

Wisconsin Department of Transportation

Phase 2.5 Environmental Sampling Investigation

Bob's Auto LUST Site, USH 8 Culvert Village of Tony, Rusk County, Wisconsin

WisDOT Project ID 1580-04-04 WDNR BRRTS No. 03-55-000774 AECOM Project No. 60631378

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Bob's Auto LUST Site Phase 2.5 Environmental Sampling Investigation

USH 8 Culvert Village of Tony, Rusk County, Wisconsin

WisDOT Project No. 1580-04-04 WDNR BRRTS No. 03-55-000774 AECOM Project No. 60631378

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Acronyms and Abbreviations

μg/kg micrograms per kilogram bgs Below ground surface

BRRTS Bureau for Remediation and Redevelopment Tracking System
D-C RCL NR 720 Non-Industrial Direct Contact Residual Contaminant Level

IDW Investigation derived waste

LUST Leaking underground storage tank

mg/kg milligram per kilogram mg/L milligrams per liter

Pace Pace Analytical Services, Inc.

Phase 2.5 Phase 2.5 Environmental Sampling Investigation

PID Photoionization detector

PVOC Petroleum volatile organic compounds RCL NR 720 Residual Contaminant Level

RCL-gw NR 720 Soil-to-Groundwater pathway Residual Contaminant Level

RCMP Rigid corrugated metal pipe

ROW Right of way

TCLP Toxicity Characteristic Leaching Procedure

VES Veolia Environmental Services

WDNR Wisconsin Department of Natural Resources WisDOT Wisconsin Department of Transportation

1.0 Executive Summary

This report summarizes the results of a Phase 2.5 Environmental Sampling Investigation (Phase 2.5) performed for the USH 8 improvement project in Rusk County. The site of concern was Bob's Auto located at W6217 USH 8 in the Village of Tony, which has a closed leaking underground storage tank (LUST) case (BRRTS No. 03-55-000774). The LUST site responsible party is Owen Martin of Tony, Wisconsin. The work was completed in general accordance with Wisconsin Department of Transportation (WisDOT) Facilities Development Manual Procedure 21-35-12.

The purpose of the Phase 2.5 was to investigate for the presence and extent of petroleum hydrocarbon contamination within planned construction limits at the location of an existing 24-inch-diameter rigid corrugated metal pipe (RCMP) culvert under the highway on the west side of the USH 8 and Walnut Street intersection. The culvert is located immediately downgradient (east) of the Bob's Auto LUST site and will be replaced during the USH 8 improvement project.

On August 20, 2020, six direct-push soil borings were advanced next to the culvert within existing USH 8 right of way (ROW) to an approximate depth of 6 feet below ground surface (bgs), which was the anticipated depth of construction excavation. Soil samples were collected from each boring for field screening and laboratory analysis.

Field and analytical results for the soil samples collected during the Phase 2.5 indicated the following:

- The native soil type is generally silty and sandy clay beneath a cover of approximately 2 feet of highway pavement (asphalt over concrete) and base course fill.
- The depth to groundwater beneath the project site is greater than the estimated maximum depth of construction excavation at the culvert location. The need for excavation dewatering during the future culvert replacement is not likely.
- A very localized presence of benzene contaminated soil exceeding the NR 720 Soil-to-Groundwater
 pathway Residual Contaminant Level (RCL-gw) for benzene was detected at a depth of 2 to 3 feet
 bgs in Boring DP-1, which is located on the west side of the north end of the culvert (see Figure 2).
 The estimated quantity of benzene contaminated soil is less than 10 cubic yards.
- A very localized presence of lead contaminated soil exceeding the NR 720 Non-Industrial Contact Residual Contaminant Level (D-C RCL) and RCL-gw for total lead was detected at a depth of 3 to 4 feet bgs in Boring DP-3, which is located on the east side of the south end of the culvert (see Figure 2). The toxicity characteristic leaching analysis procedure (TCLP) analysis indicated the lead contamination is non-hazardous for the Toxicity Characteristic. The estimated quantity of lead contaminated soil is less than 10 cubic yards.

