	20	
m&p-Xylene	ug/kg	<50.0	2770	2770	2640	2690	95	97	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1390	1300	101	94	63-134	7	20	
Methylene Chloride	ug/kg	<25.0	1380	1380	1390	1380	100	100	56-127	1	20	
o-Xylene	ug/kg	<25.0	1380	1380	1340	1360	97	98	70-130	1	20	
Styrene	ug/kg	<25.0	1380	1380	1340	1400	97	101	70-130	4	20	
Tetrachloroethene	ug/kg	<25.0	1380	1380	1230	1300	89	94	70-131	6	20	
Toluene	ug/kg	<25.0	1380	1380	1270	1290	92	93	80-120	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1280	1300	92	94	60-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1350	1350	97	97	68-130	0	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1240	1280	89	93	70-130	4	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1090	1140	79	82	37-149	5	24	
Vinyl chloride	ug/kg	<25.0	1380	1380	1180	1220	85	88	39-128	3	20	
4-Bromofluorobenzene (S)	%						91	90	58-141			
Dibromofluoromethane (S)	%						104	102	68-130			
Toluene-d8 (S)	%						93	96	68-149			

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(920)469-2436

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

QC Batch: 282942 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165401001, 40165401002, 40165401003, 40165401004

SAMPLE DUPLICATE: 1657457

Parameter	Units	40165403002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.9	23.4	2	10	

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 SITE 25
Pace Project No.: 40165401

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165401001	**B25-1 1-2'**	EPA 3050	282555	EPA 6010	282672
40165401003	**B25-2 3-4'**	EPA 3050	282555	EPA 6010	282672
40165401001	**B25-1 1-2'**	EPA 5035/5030B	282565	EPA 8260	282566
40165401002	**B25-1 12-13'**	EPA 5035/5030B	282565	EPA 8260	282566
40165401003	**B25-2 3-4'**	EPA 5035/5030B	282565	EPA 8260	282566
40165401004	**B25-2 13-14'**	EPA 5035/5030B	282565	EPA 8260	282566
40165401005	**TRIP BLANK**	EPA 5035/5030B	282565	EPA 8260	282566
40165401001	**B25-1 1-2'**	ASTM D2974-87	282942		
40165401002	**B25-1 12-13'**	ASTM D2974-87	282942		
40165401003	**B25-2 3-4'**	ASTM D2974-87	282942		
40165401004	**B25-2 13-14'**	ASTM D2974-87	282942		

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

40165401

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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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagener
Phone:	715-342-3038
Project Number:	60558672
Project Name:	WIS 67 Phase 2.5 Site 25
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	Dan Barton
PO #:	Regulatory Program:

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

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs (F)	lead (A)	Moisture (A)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	B25-1 1-2'	3/1/18	9:00	S			✓	✓				
002	B25-1 12-13'	3/1/18	9:15	S			✓		✓			
003	B25-2 3-4'	3/1/18	8:40	S			✓	✓				
004	B25-2 13-14'	3/1/18	8:55	S			✓		✓			
005	Trip blank	3/1/18	-	S								

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:
Dan Barton	3/2/2018 10:30		
UPS	3/3/18 0920		

PACE Project No.: 40165401

Receipt Temp = ROI °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: AECOM

Sample Preservation Receipt Form

Project # 40165401

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																			1			1										2.5 / 5 / 10
002																			1			1										2.5 / 5 / 10
003																			1			1										2.5 / 5 / 10
004																			1			1										2.5 / 5 / 10
005																			1													2.5 / 5 / 10
006																																2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECOM

Project #:

WO#: 40165401

40165401

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z A47 8E9 41 9925 0286

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

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

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

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0.2 /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3/3/18
Initials: SM

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 MS/MSD	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): N/A		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CA **Date:** 3/5/18

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

March 12, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Green Bay Certification IDs

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165403001	**B26-1 1-2'**	Solid	03/01/18 09:50	03/03/18 09:20
40165403002	**B26-2 2-3**	Solid	03/01/18 10:00	03/03/18 09:20

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165403001	**B26-1 1-2'**	EPA 6010	JLD	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SSM	1	PASI-G
40165403002	**B26-2 2-3**	EPA 6010	JLD	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SSM	1	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165403001	**B26-1 1-2'**					
EPA 6010	Lead	20.0	mg/kg	2.9	03/08/18 10:58	
ASTM D2974-87	Percent Moisture	20.4	%	0.10	03/09/18 16:48	
40165403002	**B26-2 2-3**					
EPA 6010	Lead	24.0	mg/kg	1.7	03/07/18 16:01	
ASTM D2974-87	Percent Moisture	23.9	%	0.10	03/09/18 16:09	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

General Information:
2 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:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

General Information:
2 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.

QC Batch: 282562

CC: The continuing calibration for this compound is outside of method control limits. The result is estimated.

- LCS (Lab ID: 1655578)
  - Chloroethane

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: 282562

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

- LCS (Lab ID: 1655578)
  - 1,1-Dichloroethene

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

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: AECOM, Inc. - Stevens Point
Date: March 12, 2018

Analyte Comments:

QC Batch: 282562

1q: Analyte recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- B26-1 1-2' (Lab ID: 40165403001)
  - Chloroethane
- B26-2 2-3 (Lab ID: 40165403002)
  - Chloroethane
- BLANK (Lab ID: 1655577)
  - Chloroethane

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Sample: B26-1 1-2' **Lab ID: 40165403001** Collected: 03/01/18 09:50 Received: 03/03/18 09:20 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**20.0**	mg/kg	2.9	0.95	2	03/06/18 15:36	03/08/18 10:58	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:00	03/06/18 20:08	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:00	03/06/18 20:08	75-00-3	1q,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:00	03/06/18 20:08	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:00	03/06/18 20:08	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	75-35-4	L1,W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	1634-04-4	W

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Sample: B26-1 1-2' **Lab ID: 40165403001** Collected: 03/01/18 09:50 Received: 03/03/18 09:20 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								
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:00	03/06/18 20:08	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:00	03/06/18 20:08	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:00	03/06/18 20:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:08	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	68-130		1	03/06/18 08:00	03/06/18 20:08	1868-53-7	
Toluene-d8 (S)	104	%	68-149		1	03/06/18 08:00	03/06/18 20:08	2037-26-5	
4-Bromofluorobenzene (S)	88	%	58-141		1	03/06/18 08:00	03/06/18 20:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.4**	%	0.10	0.10	1		03/09/18 16:48		

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Sample: B26-2 2-3 **Lab ID: 40165403002** Collected: 03/01/18 10:00 Received: 03/03/18 09:20 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**24.0**	mg/kg	1.7	0.56	1	03/06/18 15:36	03/07/18 16:01	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:00	03/06/18 20:30	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:00	03/06/18 20:30	75-00-3	1q,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:00	03/06/18 20:30	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:00	03/06/18 20:30	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	75-35-4	L3,W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	1634-04-4	W

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(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Sample: B26-2 2-3 **Lab ID: 40165403002** Collected: 03/01/18 10:00 Received: 03/03/18 09:20 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								
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:00	03/06/18 20:30	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:00	03/06/18 20:30	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:00	03/06/18 20:30	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:00	03/06/18 20:30	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	68-130		1	03/06/18 08:00	03/06/18 20:30	1868-53-7	
Toluene-d8 (S)	100	%	68-149		1	03/06/18 08:00	03/06/18 20:30	2037-26-5	
4-Bromofluorobenzene (S)	87	%	58-141		1	03/06/18 08:00	03/06/18 20:30	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.9**	%	0.10	0.10	1		03/09/18 16:09		

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

QC Batch: 282555 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165403001, 40165403002

METHOD BLANK: 1655558 Matrix: Solid
Associated Lab Samples: 40165403001, 40165403002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	0.46J	1.3	03/07/18 15:18	

LABORATORY CONTROL SAMPLE: 1655559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	47.2	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655560 1655561

Parameter	Units	40165335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	14.0	55.4	55.5	59.0	65.3	81	92	75-125	10	20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

QC Batch: 282562 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40165403001, 40165403002

METHOD BLANK: 1655577 Matrix: Solid
Associated Lab Samples: 40165403001, 40165403002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	03/06/18 12:26	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/06/18 12:26	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	03/06/18 12:26	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/06/18 12:26	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/06/18 12:26	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/06/18 12:26	
1,1-Dichloropropene	ug/kg	<14.0	50.0	03/06/18 12:26	
1,2,3-Trichlorobenzene	ug/kg	20.7J	50.0	03/06/18 12:26	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	03/06/18 12:26	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	03/06/18 12:26	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	03/06/18 12:26	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	03/06/18 12:26	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	03/06/18 12:26	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	03/06/18 12:26	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/06/18 12:26	
1,2-Dichloropropane	ug/kg	<16.8	50.0	03/06/18 12:26	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	03/06/18 12:26	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	03/06/18 12:26	
1,3-Dichloropropane	ug/kg	<12.0	50.0	03/06/18 12:26	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	03/06/18 12:26	
2,2-Dichloropropane	ug/kg	<12.6	50.0	03/06/18 12:26	
2-Chlorotoluene	ug/kg	<15.8	50.0	03/06/18 12:26	
4-Chlorotoluene	ug/kg	<13.0	50.0	03/06/18 12:26	
Benzene	ug/kg	<9.2	20.0	03/06/18 12:26	
Bromobenzene	ug/kg	<20.6	50.0	03/06/18 12:26	
Bromochloromethane	ug/kg	<21.4	50.0	03/06/18 12:26	
Bromodichloromethane	ug/kg	<9.8	50.0	03/06/18 12:26	
Bromoform	ug/kg	<19.8	50.0	03/06/18 12:26	
Bromomethane	ug/kg	<69.9	250	03/06/18 12:26	
Carbon tetrachloride	ug/kg	<12.1	50.0	03/06/18 12:26	
Chlorobenzene	ug/kg	<14.8	50.0	03/06/18 12:26	
Chloroethane	ug/kg	<67.0	250	03/06/18 12:26	1q
Chloroform	ug/kg	<46.4	250	03/06/18 12:26	
Chloromethane	ug/kg	<20.4	50.0	03/06/18 12:26	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/06/18 12:26	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	03/06/18 12:26	
Dibromochloromethane	ug/kg	<17.9	50.0	03/06/18 12:26	
Dibromomethane	ug/kg	<19.3	50.0	03/06/18 12:26	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	03/06/18 12:26	
Diisopropyl ether	ug/kg	<17.7	50.0	03/06/18 12:26	
Ethylbenzene	ug/kg	<12.4	50.0	03/06/18 12:26	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

METHOD BLANK: 1655577 Matrix: Solid
Associated Lab Samples: 40165403001, 40165403002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	68.5	50.0	03/06/18 12:26	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	03/06/18 12:26	
m&p-Xylene	ug/kg	<34.4	100	03/06/18 12:26	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	03/06/18 12:26	
Methylene Chloride	ug/kg	<16.2	50.0	03/06/18 12:26	
n-Butylbenzene	ug/kg	18.2J	50.0	03/06/18 12:26	
n-Propylbenzene	ug/kg	<11.6	50.0	03/06/18 12:26	
Naphthalene	ug/kg	<40.0	250	03/06/18 12:26	
o-Xylene	ug/kg	<14.0	50.0	03/06/18 12:26	
p-Isopropyltoluene	ug/kg	<12.0	50.0	03/06/18 12:26	
sec-Butylbenzene	ug/kg	13.9J	50.0	03/06/18 12:26	
Styrene	ug/kg	<9.0	50.0	03/06/18 12:26	
tert-Butylbenzene	ug/kg	<9.5	50.0	03/06/18 12:26	
Tetrachloroethene	ug/kg	<12.9	50.0	03/06/18 12:26	
Toluene	ug/kg	<11.2	50.0	03/06/18 12:26	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/06/18 12:26	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	03/06/18 12:26	
Trichloroethene	ug/kg	<23.6	50.0	03/06/18 12:26	
Trichlorofluoromethane	ug/kg	<24.7	50.0	03/06/18 12:26	
Vinyl chloride	ug/kg	<21.1	50.0	03/06/18 12:26	
4-Bromofluorobenzene (S)	%	90	58-141	03/06/18 12:26	
Dibromofluoromethane (S)	%	106	68-130	03/06/18 12:26	
Toluene-d8 (S)	%	107	68-149	03/06/18 12:26	

LABORATORY CONTROL SAMPLE: 1655578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2680	107	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2460	98	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2630	105	70-130	
1,1-Dichloroethane	ug/kg	2500	2760	110	63-124	
1,1-Dichloroethene	ug/kg	2500	2980	119	53-117	L1
1,2,4-Trichlorobenzene	ug/kg	2500	2380	95	78-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2550	102	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2620	105	70-130	
1,2-Dichloroethane	ug/kg	2500	2970	119	56-135	
1,2-Dichloropropane	ug/kg	2500	2750	110	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2560	102	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2500	100	70-130	
Benzene	ug/kg	2500	2730	109	66-130	
Bromodichloromethane	ug/kg	2500	2700	108	62-135	
Bromoform	ug/kg	2500	2150	86	68-130	
Bromomethane	ug/kg	2500	2870	115	29-137	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

LABORATORY CONTROL SAMPLE: 1655578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2720	109	57-130	
Chlorobenzene	ug/kg	2500	2730	109	70-130	
Chloroethane	ug/kg	2500	3400	136	36-144	CC
Chloroform	ug/kg	2500	2760	110	69-115	
Chloromethane	ug/kg	2500	1870	75	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2510	100	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2440	98	70-130	
Dibromochloromethane	ug/kg	2500	2450	98	70-130	
Dichlorodifluoromethane	ug/kg	2500	1560	62	10-99	
Ethylbenzene	ug/kg	2500	2710	108	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2610	105	70-130	
m&p-Xylene	ug/kg	5000	5420	108	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2470	99	63-134	
Methylene Chloride	ug/kg	2500	2530	101	56-123	
o-Xylene	ug/kg	2500	2550	102	70-130	
Styrene	ug/kg	2500	2670	107	70-130	
Tetrachloroethene	ug/kg	2500	2680	107	70-131	
Toluene	ug/kg	2500	2740	110	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2690	107	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2440	98	68-130	
Trichloroethene	ug/kg	2500	2780	111	70-130	
Trichlorofluoromethane	ug/kg	2500	2670	107	37-149	
Vinyl chloride	ug/kg	2500	2260	90	43-128	
4-Bromofluorobenzene (S)	%			96	58-141	
Dibromofluoromethane (S)	%			106	68-130	
Toluene-d8 (S)	%			102	68-149	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

QC Batch: 282942
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 40165403002

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 1657457

Parameter	Units	40165403002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.9	23.4	2	10	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

QC Batch: 282947
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 40165403001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 1657462

Parameter	Units	40165372008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.8	11.9	2	10	

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Analyte recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
CC	The continuing calibration for this compound is outside of method control limits. The result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 SITE 26
Pace Project No.: 40165403

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165403001	**B26-1 1-2'**	EPA 3050	282555	EPA 6010	282672
40165403002	**B26-2 2-3**	EPA 3050	282555	EPA 6010	282672
40165403001	**B26-1 1-2'**	EPA 5035/5030B	282562	EPA 8260	282563
40165403002	**B26-2 2-3**	EPA 5035/5030B	282562	EPA 8260	282563
40165403001	**B26-1 1-2'**	ASTM D2974-87	282947		
40165403002	**B26-2 2-3**	ASTM D2974-87	282942		

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

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CHAIN OF CUSTODY

401655403

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagner
Phone:	715-342-3038
Project Number:	60558672
Project Name:	WDS 67 Phase 2S Site 26
Project State:	WI
Sampled By (Print):	Dan Bartow
Sampled By (Sign):	
PO #:	Regulatory Program:

*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

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

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

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

Matrix Codes
A = Air, 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	Analyses Requested: VOCs	Analyses Requested: lead (moisture)	Analyses Requested: moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						F	A	A				
001	B26-1 1-2'	3/1/18	9:50	S			✓	✓				
	~~B26-1 DUP~~	3/1/18		S								
002	B26-2 2-3	3/1/18	10:00	S			✓	✓				
	~~B26-2 DUP~~	3/1/18		S								

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:
	3/2/18 10:20		
UPS	3/3/18 0920		3/3/18 0920

PACE Project No. 401655403
Receipt Temp = ROT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: AECOM

Sample Preservation Receipt Form

Project # 40165403

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																			1				1										2.5 / 5 / 10
002																			1				1										2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECOM

Project #: **WO# : 40165403**

40165403

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z A47 8E9 41 9925 0286

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

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

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

Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R@D /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3/3/18
Initials: SB

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 MS/MSD	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CH **Date:** 3/5/18

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

March 13, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165404001	**WASTE CHAR. T1**	Solid	03/01/18 12:00	03/03/18 09:20

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165404001	**WASTE CHAR. T1**	WI MOD DRO	ABF	1	PASI-G
		WI MOD GRO	ALD	3	PASI-G
		EPA 6010	JLD	1	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
		EPA 1010	DEY	1	PASI-G
		EPA 9095	DEY	1	PASI-G

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165404001	**WASTE CHAR. T1**					
WI MOD DRO	Diesel Range Organics	34.3	mg/kg	3.6	03/12/18 10:48	DC
EPA 6010	Lead	16.3	mg/kg	1.4	03/09/18 19:07	M0
ASTM D2974-87	Percent Moisture	7.3	%	0.10	03/12/18 09:35	
EPA 1010	Flashpoint	>200	deg F		03/06/18 14:09	1q
EPA 9095	Free Liquids	Pass	no units		03/12/18 14:54	

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
1 sample was analyzed for WI MOD DRO. 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 WI MOD DRO 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
1 sample was analyzed for WI MOD GRO. 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 TPH GRO/PVOC WI ext. 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

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 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.

QC Batch: 282781

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40165404001

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

- MS (Lab ID: 1656576)
  - Lead
- MSD (Lab ID: 1656577)
  - Lead

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Method: **EPA 1010**
Description: 1010 Flashpoint,Closed Cup
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
1 sample was 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: 282493

1q: Use of method EPA 1010A for flash point analysis on solid samples is for informational purposes only. It is the user's responsibility to verify the acceptance of this data for intended use.

- WASTE CHAR. T1 (Lab ID: 40165404001)
  - Flashpoint

- WASTE CHAR. T1 (Lab ID: 40165404001)
  - Flashpoint

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Method: **EPA 9095**
Description: 9095 Paint Filter Liquid Test
Client: AECOM, Inc. - Stevens Point
Date: March 13, 2018

General Information:
1 sample was analyzed for EPA 9095. 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:

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Sample: WASTE CHAR. T1 **Lab ID: 40165404001** Collected: 03/01/18 12:00 Received: 03/03/18 09:20 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
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**34.3**	mg/kg	3.6	1.1	1	03/09/18 08:54	03/12/18 10:48		DC
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	03/06/18 07:30	03/06/18 13:47	71-43-2	W
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	03/06/18 07:30	03/06/18 13:47		
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1	03/06/18 07:30	03/06/18 13:47	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**16.3**	mg/kg	1.4	0.47	1	03/09/18 08:20	03/09/18 19:07	7439-92-1	M0
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.3**	%	0.10	0.10	1		03/12/18 09:35		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>200**	deg F			1		03/06/18 14:09		1q
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095								
Free Liquids	**Pass**	no units			1		03/12/18 14:54		

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

QC Batch: 282478 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40165404001

METHOD BLANK: 1655222 Matrix: Solid
Associated Lab Samples: 40165404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<25.0	50.0	03/06/18 09:03	
Gasoline Range Organics	mg/kg	<1.6	5.0	03/06/18 09:03	
a,a,a-Trifluorotoluene (S)	%	98	80-120	03/06/18 09:03	

LABORATORY CONTROL SAMPLE & LCSD: 1655223 1655224

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/kg	1000	968	1020	97	102	80-120	5	20	
Gasoline Range Organics	mg/kg	10	9.6	10.3	96	103	80-120	8	20	
a,a,a-Trifluorotoluene (S)	%				99	99	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

QC Batch: 282781 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165404001

METHOD BLANK: 1656574 Matrix: Solid
Associated Lab Samples: 40165404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.3	03/09/18 19:02	

LABORATORY CONTROL SAMPLE: 1656575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1656576 1656577

Parameter	Units	40165404001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	16.3	53.6	53.6	56.1	51.7	74	66	75-125	8	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

QC Batch: 282879 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 40165404001

METHOD BLANK: 1656982 Matrix: Solid
Associated Lab Samples: 40165404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<1.3	4.4	03/12/18 10:20	

LABORATORY CONTROL SAMPLE & LCSD: 1656983 1656984

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	29.5	30.3	74	76	70-120	3	20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

QC Batch: 283028
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165404001

SAMPLE DUPLICATE: 1658026

Parameter	Units	40165731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.1	5.2	1	10	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

QC Batch: 282493
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 40165404001

LABORATORY CONTROL SAMPLE: 1655272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		82.0			

SAMPLE DUPLICATE: 1655600

Parameter	Units	40165250001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	151	155			

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

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

QC Batch: 283083 Analysis Method: EPA 9095
QC Batch Method: EPA 9095 Analysis Description: 9095 PAINT FILTER LIQUID TEST
Associated Lab Samples: 40165404001

METHOD BLANK: 1658181 Matrix: Solid
Associated Lab Samples: 40165404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Free Liquids	no units	Fail		03/12/18 14:49	

LABORATORY CONTROL SAMPLE: 1658182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Free Liquids	no units		Pass			

SAMPLE DUPLICATE: 1658183

Parameter	Units	40165585001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Use of method EPA 1010A for flash point analysis on solid samples is for informational purposes only. It is the user's responsibility to verify the acceptance of this data for intended use.
DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 T1 WC
Pace Project No.: 40165404

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165404001	**WASTE CHAR. T1**	WI MOD DRO	282879	WI MOD DRO	282928
40165404001	**WASTE CHAR. T1**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165404001	**WASTE CHAR. T1**	EPA 3050	282781	EPA 6010	282941
40165404001	**WASTE CHAR. T1**	ASTM D2974-87	283028		
40165404001	**WASTE CHAR. T1**	EPA 1010	282493		
40165404001	**WASTE CHAR. T1**	EPA 9095	283083		

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

Page 1 of 1

40165404

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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagner
Phone:	715-342-3038
Project Number:	60558672
Project Name:	WDS 67 Phase 2.5 TI WC
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	
PO #:	Regulatory Program:

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

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

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

Matrix Codes

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	Pick Letter	Analyses Requested: Free liquids, Ignitability, Reactivity, Corrosivity	DRO by WIDRO	GRO by WIGRO	Flash Point	Benzene 8021
001	Waste Char. TI	3/1/18	12:00	S			✓	✓	✓	✓	✓

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	3/2/18 10:20		
UPS	3/3/18 0920		3/3/18 0920

PACE Project No.: 40165404
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

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: AE com

Sample Preservation Receipt Form

Project # 40165404

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																			2							2							2.5 / 5 / 10
002																						1											2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
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015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes ☒No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	8ozmg A

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40165404

40165404

Client Name: AECOM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z A47 8E9 41 9925 0286

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

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

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

Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: Rad /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3/3/18
Initials: SSR

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 MS/MSD	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. ID on sample "T1 Composite" TSR 3/3/18
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: OM **Date:** 3/5/18

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

March 14, 2018

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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CERTIFICATIONS

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

Green Bay Certification IDs

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

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SAMPLE SUMMARY

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165407001	**WASTE CHAR T2**	Solid	03/01/18 12:10	03/03/18 09:20

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SAMPLE ANALYTE COUNT

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165407001	**WASTE CHAR T2**	EPA 8082	BDS	10	PASI-G
		WI MOD DRO	ABF	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 6010	JLD	2	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
		EPA 1010	DEY	1	PASI-G
		EPA 9095	DEY	1	PASI-G
		EPA 9014	PAS	1	PASI-PA
		SM4500S2F-00	PAS	1	PASI-PA

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SUMMARY OF DETECTION

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165407001	**WASTE CHAR T2**					
WI MOD DRO	Diesel Range Organics	29.4	mg/kg	3.8	03/12/18 10:57	DC
EPA 6010	Cadmium	0.16J	mg/kg	0.51	03/09/18 19:20	
EPA 6010	Lead	23.5	mg/kg	1.3	03/09/18 19:20	
ASTM D2974-87	Percent Moisture	8.3	%	0.10	03/12/18 09:36	
EPA 1010	Flashpoint	>200	deg F		03/06/18 14:34	1q
EPA 9095	Free Liquids	Pass	no units		03/12/18 14:57	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
1 sample was 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 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
1 sample was analyzed for WI MOD DRO. 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 WI MOD DRO 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
1 sample was analyzed for WI MOD GRO. 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 TPH GRO/PVOC WI ext. 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

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 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.

QC Batch: 282781

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40165404001

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

- MS (Lab ID: 1656576)
  - Lead
- MSD (Lab ID: 1656577)
  - Lead

Additional Comments:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

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.

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:

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

PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **EPA 1010**
Description: 1010 Flashpoint,Closed Cup
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
1 sample was 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: 282493

1q: Use of method EPA 1010A for flash point analysis on solid samples is for informational purposes only. It is the user's responsibility to verify the acceptance of this data for intended use.