Based on the Phase 2.5 results, further site investigation is not warranted. A Notice to Contractor "Soil Contamination Within Project Limits" is warranted for the contract special provisions for the apparent localized presence of benzene and lead contaminated soil.

The most practicable and lowest cost option for managing benzene and lead contaminated soil excavated during the future culvert replacement is to obtain an NR 718.12 low-hazard exemption approval from the Wisconsin Department of Natural Resources (WDNR). Consequently, the contaminated material could be beneficially reused as fill soil at the same locations from where it is excavated. Otherwise, the excavated soil could be loaded and transported to a regional licensed landfill for off-site disposal.

2.0 General Information

2.1 Project Background

The USH 8 improvement project includes replacement of an existing 24-inch-diameter RCMP culvert at Station 661+36 on the west side of the USH 8 and Walnut Street intersection in Tony. The culvert is located immediately downgradient (east) of the LUST site at Bob's Auto. Hazardous substances released from the site included leaded and unleaded gasoline. Available LUST case file information indicates that residual petroleum contaminated soil and groundwater will remain beneath the USH 8 ROW after case closure by the WDNR.

WisDOT is planning to replace the existing culvert with a 24-inch-diameter reinforced concrete culvert pipe (RCCP) and reconstruct a nearby inlet and manhole to depths not more than 1 foot below existing elevations.

Significant project dates include:

PS&E: November 2022
Let: April 11, 2023
Construction: 2023 (estimated)

A USH 8 as-built plan obtained from WisDOT for a previous construction shows the bottom of the existing culvert is approximately 4.2 feet bgs. Consequently, future construction excavation necessary to replace the culvert and reconstruct the inlet and manhole is estimated not to exceed a depth 6 feet bgs.

Available LUST case file information for Bob's Auto obtained from the WDNR indicated that depths to groundwater beneath USH 8 near the existing culvert ranged between 9.04 and 9.71 feet bgs, as measured in Monitoring Wells MW-8 and MW-14 on November 8, 2018. Therefore, the bottom of the construction excavation should not intersect the petroleum contaminated groundwater plume passing beneath the highway ROW. Monitoring wells associated with Bob's Auto LUST site were permanently abandoned in May 2020.

The LUST case was closed by the WDNR in June 2020. Post-closure Continuing Obligations were placed on the site for the following:

- Groundwater contamination is present at or above Chapter NR 140 Enforcement Standards.
- Residual soil contamination exists that must be properly managed, should it be excavated or removed.

2.2 Scope of Services

The completed Phase 2.5 scope of services included:

 Advancement of six direct-push soil borings within project limits next to the existing culvert to a maximum depth of 6 feet bgs.

- Visual classification of the soil samples obtained from borings and field screening of samples for volatile organic vapors using a photoionization detector (PID). Descriptions of soil types and PID readings were recorded on WDNR soil boring logs (WDNR Form 4400-122).
- Collection of up to two soil samples per boring, depending on sample recovery quantities, and submittal of the samples to a WDNR certified laboratory for analysis of petroleum volatile organic compounds (PVOCs), naphthalene, and lead (total).
- Laboratory analysis of one soil sample having a high-level, total lead result greater than 100 milligrams per kilogram (mg/kg) for leachable lead by the TCLP.
- Collection of one representative soil sample from soil cuttings for waste characterization. Submitted
 the waste characterization sample to the laboratory for Veolia Environmental Services (VES)
 Protocol T1 analysis.
- Borehole closure in accordance with the requirements of Wisconsin Administrative Code,
 Chapter NR 141. The surface pavement was patched with cold-patch asphalt where soil borings penetrated the highway.
- Investigation derived waste (IDW) (soil cuttings) generated at the site was containerized and placed in a local temporary storage area until pickup at a later date.
- Submittal of an IDW pickup request to VES.
- Preparation of this report documenting the Phase 2.5 investigation and results.

2.3 Site Information

General site information includes:

Location: Southeast 1/4 of the Southeast 1/4, Section 28, Township 35 North, Range 5 West

(see Figure 1)

Address: W6217 USH 8, Tony, Wisconsin

County: Rusk

USH 8 Stationing (approximate): Station 661+36 (existing culvert)

GPS Coordinates: Latitude 45.48° N

Longitude 90.99° W

WTM Coordinates: X 442474, Y 557064

2.4 Description of Field Investigation

On August 20, 2020, six direct-push soil borings (DP-1 and DP-6) were advanced at locations straddling the existing culvert beneath USH 8 ROW (see Figure 2). No soil borings were advanced beyond ROW limits. Soil boring depths were based on an anticipated construction excavation depth of 6 feet bgs. The borings were advanced using a truck-mounted hydraulic direct-push drilling rig operated by Geiss Soil & Samples, LLC, Merrill, Wisconsin. Site photographs are presented in Appendix A. Copies of Bentley gINT® boring logs (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.

Up to two soil samples were collected from each boring for laboratory analysis by Pace Analytical Services, Inc. (Pace). The samples submitted for laboratory analysis were collected from the direct contact zone (uppermost 4 feet) and near the borehole bottom because PID readings did not detect the presence of volatile vapors. Soil sampling procedures are described in Appendix D.

After completion of sampling, the borings were abandoned with bentonite in general accordance with the requirements of Wis. Admin. Code Chapter NR 141. The surface pavement was patched with cold-patch asphalt where soil borings penetrated the highway. Copies of completed borehole abandonment forms (WDNR Form 3300-005) are presented in Appendix E.

Soil cuttings generated during borehole advancement were containerized in one 5-gallon plastic bucket with snap-on lid, identified with a WisDOT label, and temporarily stored at the Village of Tony municipal building located on Maple Street. AECOM emailed a non-hazardous IDW pickup request to VES with supporting documentation on September 16, 2020. AECOM received an email from Zach Davis of VES that the IDW bucket would be picked up on September 29, 2020. IDW disposal request documentation is presented in Appendix F.

2.5 Subsurface Conditions

Approximately 2 feet of highway pavement (asphalt over concrete) and base course fill were penetrated by the direct-push rig. Underlying native soil generally included brown silty and sandy clay from approximately 2 feet bgs to the boring termination depths.

Field screening results did not indicate the presence of volatile organic vapor, odor, or visible staining in any of the soil borings.

Groundwater was not encountered in the boreholes during advancement.

2.6 Analytical Parameters and Results

Analytical parameters were selected in general accordance with WisDOT and WDNR guidance for investigations of LUST sites. The soil samples submitted to Pace were analyzed for PVOCs plus naphthalene and total lead. Analytical results for soil samples were compared against Wisc. Admin. Code, Chapter NR 720 non-industrial direct contact and groundwater pathway residual contaminant levels (RCLs), updated December 2018. Standard analytical procedures are discussed in Appendix G. Analytical results for soil samples are summarized in Table 1. Copies of the Pace laboratory report and sample chain of custody form are provided in Appendix H.

One soil sample collected from Boring DP-3 (3 to 4 feet bgs) having a total lead result greater than 100 milligrams/kilograms (mg/kg) was analyzed by Pace for leachable lead using the TCLP method.

One representative soil sample was collected from soil cuttings generated during borehole advancement for the purpose of waste characterization. The sample was analyzed by Pace for Veolia Protocol T1 analysis, including free liquids, flash point, lead (total), benzene (total), diesel range organics and gasoline range organics.

2.6.1 Soil

Benzene was detected at a concentration of 57.9 μ g/kg in the soil sample collected from Boring DP-1 (2 to 3 feet bgs), which exceeded the RCL-gw of 5.2 μ g/kg for benzene.

PVOCs and naphthalene were reported below detection limits in all soil samples collected from Borings DP-2 through DP-6.

Total lead was detected at 529 mg/kg in the soil sample collected from Boring DP-3 (3 to 4 feet bgs), which exceeded the D-C RCL of 400 mg/kg and RCL-gw of 27 mg/kg for lead.