- WASTE CHAR T2 (Lab ID: 40165407001)
  - Flashpoint

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **EPA 9095**
Description: 9095 Paint Filter Liquid Test
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
1 sample was analyzed for EPA 9095. 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:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **EPA 9014**
Description: 733C S Reactive Cyanide
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
1 sample was analyzed for EPA 9014. 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 SW-846 7.3.3.2 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:

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PROJECT NARRATIVE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Method: **SM4500S2F-00**
Description: 734S Reactive Sulfide
Client: AECOM, Inc. - Stevens Point
Date: March 14, 2018

General Information:
1 sample was analyzed for SM4500S2F-00. 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 SW-846 7.3.4.2 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:

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

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Sample: WASTE CHAR T2 **Lab ID: 40165407001** Collected: 03/01/18 12:10 Received: 03/03/18 09:20 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)	**<27.3**	ug/kg	54.5	27.3	1	03/08/18 11:46	03/09/18 08:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<27.3**	ug/kg	54.5	27.3	1	03/08/18 11:46	03/09/18 08:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<27.3**	ug/kg	54.5	27.3	1	03/08/18 11:46	03/09/18 08:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<27.3**	ug/kg	54.5	27.3	1	03/08/18 11:46	03/09/18 08:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**<27.3**	ug/kg	54.5	27.3	1	03/08/18 11:46	03/09/18 08:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**<27.3**	ug/kg	54.5	27.3	1	03/08/18 11:46	03/09/18 08:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**<27.3**	ug/kg	54.5	27.3	1	03/08/18 11:46	03/09/18 08:40	11096-82-5	
PCB, Total	**<27.3**	ug/kg	54.5	27.3	1	03/08/18 11:46	03/09/18 08:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	56-98		1	03/08/18 11:46	03/09/18 08:40	877-09-8	
Decachlorobiphenyl (S)	86	%	49-104		1	03/08/18 11:46	03/09/18 08:40	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**29.4**	mg/kg	3.8	1.2	1	03/09/18 08:54	03/12/18 10:57		DC
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.5	2.7	1	03/06/18 07:30	03/06/18 17:40		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	**0.16J**	mg/kg	0.51	0.14	1	03/09/18 08:20	03/09/18 19:20	7440-43-9	
Lead	**23.5**	mg/kg	1.3	0.44	1	03/09/18 08:20	03/09/18 19:20	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	03/06/18 08:15	03/06/18 23:19	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	03/06/18 08:15	03/06/18 23:19	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	03/06/18 08:15	03/06/18 23:19	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	03/06/18 08:15	03/06/18 23:19	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Sample: WASTE CHAR T2 **Lab ID: 40165407001** Collected: 03/01/18 12:10 Received: 03/03/18 09:20 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	03/06/18 08:15	03/06/18 23:19	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	03/06/18 08:15	03/06/18 23:19	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/06/18 08:15	03/06/18 23:19	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/06/18 08:15	03/06/18 23:19	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	68-130		1	03/06/18 08:15	03/06/18 23:19	1868-53-7	
Toluene-d8 (S)	104	%	68-149		1	03/06/18 08:15	03/06/18 23:19	2037-26-5	
4-Bromofluorobenzene (S)	90	%	58-141		1	03/06/18 08:15	03/06/18 23:19	460-00-4	

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ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Sample: WASTE CHAR T2 **Lab ID: 40165407001** Collected: 03/01/18 12:10 Received: 03/03/18 09:20 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
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.3**	%	0.10	0.10	1		03/12/18 09:36		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>200**	deg F			1		03/06/18 14:34		1q
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095								
Free Liquids	**Pass**	no units			1		03/12/18 14:57		
733C S Reactive Cyanide	Analytical Method: EPA 9014 Preparation Method: SW-846 7.3.3.2								
Cyanide, Reactive	**<0.44**	mg/kg	1.1	0.44	1	03/08/18 21:11	03/08/18 23:04		
734S Reactive Sulfide	Analytical Method: SM4500S2F-00 Preparation Method: SW-846 7.3.4.2								
Sulfide, Reactive	**<10.9**	mg/kg	10.9	10.9	1	03/08/18 21:11	03/08/18 21:19		

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 282478 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40165407001

METHOD BLANK: 1655222 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<1.6	5.0	03/06/18 09:03	
a,a,a-Trifluorotoluene (S)	%	98	80-120	03/06/18 09:03	

LABORATORY CONTROL SAMPLE & LCSD: 1655223 1655224

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	10	9.6	10.3	96	103	80-120	8	20	
a,a,a-Trifluorotoluene (S)	%				99	99	80-120			

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.

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 282781 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40165407001

METHOD BLANK: 1656574 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	<0.13	0.50	03/09/18 19:02	
Lead	mg/kg	<0.43	1.3	03/09/18 19:02	

LABORATORY CONTROL SAMPLE: 1656575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	51.0	102	80-120	
Lead	mg/kg	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1656576 1656577

Parameter	Units	40165404001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/kg	0.16J	53.6	53.6	55.3	49.8	103	93	75-125	10	20	
Lead	mg/kg	16.3	53.6	53.6	56.1	51.7	74	66	75-125	8	20	M0

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

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 282565 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40165407001

METHOD BLANK: 1655579 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	03/06/18 10:13	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/06/18 10:13	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	03/06/18 10:13	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/06/18 10:13	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/06/18 10:13	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/06/18 10:13	
1,1-Dichloropropene	ug/kg	<14.0	50.0	03/06/18 10:13	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	03/06/18 10:13	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	03/06/18 10:13	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	03/06/18 10:13	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	03/06/18 10:13	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	03/06/18 10:13	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	03/06/18 10:13	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	03/06/18 10:13	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/06/18 10:13	
1,2-Dichloropropane	ug/kg	<16.8	50.0	03/06/18 10:13	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	03/06/18 10:13	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	03/06/18 10:13	
1,3-Dichloropropane	ug/kg	<12.0	50.0	03/06/18 10:13	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	03/06/18 10:13	
2,2-Dichloropropane	ug/kg	<12.6	50.0	03/06/18 10:13	
2-Chlorotoluene	ug/kg	<15.8	50.0	03/06/18 10:13	
4-Chlorotoluene	ug/kg	<13.0	50.0	03/06/18 10:13	
Benzene	ug/kg	<9.2	20.0	03/06/18 10:13	
Bromobenzene	ug/kg	<20.6	50.0	03/06/18 10:13	
Bromochloromethane	ug/kg	<21.4	50.0	03/06/18 10:13	
Bromodichloromethane	ug/kg	<9.8	50.0	03/06/18 10:13	
Bromoform	ug/kg	<19.8	50.0	03/06/18 10:13	
Bromomethane	ug/kg	<69.9	250	03/06/18 10:13	
Carbon tetrachloride	ug/kg	<12.1	50.0	03/06/18 10:13	
Chlorobenzene	ug/kg	<14.8	50.0	03/06/18 10:13	
Chloroethane	ug/kg	<67.0	250	03/06/18 10:13	
Chloroform	ug/kg	<46.4	250	03/06/18 10:13	
Chloromethane	ug/kg	<20.4	50.0	03/06/18 10:13	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/06/18 10:13	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	03/06/18 10:13	
Dibromochloromethane	ug/kg	<17.9	50.0	03/06/18 10:13	
Dibromomethane	ug/kg	<19.3	50.0	03/06/18 10:13	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	03/06/18 10:13	
Diisopropyl ether	ug/kg	<17.7	50.0	03/06/18 10:13	
Ethylbenzene	ug/kg	<12.4	50.0	03/06/18 10:13	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

METHOD BLANK: 1655579 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	03/06/18 10:13	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	03/06/18 10:13	
m&p-Xylene	ug/kg	<34.4	100	03/06/18 10:13	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	03/06/18 10:13	
Methylene Chloride	ug/kg	<16.2	50.0	03/06/18 10:13	
n-Butylbenzene	ug/kg	<10.5	50.0	03/06/18 10:13	
n-Propylbenzene	ug/kg	<11.6	50.0	03/06/18 10:13	
Naphthalene	ug/kg	<40.0	250	03/06/18 10:13	
o-Xylene	ug/kg	<14.0	50.0	03/06/18 10:13	
p-Isopropyltoluene	ug/kg	<12.0	50.0	03/06/18 10:13	
sec-Butylbenzene	ug/kg	<11.9	50.0	03/06/18 10:13	
Styrene	ug/kg	<9.0	50.0	03/06/18 10:13	
tert-Butylbenzene	ug/kg	<9.5	50.0	03/06/18 10:13	
Tetrachloroethene	ug/kg	<12.9	50.0	03/06/18 10:13	
Toluene	ug/kg	<11.2	50.0	03/06/18 10:13	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/06/18 10:13	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	03/06/18 10:13	
Trichloroethene	ug/kg	<23.6	50.0	03/06/18 10:13	
Trichlorofluoromethane	ug/kg	<24.7	50.0	03/06/18 10:13	
Vinyl chloride	ug/kg	<21.1	50.0	03/06/18 10:13	
4-Bromofluorobenzene (S)	%	81	58-141	03/06/18 10:13	
Dibromofluoromethane (S)	%	90	68-130	03/06/18 10:13	
Toluene-d8 (S)	%	92	68-149	03/06/18 10:13	

LABORATORY CONTROL SAMPLE: 1655580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2440	98	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2410	97	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2460	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2470	99	63-124	
1,1-Dichloroethene	ug/kg	2500	2480	99	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	2120	85	78-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2580	103	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2400	96	70-130	
1,2-Dichloroethane	ug/kg	2500	2440	98	56-135	
1,2-Dichloropropane	ug/kg	2500	2510	100	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2350	94	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2290	92	70-130	
Benzene	ug/kg	2500	2380	95	66-130	
Bromodichloromethane	ug/kg	2500	2510	100	62-135	
Bromoform	ug/kg	2500	2200	88	68-130	
Bromomethane	ug/kg	2500	2120	85	29-137	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

LABORATORY CONTROL SAMPLE: 1655580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2460	98	57-130	
Chlorobenzene	ug/kg	2500	2500	100	70-130	
Chloroethane	ug/kg	2500	2350	94	36-144	
Chloroform	ug/kg	2500	2410	96	69-115	
Chloromethane	ug/kg	2500	2060	82	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2280	91	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2490	100	70-130	
Dibromochloromethane	ug/kg	2500	2310	92	70-130	
Dichlorodifluoromethane	ug/kg	2500	1370	55	10-99	
Ethylbenzene	ug/kg	2500	2430	97	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2430	97	70-130	
m&p-Xylene	ug/kg	5000	4900	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2390	96	63-134	
Methylene Chloride	ug/kg	2500	2500	100	56-123	
o-Xylene	ug/kg	2500	2470	99	70-130	
Styrene	ug/kg	2500	2540	102	70-130	
Tetrachloroethene	ug/kg	2500	2410	97	70-131	
Toluene	ug/kg	2500	2420	97	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2480	99	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2380	95	68-130	
Trichloroethene	ug/kg	2500	2390	96	70-130	
Trichlorofluoromethane	ug/kg	2500	2290	92	37-149	
Vinyl chloride	ug/kg	2500	2200	88	43-128	
4-Bromofluorobenzene (S)	%			86	58-141	
Dibromofluoromethane (S)	%			95	68-130	
Toluene-d8 (S)	%			89	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655581 1655582

Parameter	Units	40165409004 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	1380	1380	1190	1210	86	87	57-123	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1460	1360	106	99	73-135	7	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1420	1420	102	102	70-130	0	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1380	1340	100	97	63-124	3	20	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1140	1240	82	90	48-117	8	23	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1380	1380	1350	1270	97	92	78-145	6	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1380	1380	1290	1180	94	86	38-168	9	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1430	1430	103	103	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1470	1380	106	100	70-130	6	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1430	1380	103	100	56-145	3	20	
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1360	1440	99	104	77-123	5	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1400	1330	101	96	70-130	5	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1460	1360	105	99	70-130	6	20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1655581 1655582

Parameter	Units	40165409004 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	1380	1380	1330	1310	96	95	65-130	1	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1300	1320	94	96	59-141	2	20	
Bromoform	ug/kg	<25.0	1380	1380	1350	1290	98	94	59-141	4	20	
Bromomethane	ug/kg	<69.9	1380	1380	1200	1200	87	87	28-139	0	20	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1160	1170	84	85	50-130	1	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1340	1390	97	101	70-130	4	20	
Chloroethane	ug/kg	<67.0	1380	1380	1320	1280	95	93	36-144	3	20	
Chloroform	ug/kg	<46.4	1380	1380	1340	1320	97	96	68-122	1	20	
Chloromethane	ug/kg	<25.0	1380	1380	1220	1220	88	88	30-126	0	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1240	1250	89	90	63-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1290	1320	93	95	70-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1380	1380	1320	1370	96	99	66-136	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	906	940	65	68	10-99	4	33	
Ethylbenzene	ug/kg	<25.0	1380	1380	1240	1260	89	91	80-122	2	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1230	1290	89	93	70-130	5	20	
m&p-Xylene	ug/kg	<50.0	2770	2770	2640	2690	95	97	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1390	1300	101	94	63-134	7	20	
Methylene Chloride	ug/kg	<25.0	1380	1380	1390	1380	100	100	56-127	1	20	
o-Xylene	ug/kg	<25.0	1380	1380	1340	1360	97	98	70-130	1	20	
Styrene	ug/kg	<25.0	1380	1380	1340	1400	97	101	70-130	4	20	
Tetrachloroethene	ug/kg	<25.0	1380	1380	1230	1300	89	94	70-131	6	20	
Toluene	ug/kg	<25.0	1380	1380	1270	1290	92	93	80-120	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1280	1300	92	94	60-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1350	1350	97	97	68-130	0	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1240	1280	89	93	70-130	4	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1090	1140	79	82	37-149	5	24	
Vinyl chloride	ug/kg	<25.0	1380	1380	1180	1220	85	88	39-128	3	20	
4-Bromofluorobenzene (S)	%						91	90	58-141			
Dibromofluoromethane (S)	%						104	102	68-130			
Toluene-d8 (S)	%						93	96	68-149			

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 282785
QC Batch Method: EPA 3541
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40165407001

METHOD BLANK: 1656593 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	03/09/18 01:29	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	03/09/18 01:29	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	03/09/18 01:29	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	03/09/18 01:29	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	03/09/18 01:29	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	03/09/18 01:29	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	03/09/18 01:29	
Decachlorobiphenyl (S)	%	78	49-104	03/09/18 01:29	
Tetrachloro-m-xylene (S)	%	75	56-98	03/09/18 01:29	

LABORATORY CONTROL SAMPLE: 1656594

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	394	79	61-105	
Decachlorobiphenyl (S)	%			79	49-104	
Tetrachloro-m-xylene (S)	%			80	56-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1656595 1656596

Parameter	Units	60265155001 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	<50.0			<25.0	<25.0					20	
PCB-1221 (Aroclor 1221)	ug/kg	<50.0			<25.0	<25.0					20	
PCB-1232 (Aroclor 1232)	ug/kg	<50.0			<25.0	<25.0					20	
PCB-1242 (Aroclor 1242)	ug/kg	<50.0			<25.0	<25.0					20	
PCB-1248 (Aroclor 1248)	ug/kg	<50.0			<25.0	<25.0					20	
PCB-1254 (Aroclor 1254)	ug/kg	<50.0			<25.0	<25.0					20	
PCB-1260 (Aroclor 1260)	ug/kg	<50.0	500	500	373	387	75	77	35-125	4	20	
Decachlorobiphenyl (S)	%						72	72	49-104			
Tetrachloro-m-xylene (S)	%						77	75	56-98			

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 282879 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 40165407001

METHOD BLANK: 1656982 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<1.3	4.4	03/12/18 10:20	

LABORATORY CONTROL SAMPLE & LCSD: 1656983 1656984

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	29.5	30.3	74	76	70-120	3	20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 283028
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40165407001

SAMPLE DUPLICATE: 1658026

Parameter	Units	40165731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.1	5.2	1	10	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 282493
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 40165407001

LABORATORY CONTROL SAMPLE: 1655272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		82.0			

SAMPLE DUPLICATE: 1655600

Parameter	Units	40165250001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	151	155			

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 283083 Analysis Method: EPA 9095
QC Batch Method: EPA 9095 Analysis Description: 9095 PAINT FILTER LIQUID TEST
Associated Lab Samples: 40165407001

METHOD BLANK: 1658181 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Free Liquids	no units	Fail		03/12/18 14:49	

LABORATORY CONTROL SAMPLE: 1658182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Free Liquids	no units		Pass			

SAMPLE DUPLICATE: 1658183

Parameter	Units	40165585001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 290647 Analysis Method: EPA 9014
QC Batch Method: SW-846 7.3.3.2 Analysis Description: 733C Reactive Cyanide
Associated Lab Samples: 40165407001

METHOD BLANK: 1423011 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	<0.40	1.0	03/08/18 23:02	

LABORATORY CONTROL SAMPLE: 1423012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	99.9	<0.40	0	0-8	

SAMPLE DUPLICATE: 1423013

Parameter	Units	30245314001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	<0.54		20	

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QUALITY CONTROL DATA

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

QC Batch: 290646 Analysis Method: SM4500S2F-00
QC Batch Method: SW-846 7.3.4.2 Analysis Description: 734S Reactive Sulfide
Associated Lab Samples: 40165407001

METHOD BLANK: 1423008 Matrix: Solid
Associated Lab Samples: 40165407001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	<10	10	03/08/18 21:19	

LABORATORY CONTROL SAMPLE: 1423009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	200	40.0	20	0-52	

SAMPLE DUPLICATE: 1423010

Parameter	Units	30245314001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	<13.5		20	

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

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QUALIFIERS

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

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
PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

1q	Use of method EPA 1010A for flash point analysis on solid samples is for informational purposes only. It is the user's responsibility to verify the acceptance of this data for intended use.
DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

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Green Bay, WI 54302
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60558672 WIS 67 PH 2.5 T2 WC
Pace Project No.: 40165407

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165407001	**WASTE CHAR T2**	EPA 3541	282785	EPA 8082	282790
40165407001	**WASTE CHAR T2**	WI MOD DRO	282879	WI MOD DRO	282928
40165407001	**WASTE CHAR T2**	TPH GRO/PVOC WI ext.	282478	WI MOD GRO	282526
40165407001	**WASTE CHAR T2**	EPA 3050	282781	EPA 6010	282941
40165407001	**WASTE CHAR T2**	EPA 5035/5030B	282565	EPA 8260	282566
40165407001	**WASTE CHAR T2**	ASTM D2974-87	283028		
40165407001	**WASTE CHAR T2**	EPA 1010	282493		
40165407001	**WASTE CHAR T2**	EPA 9095	283083		
40165407001	**WASTE CHAR T2**	SW-846 7.3.3.2	290647	EPA 9014	290659
40165407001	**WASTE CHAR T2**	SW-846 7.3.4.2	290646	SM4500S2F-00	290658

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

Page 1 of 1

40165407

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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagner
Phone:	715-342-3038
Project Number:	60558072
Project Name:	WR 67 Phase 2.5 TZ WC
Project State:	WI
Sampled By (Print):	Dan Barten
Sampled By (Sign):	Dan Barten
PO #:	Regulatory Program:

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

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: Flash Point	DRO by WIDRO	GRO by WIGRO	VOC by 8260	Ident Liquids, Phenols, PCB, Reactivity, Dioxins	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Waste Char TZ	3/1/18	12:10	S			✓	✓	✓	✓	✓			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:		Relinquished By:	Date/Time:	Received By:	Date/Time:	PACE Project No.
Transmit Prelim Rush Results by (complete what you want):		Dan Barten	3/2/18 10:20			40165407
Email #1:		Relinquished By: UPS	Date/Time: 3/3/18 0920	Received By:	Date/Time: 3/3/18 0920	Receipt Temp = 2.0 °C
Email #2:		Relinquished By:	Date/Time:	Received By:	Date/Time:	Sample Receipt pH OK / Adjusted
Telephone:		Relinquished By:	Date/Time:	Received By:	Date/Time:	Cooler Custody Seal Present / Not Present Intact / Not Intact
Fax:		Relinquished By:	Date/Time:	Received By:	Date/Time:	

Samples on HOLD are subject to special pricing and release of liability

Client Name: AECOM

Sample Preservation Receipt Form

Project # 40165407

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																			2							2							2.5 / 5 / 10
002																						1											2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
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017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	40zAg A

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECOM

Project #: **WO# : 40165407**

40165407

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z A47 859 41 9925 0286

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

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

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

Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: bkt /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3/3/18
Initials: SSn

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 MS/MSD	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-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.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. IDon sampling "T2 Composite" SSn 3/3/18
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CH **Date:** 3/5/18

Appendix J

Hazardous Substance Release Notifications (Non-Emergency) and Supporting Documentation

Site 16

Campbellsport News

From:	Wagoner, Kyle
To:	DNRRRNER@wisconsin.gov
Cc:	DOT Hazmat Unit e-Mailbox (dothazmatunit@dot.wi.gov); VanPrice, Kathie - DOT; SENFELDS, DAVID
Subject:	Form 4400-225 Notification For Hazardous Substance Discharge (Non-Emergency) - Campbellport News (Site #16) WIS Hwy. 67, WisDOT #4090-06-00, Village of Campbellsport
Date:	Friday, April 06, 2018 1:27:00 PM
Attachments:	Form 4400-225 (WisDOT #4090-06-00, Site #16).pdf Pace_Lab_report_B16-1_(Site 16).pdf 20180228_141537.jpg 4090-06-00_Phase 2.5 Site Plan (Site 16).pdf 4090-06-00_Table_1_Site_16_WIS67_Phase2.5.pdf Field Soil Boring Log (B16-1, Site 16).pdf 1935 as-built WIS 67 (Site 16).pdf

---

Form 4400-225 Notification For Hazardous Substance Discharge (Non-Emergency Only)

The attached file is the filled-out form. Please open it to review the data.

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (R 06/17)

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from **(check one)**:

- (●) Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- ( ) Aboveground Petroleum Storage Tank System
- ( ) Dry Cleaner Facility
- ( ) Other - Describe: _____

ATTN DNR: **R & R Program Associate**

Date DNR Notified: 04/06/2018

1. Discharge Reported By

Name	Firm	Phone Number (include area code)
Kyle Wagoner	AECOM	(715) 342-3038

Mailing Address	Email
200 Indiana Ave, Stevens Point, WI 54481	kyle.wagoner@aecom.com

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.

Campbellsport News (WisDOT Project 4090-06-00)

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60.

101 N. Fond du Lac Ave (WIS 67)

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.

Village of Campbellsport

County	Legal Description:	WTM:
Fond Du Lac	NE ¼ of NE ¼ Section 13, Town 13 N, Range 18 (●) E ( ) W	X 658385 Y 348686

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

To Be Determined

☐ A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review DNR publication RR-055; and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using DNR Form 4400-237.

Contact Person Name (if different)	Phone Number	Email

Mailing Address	City	State	ZIP Code

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email

Mailing Address	City	State	ZIP Code

(continued)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- ☒ VOCs
  - ☐ PCE
  - ☐ TCE
  - ☐ Other Chlorinated
  - ☐ Diesel
  - ☐ Fuel Oil
  - ☒ Gasoline
  - ☐ Hydraulic Oil
  - ☐ Jet Fuel
- *(VOCs continued)*
  - ☐ Mineral Oil
  - ☐ Waste Oil
  - ☐ Petroleum-Unknown Type
- ☐ PAHs
- ☐ PCBs
- ☐ Cyanide
- ☐ Leachate
- ☐ Manure
- ☐ Metals
  - ☐ Arsenic
  - ☐ Chromium
  - ☐ Lead
  - ☐ Other: _____
- ☐ Pesticides: _____
- ☐ Fertilizer: _____
- ☐ RCRA Hazardous Waste: _____
- ☐ Other: _____
- ☐ Unknown

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- ___ Air Contamination
- ___ Co-mingled (Petroleum & Non-Petroleum)
- ___ Contamination in Fractured Bedrock
- ___ Contamination Within 1 Meter of Bedrock
- ___ Contaminated Private Well
- ___ Contaminated Public Well
- K Contamination in Right of Way
- ___ Fire Explosion Threat
- ___ Free Product
- ___ Groundwater Contamination
- ___ Off-Site Contamination
- ___ Sanitary Sewer Contamination
- ___ Storm Sewer Contamination
- ___ Sediment Contamination
- K Soil Contamination
- ___ Soil Gas Contamination
- ___ Sub-slab Vapor Contamination
- ___ Surface Water Contamination
- ___ Within 100 ft of Private Well
- ___ Within 1000 ft of Public Well

Other (specify): _____

Contamination was discovered as a result of:

☐ Tank closure assessment Date _____ ☒ Site assessment Date 03/13/2018 ☐ Other - Describe: _____ Date _____

Lab results: ☐ Lab results will be faxed upon receipt ☒ Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information:

Source

- ☒ Tank
- ☐ Piping
- ☒ Dispenser
- ☐ Submersible Turbine Pump
- ☐ Delivery Problem
- ☐ Other (specify): _____

Cause

- ☐ Spill
- ☐ Overfill
- ☐ Corrosion
- ☐ Physical or Mechanical Damage
- ☐ Installation Problem
- ☐ Other (does not fit any of above)
- ☒ Unknown

☐ Does not apply.