The TCLP lead result for the soil sample collected from Boring DP-3 (3 to 4 feet bgs) was 0.18 milligrams per Liter (mg/L), which indicated the lead in soil was non-hazardous for the toxicity characteristic.

Total Lead was reported below the RCL-gw of 27 mg/kg for lead in all soil samples collected from Borings DP-1, DP-2, DP-4, DP-5, and DP-6.

2.6.2 Waste Characterization

Laboratory analytical results for waste characterization (Veolia Protocol T1) were below Wisconsin regulatory standards and confirmed that containerized soil cuttings generated by drilling and sampling were non-hazardous solid waste.

2.7 Conclusions and Recommendations

Field and analytical results for the soil samples collected during the Phase 2.5 indicated the following:

- The native soil type is generally silty and sandy clay beneath a cover of approximately 1 to 2 feet of highway pavement (asphalt over concrete) and base course fill.
- The depth to groundwater beneath the project site is greater than the estimated maximum depth of construction excavation at the culvert location. The need for excavation dewatering during the future culvert replacement is not likely.
- A very localized presence of benzene contaminated soil exceeding the RCL-gw for benzene was
 detected at a depth of 2 to 3 feet bgs in Boring DP-1, which is located on the west side of the north
 end of the culvert (see Figure 2). The estimated quantity of benzene contaminated soil is less than
 10 cubic yards.
- A very localized presence of lead contaminated soil exceeding the D-C RCL and RCL-gw for total lead was detected at a depth of 3 to 4 feet bgs in Boring DP-3, which is located on the east side of the south end of the culvert (see Figure 2). The TCLP analysis indicated the lead contamination is non-hazardous for the Toxicity Characteristic. The estimated quantity of lead contaminated soil is less than 10 cubic yards.

Based on the Phase 2.5 results, further site investigation is not warranted. A notice to contractor "Soil Contamination Within Project Limits" is warranted for the contract special provisions with respect to the apparent localized presence of benzene and lead contaminated soil.

The most practicable and lowest cost option for managing benzene and lead contaminated soil excavated during the future culvert replacement is to obtain an NR 718.12 low-hazard exemption approval from the WDNR. Consequently, the contaminated material could be beneficially reused as fill soil at the same locations from where it is excavated. Otherwise, the excavated soil could be loaded and transported to a regional licensed landfill for off-site disposal.

3.0 Limitations

AECOM's scope of services was limited to performing a Phase 2.5 at the location of a proposed culvert replacement within the USH 8 ROW adjacent to the Bob's Auto LUST site.

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 opinion 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.

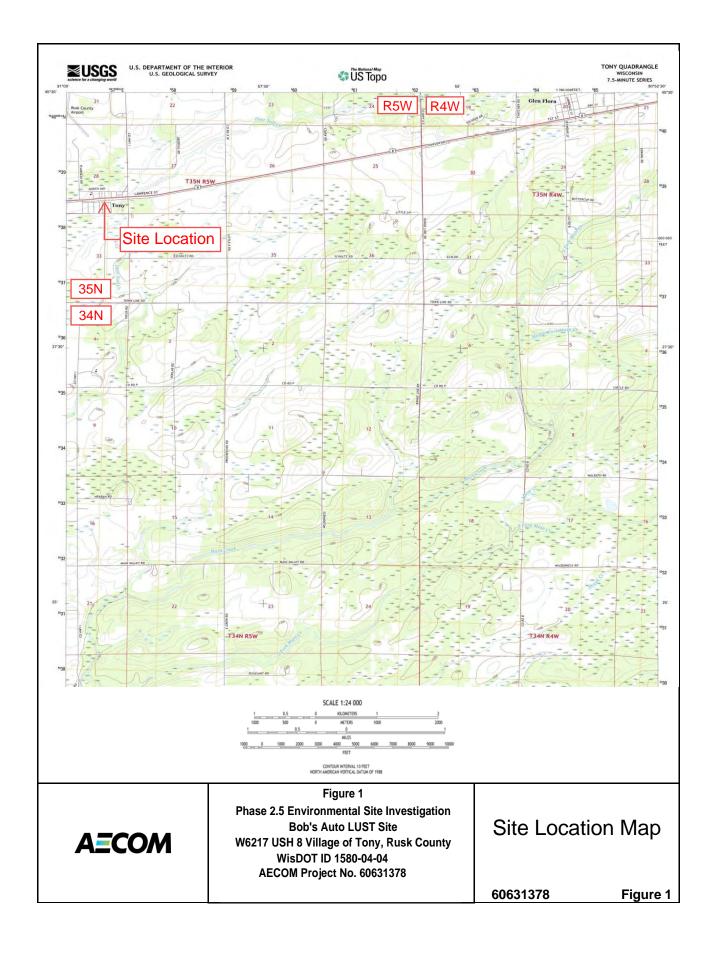
4.0 References

U.S. Geological Survey. Tony, Wis., 7.5'-Minute Quadrangle.

Wisconsin Department of Natural Resources Remediation and Redevelopment Program, RCL spreadsheet, Updated December 2018.

Figures





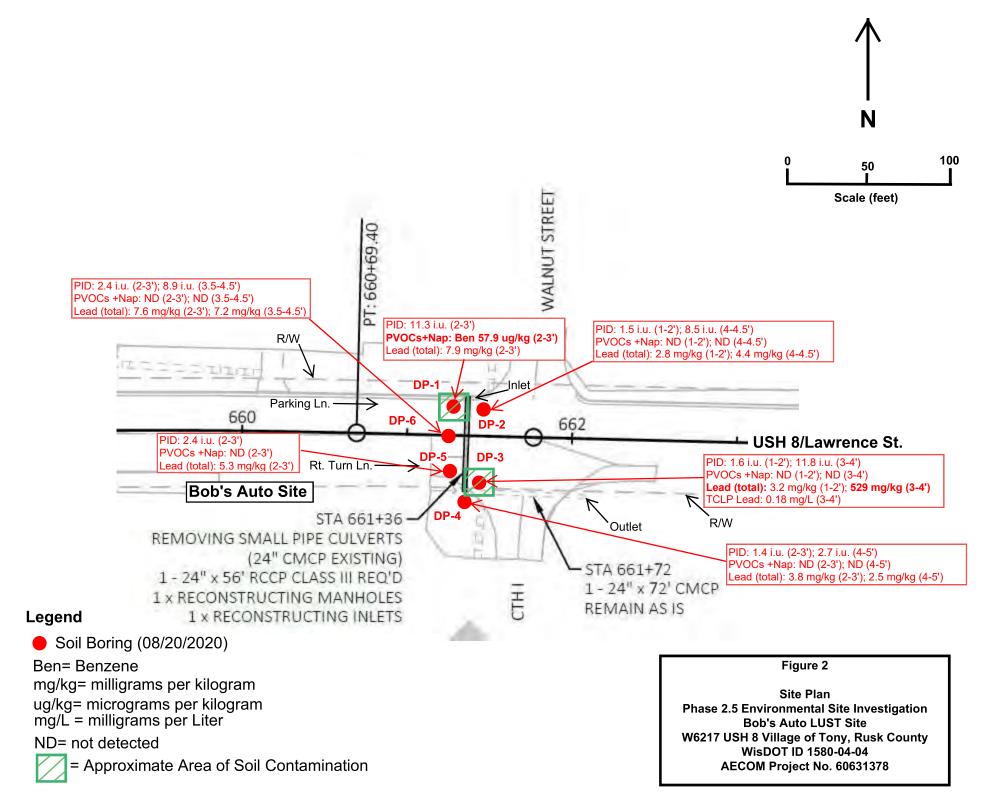


Table 1 Soil Sample Analytical Results



Table 1 Phase 2.5 Soil Sample Analytical Results Bob's Auto LUST Site W6217 USH 8, Village of Tony, Rusk County AECOM Project No. 60631378 WisDOT ID 1580-04-04