Contact information to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (FAX: 920-662-5413); Attention -- R&R Program Associate: DNRRRNER@wisconsin.gov

Brown, Calumet, Door, Fond du Lac **(except City of Waupun - see South Central Region)**, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties

Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties

South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate: DNRRRSCR@wisconsin.gov

Columbia, Dane, Dodge, Fond du Lac **(City of Waupun only)**, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties

Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov

Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

West Central Region (FAX: 715-839-6076); Attention -- R&R Program Associate: DNRRRWCR@wisconsin.gov

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties

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

March 13, 2018

WIS 67 - CAMPBELLSPORT
SITE #16
B16-1 (16-17')

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

4090-06-00

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

NELAP ACCREDITED TNI LABORATORY

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 16
Pace Project No.: 40165410

Sample: B16-1 16-17' **Lab ID: 40165410002** Collected: 02/27/18 15:35 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<100**	ug/kg	200	100	4	03/06/18 07:30	03/06/18 18:06	71-43-2	W
Ethylbenzene	**3360**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	100-41-4	
Methyl-tert-butyl ether	**<100**	ug/kg	200	100	4	03/06/18 07:30	03/06/18 18:06	1634-04-4	W
Naphthalene	**4030**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	91-20-3	
Toluene	**<100**	ug/kg	200	100	4	03/06/18 07:30	03/06/18 18:06	108-88-3	W
1,2,4-Trimethylbenzene	**20300**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	95-63-6	
1,3,5-Trimethylbenzene	**7010**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	108-67-8	
m&p-Xylene	**16100**	ug/kg	445	222	4	03/06/18 07:30	03/06/18 18:06	179601-23-1	
o-Xylene	**2910**	ug/kg	222	111	4	03/06/18 07:30	03/06/18 18:06	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		4	03/06/18 07:30	03/06/18 18:06	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**5.3**	mg/kg	1.3	0.44	1	03/09/18 08:20	03/09/18 19:22	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.1**	%	0.10	0.10	1		03/09/18 15:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical
www.pacelabs.com

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

Page 1 of 1

SSM

40165410

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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagoner
Phone:	715-342-3038
Project Number:	60558672
Project Name:	Wis 67 Phase 2.5 - Site 16
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	Dan Barton
PO #:	Regulatory Program:

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

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

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

Matrix Codes
A = Air, 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) Y/N				CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						PRESERVATION (CODE)* Pick Letter	F	A	A			
						PVOCs + Naph	Lead	Moisture			
001	B16-1 1-2'	2/27/18	15:00	S		✓		✓			
002	B16-1 16-17'	2/27/18	15:35	S		✓	✓				
003	B16-2 2-3'	2/27/18	14:10	S		✓	✓				
004	B16-2 9-10'	2/27/18	14:30	S		✓		✓			

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:
Dan Barton	3/2/18 10:20		
UPS	3/3/18 0920	Katie Schramm Pace	3/3/18 0920

PACE Project No. 40165410
Receipt Temp = R01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

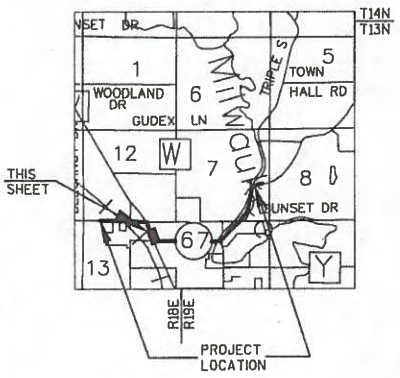
C019a(27Jun2006)

Version 6.0, 06/14/06

ORIGINAL

4

SHEET LOCATION



TRANSPORTATION PROJECT PLAT NO: 4090-06-21 - 4.06

PART OF LOT 2, BLOCK 1, CAMPBELL & RHODES ADDITION TO CAMPBELLSPORT AND ALSO PART OF CAMPBELLSPORT PROFESSIONAL CENTER CONDOMINIUM AND ALSO PART OF LOT 3 & LOT 4, B.H. PECK'S ADDITION AND ALSO PART OF LOT 1, BLOCK 2, ORIGINAL PLAT OF NEW CAMPBELLSPORT, ALL LOCATED IN THE NW 1/4 OF THE NE 1/4, AND ALSO PART OF LOT 1, BLOCK 1, SCHURK'S ADDITION IN THE NE 1/4 OF THE NE 1/4, SECTION 13, TOWNSHIP 13 NORTH, RANGE 18 EAST, VILLAGE OF CAMPBELLSPORT, FOND DU LAC COUNTY, WISCONSIN.

RELOCATION ORDER STH 67 FOND DU LAC COUNTY
WCPL CAMPBELLSPORT - CTH SSS

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-06-21 - 4.06
AMENDMENT NO:____

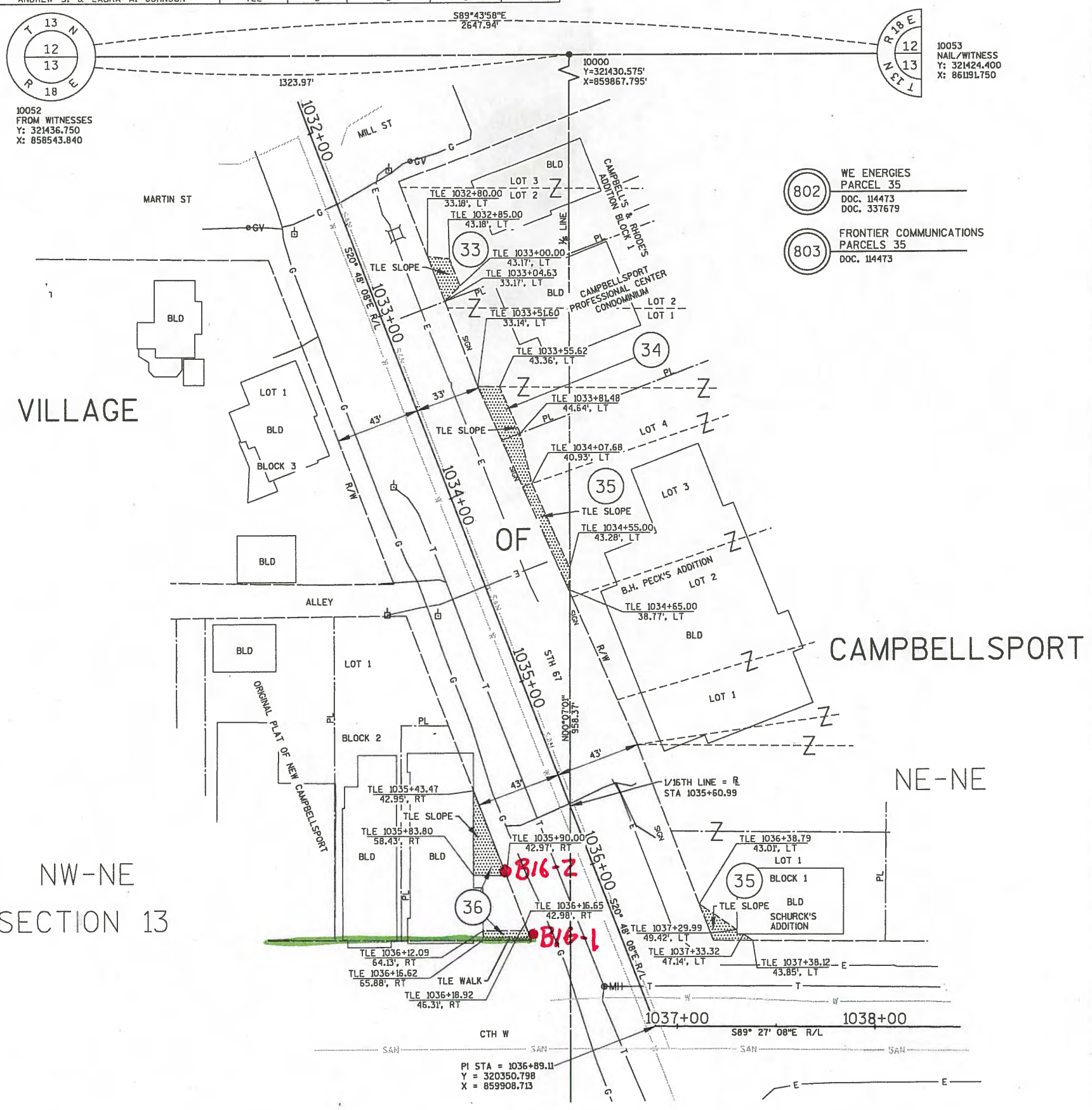
OWNER'S NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
33	JANIS & CHRISTINE ZOMMERS	TLE	0	0	0	198
34	KENNETH & MARJORIE KETTER	TLE	0	0	0	279
35	NATIONAL EXCHANGE BANK & TRUST	TLE	0	0	0	641
36	ANDREW S. & LAURA A. JOHNSON	TLE	0	0	0	484

UTILITY SCHEDULE OF INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
802	WE ENERGIES	RELEASE OF RIGHTS
803	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS



NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: CAMPBELL'S & RHODES'S ADDITION TO THE VILLAGE OF CAMPBELLSPORT; B.H.PECK'S ADDITION TO CAMPBELLSPORT; SCHURCK'S ADDITION TO THE VILLAGE OF CAMPBELLSPORT; ORIGINAL PLAT OF NEW CASSELL (CAMPBELLSPORT).
EXISTING SIDE ROAD RIGHT-OF-WAYS SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: SCHURCK'S ADDITION TO THE VILLAGE OF CAMPBELLSPORT; ORIGINAL PLAT OF NEW CASSELL (CAMPBELLSPORT).

GN

SCALE, FEET
0 30 60

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOLUME 19 OF TRANSPORTATION PROJECT PLATS, PAGE 33 AS DOCUMENT NO. 1096490 FOR ADDITIONAL INFORMATION.

Mead & Hunt
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

I, WILLIAM F. KOTTLER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT 4090-06-21 - 4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN WILLIAM F. KOTTLER S-2348 CROSS PLAINS WISCONSIN LAND SURVEYOR

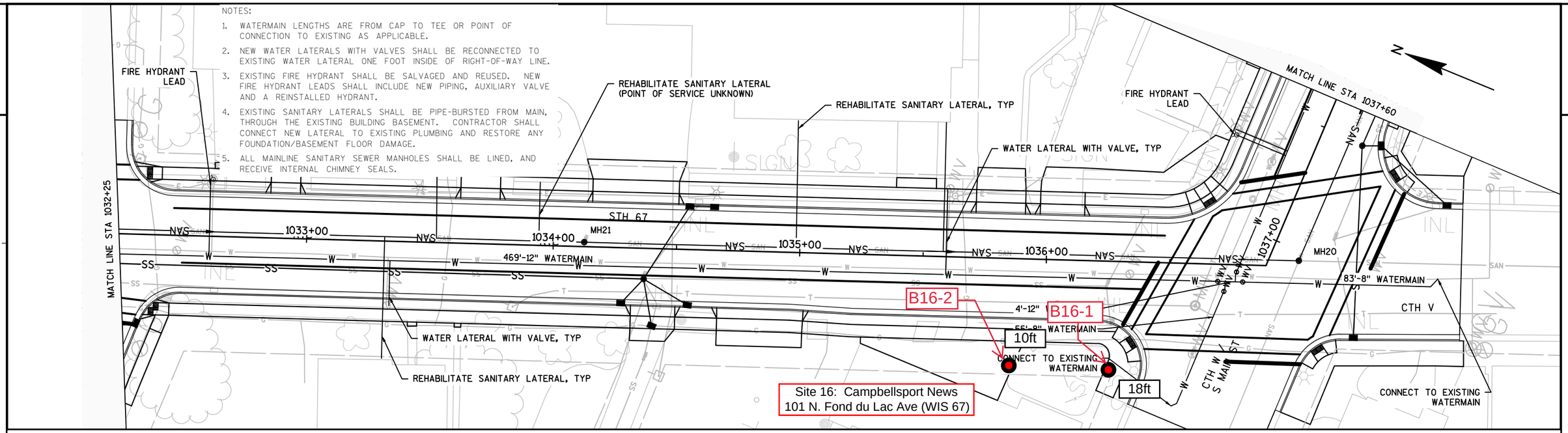
SIGNATURE: _____ DATE:04/03/18
PRINT NAME: WILLIAM F. KOTTLER
REGISTRATION NUMBER: S-2348

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE:
PRINT NAME:

4

PLOT DATE : 4/3/2018 12:38 PM PLOT BY : William Kottler PLOT NAME : PLOT SCALE : ********** PLOT DATE :
FILE NAME : X:\323050\113975.02\TECH\CAD\RW\040101.1_RP-TPP 4090-06-21.DWG
APPRAISAL PLAT DATE : _____



Legend

- Direct Push Boring (February 27, 2018)
- x ft — Depth to bottom of boring

Phase 2.5 Soil Boring Site Plan
WIS 67 - Campbellsport

AECOM Project No. 60558672
WisDOT ID 4090-06-00

PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	UTILITY PLAN	SHEET	E

PRE_72

FILE NAME : X:\3230500\113975.02\TECH\CADD\40900600\SHEETSPLAN\023001_UP.DWG PLOT DATE : 1/31/2017 2:17 PM PLOT BY : DAVID YAHNKE PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 44

Table 1

Phase 2.5 Soil Sample Analytical Results

Campbellsport News (Site No. 16)
101 N. Fond du Lac Avenue (WIS 67)
Village of Campbellsport, Fon du Lac County, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B16-1**	**B16-1**	**B16-2**	**B16-2**
			Sample Depth (feet):	**1-2'**	**16-17'**	**2-3'**	**9-10'**
			PID Readings (i.u.):	**2.1**	**972**	**1.6**	**1.7**
			Sample Date:	**2/27/2018**	**2/27/2018**	**2/27/2018**	**2/27/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**			
	Non-Industrial	**Industrial**					
PVOCs + Naph by WI MOD GRO (ug/kg)							
Benzene	1,600	7,070	5.1	<25	<100	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	**3,360**	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<100	<25	<25
Naphthalene	5,520	24,100	658.2	<25	**4,030**	<25	<25
Toluene	818,000	818,000	1,107.2	<25	<100	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	**20,300**	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	**7,010**	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	**16,100**	<50	<50
o-Xylene	434,000	434,000		<25	**2,910**	<25	<25
Metals by EPA Method 6010 (mg/kg)							
Lead (total)	400	800	27.0	-	5.3	16	-

Notes:

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated
Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
ug/kg = micrograms per kilogram
mg/kg - milligrams per kilogram
i.u. = instrument units
Bold result indicates NR 720 RCL exceedance (any).

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 2

Facility/Project Name: Campbellsport News (Site No. 16)	License/Permit/Monitoring Number:	Boring Number: B16-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Mitch Last Name: Panthl — Firm: GESTRA	Date Drilling Started: 02/27/2018 (m m d d y y y y)	Date Drilling Completed: 02/27/2018	Drilling Method: Direct-Push
WI Unique Well No.: _ _ _ _ _ _ _	DNR Well ID No.: _ _ _ _ _ _ _	Well Name:	Final Static Water Level: _____ Feet MSL
Surface Elevation: _____ Feet MSL	Borehole Diameter: 2.0 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — NW 1/4 of NE 1/4 of Section 13, T 13 N, R 18	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W	
Facility ID	County: Fond du Lac	County Code:	Civil Town/City/ or Village: Campbellsport

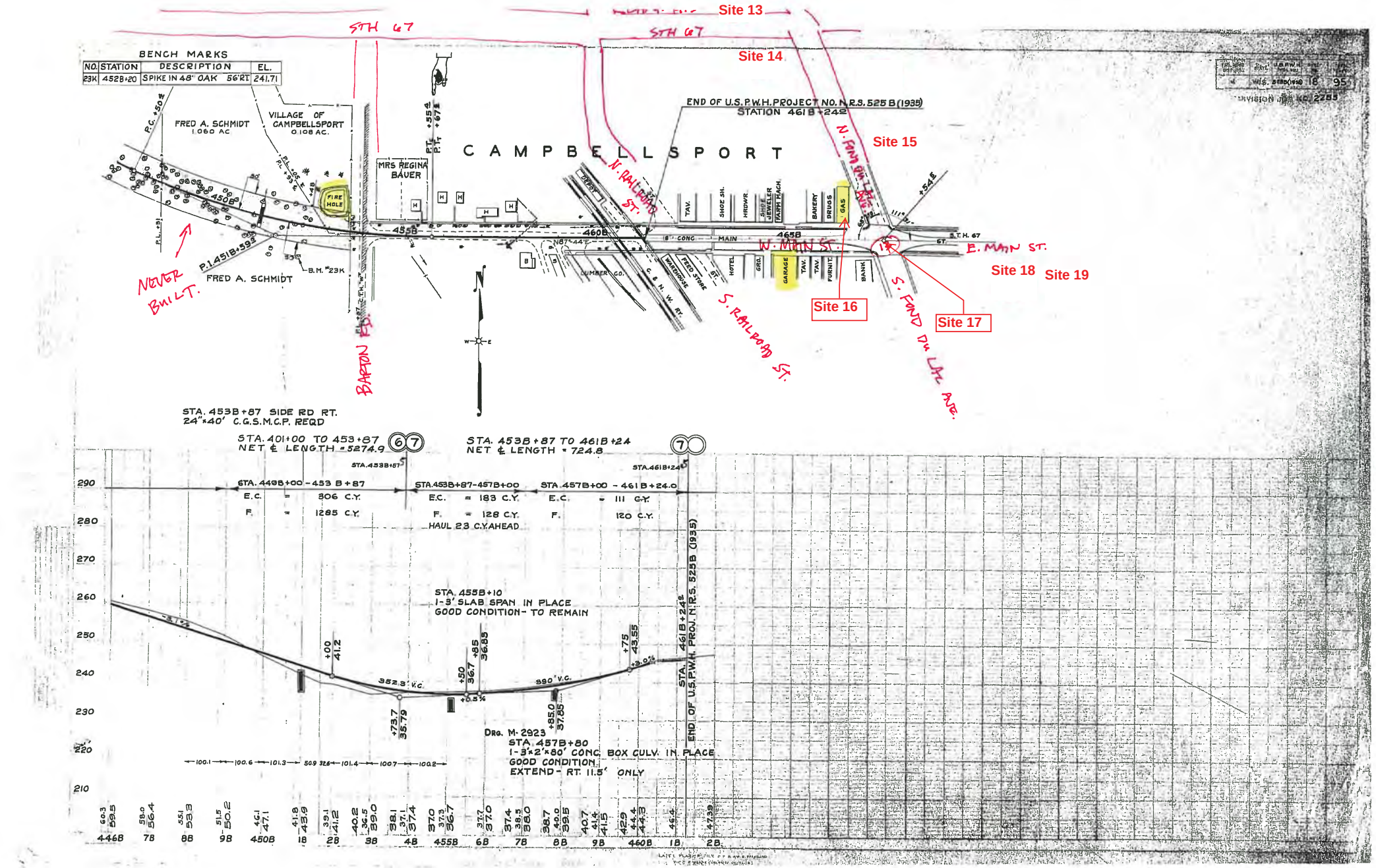
Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0-1' gray medium to course sand	SW			2.1						
				1-3' lt brown fine sand w/silt and pebbles	SW			1.8						
				3-5' brown-dark brown clay w/some cobbles	CL			1.8						
				5-10' wet @ 5' gray-Hvn silty clay w/ pebbles and gravel	GC			2.2						
				10-13' SAA	GC			2.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: AECOM

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

Sample Number and Type	Sample Length Att. & Recovered (in.)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
				13-15' gray - white fractured stone				32						
				15-16' Brown silty clay	OL			12						
				16-18' gray hard fractured stone and silt				972						Strong petroleum odor
				EOB @ 18'										Well installed, no groundwater present after sitting overnight
														Refusal @ 18'


Site 13
STH 67
STH 67
Site 14
BENCH MARKS
NO. STATION DESCRIPTION EL.
23K 4528+20 SPIKE IN 48" OAK 56'RT 241.71
END OF U.S.P.W.H. PROJECT NO. N.R.S. 525 B (1935)
STATION 461B+242
Site 15
FRED A. SCHMIDT 1.060 AC
VILLAGE OF CAMPBELLSPORT 0.108 AC.
MRS REGINA BAUER
C A M P B E L L S P O R T
N. RAILROAD ST.
N. FOND DU LAC AVE.
FIRE HOLE
P.C. +50
P.T. +55.4
P.T. +67.8
P.C. +23
P.I. 451B+59
B.M. "23K"
FRED A. SCHMIDT
NEVER BUILT.
BARTON RD.
W. MAIN ST.
E. MAIN ST.
S. RAILROAD ST.
S. FOND DU LAC AVE.
Site 16
Site 17
Site 18
Site 19
STA. 453B+87 SIDE RD RT.
24"x40' C.G.S.M.C.P. REQD
STA. 401+00 TO 453+87
NET ℄ LENGTH = 5274.9
STA. 453B+87 TO 461B+24
NET ℄ LENGTH = 724.8
STA. 449B+00 - 453 B+87
E.C. = 306 C.Y.
F. = 1285 C.Y.
STA. 453B+87-457B+00
E.C. = 183 C.Y.
F. = 128 C.Y.
HAUL 23 C.Y. AHEAD
STA. 457B+00 - 461B+24.0
E.C. = 111 C.Y.
F. 120 C.Y.
STA. 455B+10
1-3' SLAB SPAN IN PLACE
GOOD CONDITION- TO REMAIN
352.3' V.C.
390' V.C.
STA. 461B+24
END OF U.S.P.W.H. PROJ. N.R.S. 525B (1935)
DRG. M-2923
STA. 457B+80
1-3'x2'x80' CONC. BOX CULV. IN PLACE
GOOD CONDITION
EXTEND - RT. 11.5' ONLY

From:	Wagoner, Kyle
To:	"Begley, Kylie M - DNR"
Cc:	"VanPrice, Kathie - DOT"
Subject:	RE: Campbellsport New Site? (Site 16) - WIS 67, Campbellsport (WisDOT 4090-06-00)
Date:	Friday, June 15, 2018 11:44:00 AM
Attachments:	Site #16 Pages from Phase_1_HazMat_Report.pdf Form 4400-225 Notification For Hazardous Substance Discharge (Non-Emergency) - Campbellport News (Site #16) WIS Hwy. 67 WisDOT #4090-06-00 Village of Campbellsport.msg

Good morning Kylie -

I have not heard of any pending LUST investigations at this site. AECOM's recent Phase 2 investigation results for the site were included with our release notification (see attached email). I've also attached site background info taken from Mead & Hunt's Phase 1 report for the WIS 67 project.

Please note, the WisDOT Phase 1 Hazmat Assessment Site Summary form included in the attached background info incorrectly names the site as "Site 16, Private Residence/Farm." We haven't seen any signs of farming at this site.

Don't hesitate to contact me again if you have any Q's or need anything else.

Kyle

Kyle Wagoner, P.G., CHMM
Project Manager
Environment
D 715.342.3038
Internal Cisco Extension 2103038
kyle.wagoner@aecom.com

AECOM
200 Indiana Avenue, Stevens Point, WI 54481
T 715.341.8110 F 715.341.7390

From: Begley, Kylie M - DNR [mailto:Kylie.Begley@wisconsin.gov]
Sent: Friday, June 15, 2018 11:16 AM
To: Wagoner, Kyle
Subject: RE: Campbellsport New Site? - WIS 67, Campbellsport (WisDOT 4090-06-00)

Kyle,

Thanks for reaching out. As Colin mentioned Campbellsport News is still a pending site, awaiting further information. I have tried to reach out to the Village to see if I could obtain any records regarding the historic UST on the property, but have thus far been unsuccessful. Colin thought there may had been discussion about further investigation at this location. Are you aware of any potential work?

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Kylie Begley
Phone: (920) 662-5429

Kylie.Begley@Wisconsin.gov

From: Schmenk, Colin R - DNR
Sent: Thursday, June 14, 2018 5:08 PM
To: Wagoner, Kyle <KYLE.WAGONER@aecom.com>
Cc: Begley, Kylie M - DNR <Kylie.Begley@wisconsin.gov>
Subject: RE: Campbellsport New Site? - WIS 67, Campbellsport (WisDOT 4090-06-00)

Good afternoon Kyle,
Since we last talked we hired a new hydrogeologist to work on DOT sites and this site is now in her region so I don't know exactly whats going on with it currently but it is currently a pending site (it's in a holding pattern while we wait for more information. The person who is now handling this project on the DNR's end is Kylie Begley (cc'd in this email). Her phone number is 920-662-5429. Reach out to her with any questions pertaining to this site.

Thank you and have a great night,

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Colin Schmenk
Hydrogeologist - Northeast Region Remediation & Redevelopment
Wisconsin Department of Natural Resources
2984 Shawano Ave
Green Bay, Wisconsin 54313
Phone: (920)-662-5149
Colin.Schmenk@wisconsin.gov

dnr.wi.gov

From: Wagoner, Kyle [mailto:KYLE.WAGONER@aecom.com]
Sent: Thursday, June 14, 2018 4:52 PM
To: Schmenk, Colin R - DNR <Colin.Schmenk@wisconsin.gov>
Subject: Campbellsport New Site? - WIS 67, Campbellsport (WisDOT 4090-06-00)

Collin-

Has DNR decided to create a new BRRTS listing for the Campbellsport News site (101 N. Fond du Lac Ave) you called me about a while ago after AECOM submitted a release notification?

Kyle

Kyle Wagoner, P.G., CHMM
Project Manager

Environment
D 715.342.3038
Internal Cisco Extension 2103038
kyle.wagoner@aecom.com

AECOM
200 Indiana Avenue, Stevens Point, WI 54481
T 715.341.8110 F 715.341.7390

From: Schmenk, Colin R - DNR [mailto:Colin.Schmenk@wisconsin.gov]
Sent: Thursday, April 12, 2018 11:16 AM
To: Wagoner, Kyle
Cc: VanPrice, Kathie - DOT
Subject: RE: Phase 1 Hazmat Assessment Report - WIS 67, Campbellsport (WisDOT 4090-06-00)

Thanks Kyle!