			Sample ID:	DP-1	DP-2	DP-2	DP-3	DP-3	DP-4	DP-4	DP-5	DP-6	DP-6	WC-082020	
			Approximate Sample Depth (feet):	(2-3')	(1-2')	(4-4.5')	(1-2')	(3-4')	(2-3')	(4-5')	(2-3')	(2-3')	(3.5-4.5')	-	
			PID Readings (i.u.):	11.3	1.5	8.5	1.6	11.8	1.4	2.7	2.4	2.4	8.9		
			Sample Date:	8/20/2020	8/20/2020	8/20/2020	8/20/2020	8/20/2020	8/20/2020	8/20/2020	8/20/2020	8/20/2020	8/20/2020	8/20/2020	
	NR 720 Direct	Contact RCI s	Gampie Bate.	0/20/2020	0/20/2020	0/20/2020	0/20/2020	0/20/2020	0/20/2020	0/20/2020	0/20/2020	0/20/2020	0/20/2020	0/20/2020	
Analyte			NR 720						Results						
Í	Non-Industrial	Industrial	Soil-to-Groundwater Pathway RCL												
PVOCs + NAPH (μg/kg)															
Benzene	1,600	7,070	5.2	57.9 J	<25	<25	<25	<25	<25	<25	<25	<25	<25	N/A	
Ethylbenzene	8,000	35,400	1,600	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	N/A	
Methyl-tert-butyl ether	63,800	282,000	27	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	N/A	
Naphthalene	5,520	24,100	660	<27.3	<27.3	<27.3	<27.3	<27.3	<27.3	<27.3	<27.3	<27.3	<27.3	N/A	
Toluene	818,000	818,000	1,100	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	N/A	
1,2,4-Trimethylbenzene	219,000	219,000	1,400	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	N/A	
1,3,5-Trimethylbenzene	182,000	182,000	1,400	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	N/A	
m&p-Xylene	778,000	778,000		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	N/A	
o-Xylene	434,000	434,000		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	N/A	
Total Metals by EPA Method 6010 (mg/kg)	1														
Lead	400	800	27.0	7.9	2.8	4.4	3.2	529	3.8	2.5	5.3	7.6	7.2	9.5	
TCLP Metals by EPA Method 6010/3010/1311 (mg/l	-)														
Lead								0.18							
Waste Characterization															
Flashpoint (1010 Flashpoint, closed cup) deg. F				N/A	>200										
Free Liquids (9095 Paint Filter Liquid Test) no units				N/A	Pass										
Percent Moisture				16.4	4.6	13.9	6.0	12.1	10.3	7.1	11.3	16.6	19.4	16.7	
Diesel Range Organics (mg/kg)				N/A	43.1										
Benzene (µg/kg)	1,600	7,070	5.2	N/A	<25										
Ethylbenzene (μg/kg)	8,000	35,400	1,600	N/A	<25										
Gasoline Range Organics (mg/kg)				N/A	10.9										
Methyl-tert-butyl ether (µg/kg)	63,800	282,000	27	N/A	<25										
Toluene (µg/kg)	5,520	24,100	660	N/A	<25										
1,2,4-Trimethylbenzene (µg/kg)	818,000	818,000	1,100	N/A	31.9 J										
1,3,5-Trimethylbenzene (µg/kg)	219,000	219,000	1,400	N/A	<25										
Xylene, total (μg/kg)	182,000	182,000	1,400	N/A	<75										
m&p-Xylene (μg/kg)	778,000	778,000		N/A	<50										
o-Xylene (μg/kg)	434,000	434,000		N/A	<25										

Notes:

- 1. Non-Industrial and Industrial Not-to-Exceed Direct-Contact Residual Contaminant Levels taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2018.
- 2. Soil-to-Groundwater Pathway Residual Contaminant Level, DF = 2, taken from the WDNR's NR 720 RCLs spreadsheet, updated December 2018.
- 3. μg/kg = micrograms per kilogram
- 4. mg/kg milligrams per kilogram
- 5. i.u. = instrument units
- 6. Bold result indicates NR 720 RCL exceedance (any).
- 7. J = Estimated concentration at or above the LOD and below the LOQ.
- 8. Ambient air PID reading= 1.7
- 9. Landfill limit for TCLP lead is 5.0 mg/L.