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Colin Schmenk
Hydrogeologist - Northeast Region Remediation & Redevelopment
Wisconsin Department of Natural Resources
2984 Shawano Ave
Green Bay, Wisconsin 54313
Phone: (920)-662-5149
Colin.Schmenk@wisconsin.gov

dnr.wi.gov

From: Wagoner, Kyle [mailto:KYLE.WAGONER@aecom.com]
Sent: Thursday, April 12, 2018 10:58 AM
To: Schmenk, Colin R - DNR <Colin.Schmenk@wisconsin.gov>
Cc: VanPrice, Kathie - DOT <Kathie.VanPrice@dot.wi.gov>
Subject: Phase 1 Hazmat Assessment Report - WIS 67, Campbellsport (WisDOT 4090-06-00)

Colin…At your request, I've uploaded the Phase 1 hazmat assessment report (2 files) for this WisDOT project to https://ftp.wi.gov/submittals/NER/

Please contact me again if you have any Q's or need anything else.

Kyle

Kyle Wagoner, P.G., CHMM
Project Manager
Environment
D 715.342.3038

Internal Cisco Extension 2103038
kyle.wagoner@aecom.com

AECOM
200 Indiana Avenue, Stevens Point, WI 54481
T 715.341.8110 F 715.341.7390

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Site 20

WIS 67 Right of Way

From:	Wagoner, Kyle
To:	"DNRRRNER@wisconsin.gov"
Cc:	DOT Hazmat Unit e-Mailbox (dothazmatunit@dot.wi.gov); VanPrice, Kathie - DOT; SENFELDS, DAVID
Subject:	Form 4400-225 Notification For Hazardous Substance Discharge (Non-Emergency Only) (WisDOT Project 4090-06-00)
Date:	Friday, March 30, 2018 4:43:00 PM
Attachments:	Form 4400-225 (WisDOT #4090-06-00).pdf 1927_Sanborn_Map_Site_20_WIS67.pdf Pace_Lab_Report_Site_20_B20-3_WIS67.pdf Phase_2.5_Site_Plan_Site_20_WIS67.pdf Phase_2.5_Tables_Site_20_WIS67_Campbellsport_(4090-06-00).pdf Soil_Boring_Log_B20-3_Site_20_WIS67.pdf
Importance:	High

Form 4400-225 Notification For Hazardous Substance Discharge (Non-Emergency Only)

The attached file is the filled-out form. Please open it to review the data.

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (R 06/17)

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from **(check one)**:

- (●) Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- ( ) Aboveground Petroleum Storage Tank System
- ( ) Dry Cleaner Facility
- ( ) Other - Describe: _____

ATTN DNR: **R & R Program Associate**

Date DNR Notified: 04/05/2018

1. Discharge Reported By

Name	Firm	Phone Number (include area code)
Kyle Wagoner	AECOM	(715) 342-3038

Mailing Address	Email
200 Indiana Ave, Stevens Point, WI 54481	kyle.wagoner@aecom.com

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.

WIS Hwy. 67 Right of Way (WisDOT Project 4090-06-00)

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60.

Next to 139 & 146 E. Main Street

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.

Village of Campbellsport

County	Legal Description:	WTM:
Fond Du Lac	NE ¼ of NE ¼ Section 13, Town 13 N, Range 18 (●) E ( ) W	X 658529 Y 348675

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Wisconsin Department of Transportation - BTS-ESS

☐ A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review DNR publication RR-055; and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using DNR Form 4400-237.

Contact Person Name (if different)	Phone Number	Email
Sharlene Te Beest	(608) 266-1476	dothazmatunit@dot.wi.gov

Mailing Address	City	State	ZIP Code
PO Box 7965, 5th floor	Madison	WI	53707-7965

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email

Mailing Address	City	State	ZIP Code

(continued)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- [x] VOCs
  - [ ] PCE
  - [ ] TCE
  - [ ] Other Chlorinated
  - [ ] Diesel
  - [ ] Fuel Oil
  - [x] Gasoline
  - [ ] Hydraulic Oil
  - [ ] Jet Fuel
- *(VOCs continued)*
  - [ ] Mineral Oil
  - [ ] Waste Oil
  - [ ] Petroleum-Unknown Type
- [ ] PAHs
- [ ] PCBs
- [ ] Cyanide
- [ ] Leachate
- [ ] Manure
- [ ] Metals
  - [ ] Arsenic
  - [ ] Chromium
  - [ ] Lead
  - [ ] Other: _____
- [ ] Pesticides: _____
- [ ] Fertilizer: _____
- [ ] RCRA Hazardous Waste: _____
- [ ] Other: _____
- [ ] Unknown

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- ___ Air Contamination
- ___ Co-mingled (Petroleum & Non-Petroleum)
- ___ Contamination in Fractured Bedrock
- ___ Contamination Within 1 Meter of Bedrock
- ___ Contaminated Private Well
- ___ Contaminated Public Well
- K Contamination in Right of Way
- ___ Fire Explosion Threat
- ___ Free Product
- K Groundwater Contamination
- ___ Off-Site Contamination
- ___ Sanitary Sewer Contamination
- ___ Storm Sewer Contamination
- ___ Sediment Contamination
- K Soil Contamination
- ___ Soil Gas Contamination
- ___ Sub-slab Vapor Contamination
- ___ Surface Water Contamination
- ___ Within 100 ft of Private Well
- ___ Within 1000 ft of Public Well

Other (specify): _____

Contamination was discovered as a result of:

- [ ] Tank closure assessment Date _____
- [x] Site assessment Date 03/13/2018
- [ ] Other - Describe: _____ Date _____

Lab results: [ ] Lab results will be faxed upon receipt [x] Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information:

Source

- [x] Tank
- [ ] Piping
- [ ] Dispenser
- [ ] Submersible Turbine Pump
- [ ] Delivery Problem
- [ ] Other (specify): _____

Cause

- [ ] Spill
- [ ] Overfill
- [ ] Corrosion
- [ ] Physical or Mechanical Damage
- [ ] Installation Problem
- [ ] Other (does not fit any of above)
- [x] Unknown

[ ] Does not apply.

Contact information to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (FAX: 920-662-5413); Attention -- R&R Program Associate: DNRRRNER@wisconsin.gov

Brown, Calumet, Door, Fond du Lac **(except City of Waupun - see South Central Region)**, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties

Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties

South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate: DNRRRSCR@wisconsin.gov

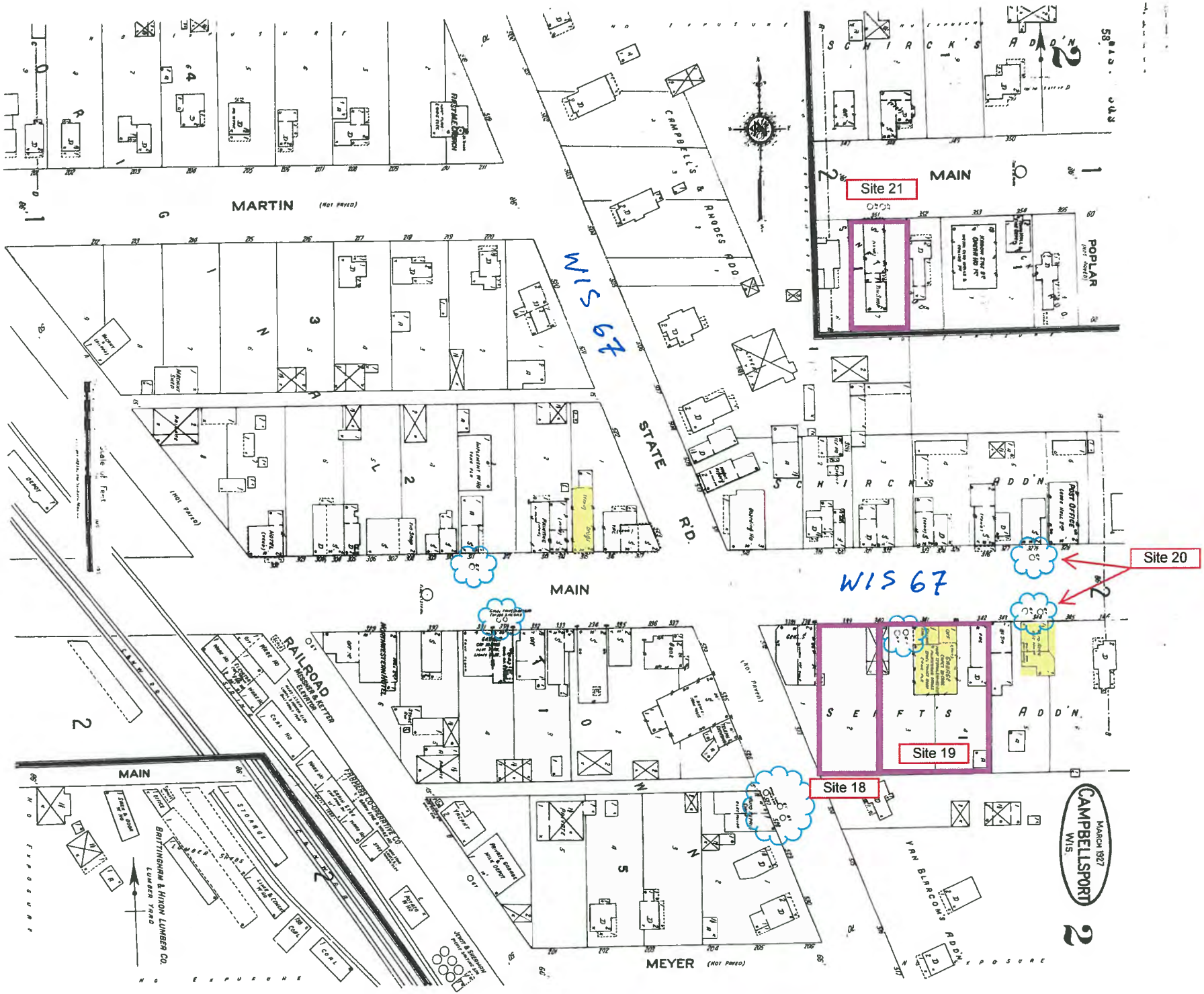
Columbia, Dane, Dodge, Fond du Lac **(City of Waupun only)**, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties

Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov

Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

West Central Region (FAX: 715-839-6076); Attention -- R&R Program Associate: DNRRRWCR@wisconsin.gov

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties


Site 21
Site 20
Site 19
Site 18
WIS 67
WIS 67
MAIN
MAIN
MAIN
MARTIN
STATE
RAILROAD
MEYER
POPLAR
CAMPBELLSPORT
WIS.
MARCH 1927
2

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

March 13, 2018

WIS 67 - CAMPBELLSPORT
SITE #20
B20-3
SOIL (19-20') : GW

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Dear Kyle Wagoner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Barton, AECOM

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

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-3 19-20' **Lab ID: 40165413006** Collected: 02/28/18 12:35 Received: 03/03/18 09:20 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
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<50.0**	ug/kg	120	50.0	2	03/07/18 06:50	03/07/18 15:35	71-43-2	W
Ethylbenzene	**930**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	100-41-4	
Methyl-tert-butyl ether	**<50.0**	ug/kg	120	50.0	2	03/07/18 06:50	03/07/18 15:35	1634-04-4	W
Naphthalene	**258**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	91-20-3	
Toluene	**102J**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	108-88-3	
1,2,4-Trimethylbenzene	**266**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	95-63-6	
1,3,5-Trimethylbenzene	**2120**	ug/kg	128	53.5	2	03/07/18 06:50	03/07/18 15:35	108-67-8	
m&p-Xylene	**1930**	ug/kg	257	107	2	03/07/18 06:50	03/07/18 15:35	179601-23-1	
o-Xylene	**<50.0**	ug/kg	120	50.0	2	03/07/18 06:50	03/07/18 15:35	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		2	03/07/18 06:50	03/07/18 15:35	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**4.2**	mg/kg	1.4	0.45	1	03/09/18 08:20	03/09/18 19:36	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.5**	%	0.10	0.10	1		03/09/18 16:21		

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60558672 WIS 67 PH 2.5 SITE 20
Pace Project No.: 40165413

Sample: B20-3 **Lab ID: 40165413009** Collected: 03/01/18 12:20 Received: 03/03/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.79**	ug/L	2.0	0.79	2		03/06/18 16:07	71-43-2	
Ethylbenzene	**14.4**	ug/L	2.0	0.79	2		03/06/18 16:07	100-41-4	
Methyl-tert-butyl ether	**<0.97**	ug/L	2.0	0.97	2		03/06/18 16:07	1634-04-4	
Naphthalene	**7.1**	ug/L	2.0	0.85	2		03/06/18 16:07	91-20-3	
Toluene	**1.3J**	ug/L	2.0	0.78	2		03/06/18 16:07	108-88-3	
1,2,4-Trimethylbenzene	**16.5**	ug/L	2.0	0.84	2		03/06/18 16:07	95-63-6	
1,3,5-Trimethylbenzene	**32.0**	ug/L	2.0	0.83	2		03/06/18 16:07	108-67-8	
m&p-Xylene	**26.9**	ug/L	4.0	1.6	2		03/06/18 16:07	179601-23-1	
o-Xylene	**<0.90**	ug/L	2.0	0.90	2		03/06/18 16:07	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		2		03/06/18 16:07	98-08-8	D3