Appendix A Photograph Log







Site Name: Bob's Auto LUST Site

Site Location: USH 8, Village of Tony, Rusk County

Project No. 60631378

Photo No.

Date:

8/20/2020

Direction Photo Taken:

Northeast

Description:

USH 8 intersection at Walnut Street/County I



Photo No.

2

Date: 8/20/2020

Direction Photo Taken:

Northeast

Description:

Orange cone denotes location of storm culvert under USH 8.







Site Name: Bob's Auto LUST Site

Site Location: USH 8, Village of Tony, Rusk County

Project No. 60631378

Photo No.

3

Date: 8/20/2020

Direction Photo Taken:

Southeast

Description:

USH 8 intersection at Walnut Street/County I; orange cone denotes location of storm culvert under USH 8.



Photo No.

4

Date: 8/20/2020

Direction Photo Taken:

Southeast

Description:

Direct-push rig advancing a soil boring at the northwest corner of the USH 8 intersection of Walnut Street/County I.







Site Name:Bob's Auto LUST Site

Site Location: USH 8, Village of Tony, Rusk County

Project No. 60631378

Photo No.

5

Date: 8/20/2020

Direction Photo Taken:

Northeast

Description:

Direct-push rig advancing soil borings in the right turn lane at the USH 8 intersection of Walnut Street/ County I



Photo No.

o No. Date:

6 8/20/2020

Direction Photo Taken:

Not Applicable

Description:

Typical subsurface soil recovered by direct-push sampler



Appendix B Soil Boring Logs



SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Watershed/Wastewater Waste Management Route To: Other Remediation/Redevelopment 1 of Page Facility/Project Name License/Permit/Monitoring Number Boring Number DP-1 USH8 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method 8/20/2020 8/20/2020 Direct Push WI Unique Weil No. Common Well Name DNR Well ID No. Final Static Water Level Surface Elevation Borehole Diameter 2.0 inches Feet MSL Feet MSL Local Grid Origin (estimated:) or Boring Location Local Grid Location State Plane N, S/C/N \square N 11 T 35 N,R 5 W SE 28. Long Feet □s \square w 1/4 of SE 1/4 of Section Feet Civil Town/City/ or Village Facility ID County Code County Rusk 55 Village of Tony Sample Soil Properties Soil/Rock Description Recovered (in) Compressive Strength Depth In Feet Blow Counts ength Att. And Geologic Origin For Moisture Content Diagram S Plasticity Graphic Each Major Unit Liquid Limit SCS P 200 Well g Light brown to brown, silty clay, very soft, high plasticity, -0.5 1.5 1.6 3.0 No recovery 11.3 Sample -3.5 4.0 4.5 5.0 5.5 6.0 End of Boring at 6.0 feet I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature **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.

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Watershed/Wastewater Route To: Waste Management Other Remediation/Redevelopment Page Facility/Project Name License/Permit/Monitoring Number Boring Number DP-2 USH8 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method 8/20/2020 8/20/2020 Direct Push Common Well Name Final Static Water Level Borehole Diameter WI Unique Well No. DNR Well ID No. Surface Elevation 2.0 inches Feet MSL Feet MSL Local Grid Location Local Grid Origin Boring Location Lat State Plane S/C/N \square N 11 \square w SE 28. т 35 □s 1/4 of SE N.R 5 W Long 1/4 of Section Feet Civil Town/City/ or Village Facility ID County Code County 55 Rusk Village of Tony Sample Soil Properties Length Att. & Recovered (in) Soil/Rock Description In Feet Blow Counts Compressive Length Att. And Geologic Origin For Comments Number and Type Moisture Content Plasticity Diagram Strength Graphic Each Major Unit Liquid Limit Depth | SC P 200 Well <u>g</u> 문 Asphalt, concrete, gravel, fill material 1.0 1.5 Sample Dark brown, silty sandy clay, very soft, high plasticity, 2.5 6.9 3.0 3.5 8.5 Sample No Recovery 5.0 5.5 6.0 End of Boring at 6.0 feet I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature **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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