DTW ~ 12.5'

REPORT OF LABORATORY ANALYSIS

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

Page 1 of 1

GSM

40165413

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:	AECOM
Branch/Location:	Stevens Point
Project Contact:	Kyle Wagner
Phone:	715-342-3058
Project Number:	60558672
Project Name:	WIS 67 Phase 2.5 Site 20
Project State:	WI
Sampled By (Print):	Dan Barton
Sampled By (Sign):	Dan Barton
PO #:	Regulatory Program:

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

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

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

Matrix Codes
A = Air, 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	Analyses Requested: PVOC + Naph	Lead / Moisture	Moisture	PVOC + Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
							F	A	A	B			
001	B20-1 2-3'	2/28/18	11:55	S			✓	✓					
002	B20-1 18-19'	2/28/18	12:10	S			✓		✓				
003	B20-2 3-4'	2/28/18	11:10	S			✓	✓					
004	B20-2 19-20'	2/28/18	11:25	S			✓	DUP	✓				
005	B20-3 1-2'	2/28/18	12:30	S			✓		✓				
006	B20-3 19-20'	2/28/18	12:35	S			✓	✓					
007	B20-4 3-4'	2/28/18	13:00	S			✓	✓					
008	B20-4 9-10'	2/28/18	13:10	S			✓		✓				
009	B20-3	3/1/18	12:20	W			✓ DUP			✓			

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:

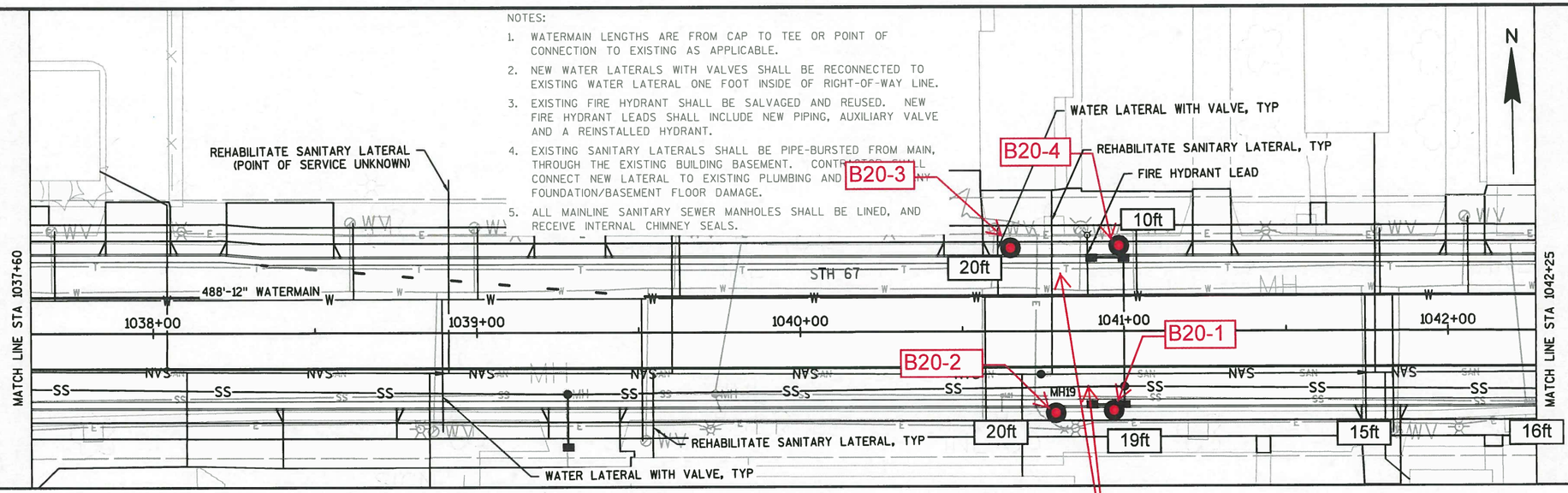
Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Dan Barton	3/2/18 10:20		
UPS	3/3/18 0920	Katie Johnson Pace	3/3/18 0920

PACE Project No.: 40165413
Receipt Temp = R01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present, Intact / Not Intact

NOTES:

1. WATERMAIN LENGTHS ARE FROM CAP TO TEE OR POINT OF CONNECTION TO EXISTING AS APPLICABLE.
2. NEW WATER LATERALS WITH VALVES SHALL BE RECONNECTED TO EXISTING WATER LATERAL ONE FOOT INSIDE OF RIGHT-OF-WAY LINE.
3. EXISTING FIRE HYDRANT SHALL BE SALVAGED AND REUSED. NEW FIRE HYDRANT LEADS SHALL INCLUDE NEW PIPING, AUXILIARY VALVE AND A REINSTALLED HYDRANT.
4. EXISTING SANITARY LATERALS SHALL BE PIPE-BURSTED FROM MAIN, THROUGH THE EXISTING BUILDING BASEMENT. CONTRACTOR SHALL CONNECT NEW LATERAL TO EXISTING PLUMBING AND [illegible] FOUNDATION/BASEMENT FLOOR DAMAGE.
5. ALL MAINLINE SANITARY SEWER MANHOLES SHALL BE LINED, AND RECEIVE INTERNAL CHIMNEY SEALS.



Site 20: WIS 67 Right of Way
Next to 139 & 146 E. Main Street

Legend

- Direct Push Boring (February 28, 2018)
- x ft — Depth to bottom of boring

Phase 2.5 Site Plan - Site No. 20
WIS 67 - Campbellsport

AECOM Project No. 60558672
WisDOT ID 4090-06-00

PROJECT NO: 4090-06-71	HWY: STH 67	COUNTY: FOND DU LAC	UTILITY PLAN	SHEET E

PRE_73

FILE NAME : X:\3230500\113975.02\TECH\CADD\40900600\SHEETSPLAN\023001_UP.DWG PLOT DATE : 1/31/2017 2:17 PM PLOT BY : DAVID YAHNKE PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 44

Table 1

Phase 2.5 Soil Sample Analytical Results

WIS 67 Right of Way (Site No. 20)
Next to 139/146 E. Main St. (WIS 67)
Village of Campbellsport, Fon du Lac County, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

			Soil Boring/Sample ID:	**B20-1**	**B20-1**	**B20-2**	**B20-2**	**B20-3**	**B20-3**	**B20-4**	**B20-4**
			Sample Depth (feet):	**2-3'**	**18-19'**	**3-4'**	**19-20'**	**1-2'**	**19-20'**	**3-4'**	**9-10'**
			PID Readings (i.u):	**1.9**	**2.0**	**1.9**	**2.0**	**2.2**	**810**	**2.0**	**2.0**
			Sample Date:	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**	**2/28/2018**
Analyte	**NR 720 Direct Contact RCLs**		**Soil-to-Groundwater Pathway RCL**	**Results**							
	Non-Industrial	**Industrial**									
PVOCs + Naph by WI MOD GRO (ug/kg)											
Benzene	1,600	7,070	5.1	<25	<25	<25	<25	<25	<50	<25	<25
Ethylbenzene	8,020	35,400	1,570	<25	<25	<25	<25	<25	930	<25	<25
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25	<25	<25	<25	<50	<25	<25
Naphthalene	5,520	24,100	658.2	<25	<25	<25	<25	<25	258	<25	<25
Toluene	818,000	818,000	1,107.2	<25	<25	<25	<25	<25	102J	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.2 (combined)	<25	<25	<25	<25	<25	**266**	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000		<25	<25	<25	<25	<25	**2,120**	<25	<25
m&p-Xylene	778,000	778,000	3,960 (combined)	<50	<50	<50	<50	<50	1,930	<50	<50
o-Xylene	434,000	434,000		<25	<25	<25	<25	<25	<50	<25	<25
Metals by EPA Method 6010 (mg/kg)											
Lead (total)	400	800	27.0	11.6	-	0.95J	-	-	4.2	6.2	-

Notes:

Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2017.
ug/kg = micrograms per kilogram
mg/kg - milligrams per kilogram
i.u. = instrument units
J: Estimated concentration at or above the LOD and below the LOQ
Bold result indicates NR 720 RCL exceedances (any).

Table 2

Phase 2.5 Groundwater Sample Analytical Results

Wis 67 Right of Way (Site No. 20)
Next to 139/146 E. Main St.
Village of Campbellsport, Fon du Lac County, Wisconsin

AECOM Project No. 60558672
WisDOT Project No. 4090-06-00

		Soil Boring ID:	**B20-3**
		Depth to Water (ft.):	**12.15**
		Sample Date:	**3/1/2018**
Analyte	**NR 140 Standards**		**Results**
	ES	**PAL**	
PVOCs + Naph by WI MOD GRO (µg/L)			
Benzene	5	0.50	<0.79
Ethylbenzene	700	140	14.4
Methyl-tert-butyl ether	60	12	<0.97
Naphthalene	100	10	7.1
Toluene	800	160	1.3J
1,2,4-Trimethylbenzene	480 (combined)	96 (combined)	16.5
1,3,5-Trimethylbenzene			32
m&p-Xylene	2,000 (combined)	400 (combined)	26.9
o-Xylene			<0.90

Notes:

All results were below WI regulatory standards.
Water quality standards taken from Chapter NR 140, Wis Admin. Code, February 2017.
ES: Enforcement Standard.
PAL: Preventative Action Limit.
ug/L = micrograms per liter.
J: Estimated concentration at or above the LOD and below the LOQ.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WIS 67 Right-of-Way (STH 110, 20)		B20-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Mitch Last Name: Pantil Firm: GESTRA	02/28/2018	02/28/2018	Direct-Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
NE 1/4 of NE 1/4 of Section 13, T 13 N, R 19
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du lac		Campbellsport

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0-1' Crushed road surface				1.9						
				1-5' medium to course sand w/ pebbles and gravel (Fill)	GP			2.2						
				5-10' tan-light brown silty clay w/some pebbles	CL			2.2						
				10-15' SAA	CL			2.2						
								2.2						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Joel Burton Firm AECom

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				15-20' Gray - dark gray hard clay w/some silt and fractured rock tob @ 20'	CL			70 371 810						Strong petroleum odor present refusal @ 20'

Wisconsin Department of Natural Resources

Environmental Cleanup & Brownfields Redevelopment

BRRTS on the Web

Click the Location Name below to view the Location Details page for this Activity. Other Activities, if present, may be viewed from that page.

Basic Search > **Search Results** > **09-20-581189 Activity Details**

09-20-581189 STH 67 ROW - WI DOT

NO ACTION REQ

Location Name (Click Location Name to View Location Details)			County	WDNR Region
STH 67 ROW - WI DOT			FOND DU LAC	NORTHEAST
Address			Municipality	
STH 67 ROW - WI DOT			CAMPBELLSPORT	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
				CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
				UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR			2018-04-05	2018-05-08	2018-05-08

Comments

WISDOT PROJECT #4090-06-00 SITE 20 ENTIRE DOCUMENTATION FOR ACTIVITY UNDER THE DOCUMENTS MODULE

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
No	No	No	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
2018-04-05	1	Notification	
2018-04-05	28	Phase I Environmental Site Assessment Rpt Received	
2018-05-08	801	No Detect or Insignificant Contamination	

Other Documents and Images
Not Linked to Actions Above
Click File Name to Download or Open

Category	File Name	Size (bytes)	Type
Site File	0920581189_SITE_FILE_Part_1.pdf	212679021	pdf
Site File	0920581189_SITE_FILE_Part_2.pdf ENTIRE FILE	186427994	pdf

Who

Role	Name/Address

For Additional Information, Please Contact

DENISE DANELSKI 920-662-5494 denise.danelski@wisconsin.gov

BRRTS data comes from various sources, both internal and external to DNR. There may be omissions and errors in the data and delays in updating new information. Please see the disclaimers page for more information. We welcome your Feedback.

AECOM

About AECOM

AECOM is built to deliver a better world. We design, build, finance, and operate infrastructure assets for governments, businesses, and organizations in more than 150 countries. As a fully integrated firm, we connect knowledge and experience across our global network of experts to help clients solve their most complex challenges. From high-performance buildings and infrastructure, to resilient communities and environments, to stable and secure nations, our work is transformative, differentiated and vital. A Fortune 500 firm, AECOM companies have annual revenue of approximately US$18 billion. See how we deliver what others can only imagine at aecom.com and @AECOM.

Contact
Kyle Wagoner, P.G., CHMM
kyle.wagoner@aecom.com
T 715.342.3038