200 Indiana Avenue, Stevens Point, Wisconsin 54481

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Rout			astewater 🗌 Redevelopment 🗵	3	Waste N	_	ement											
				-			_		_							Dogg	· 1	of	1		
Facility	y/Projec	t Name	9					License/F	ermit/	Monit	oring	Nur	mber	1	Boring	Page Numbe		UI			
USH															DP-3						
Boring	Drilled	IBy: N	lame of	crew chief	(first, last) ar	nd Firm		Date Drii	ling St	arted			Dat	Date Drilling Completed				Drilling Method			
Gei	~								8/20/	เวกวก	١			8/20/2020				Direct Push			
	ique VV	el No.		IDNR Wa	ITID No.	Common Weil Na	me	Final Sta				75	Surface	Elevat		.020	Bo		Diameter		
								Feet MSL					Feet MSL				2.0 inches				
	Grid Or	igin	(es	timated:		ng Location							u l	Local Grid Location							
State			- ,		,	E S/C/N		Lat				11					E				
SE Facility		of SE	= 1.	/4 of Section	n 28, unty	T 35 N,R 5	VV C	Long		Civil	Iwol	n/Cit	y/ or V	/Illage	reet	5			eet 🗌 W		
Rusk 55 Village of Tony																					
San	ple			,						T	Ť				Soil	Prope	rties				
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Eac	n Major Unit			CS	Graphic		Diagram	_	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	8	RQD/ Comments		
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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

Signature

SOIL BORING LOG INFORMATION

Department of Natural Resources Form 4400-122 Rev 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Redevelopment Other Page of Facility/Project Name License/Permit/Monitoring Number Boring Number DP-4 USH8 Boring Drilled By: Name of crew chief (first, last) and Firm Drilling Method Date Drilling Completed Date Drilling Started 8/20/2020 8/20/2020 Direct Push Borenole Diameter Common Well Name WI Unique Well No. DNR WALID No. Final Static Water Level Surface Elevation 2.0 inches Feet MSL Feet MSL Local Grid Location Local Grid Origin (estimated: Boring Location Lat E S/C/N State Plane N, \square N *1 \square w SE 28, т 35 N,R 5 W Long □s 1/4 of SE 1/4 of Section Feet Feet Facility ID Civil Town/City/ or Village County Code County 55 Rusk Village of Tony Sample Soil Properties Length Att. & Recovered (in) Soil/Rock Description Depth In Feet Compressive Blow Counts And Geologic Origin For Number and Type Moisture Strength Diagram Content Plasticity Graphic Each Major Unit Liquid Limit SCS P 200 Well S₂ Light brown, silty clay, very soft, high plasticity 0.5 1.0 1.4 1.5 2.0 14 Sample 2.5 3.0 Brown, sandy silt, dry, unconsolidated, trace gravel 1.5 -3.5 4.0 -4.5 5.0 No Recovery 2.7 Sample 5.5 -6.0 End of Boring at 6.0 feet I hereby certify that the information on this form is true and correct to the best of my knowledge.

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.

200 Indiana Avenue, Stevens Point, Wisconsin 54481

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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						Indiana A	venue,	Steven	Point,	Wisco	nsin 54	481				*					

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.

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	-		Eacl	h Major Unit			CS	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	8	RQD/ Comments
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I here	by certi	fy that	theinfo	ormation	on this f	orm is tr	ue and correct to	the be	est of my kr	nowled	ge.	•				•		•	
Signa	ture /	11	-4	70-1	<		Firm	AE	COM										
		H	<u> </u>	(she	a)			200	Indiana Av	renue, :	Stevens	Point,	Wisco	nsin 544	1 81				*

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.

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 protocol.

Groundwater samples were not collected from the site.

Appendix E Borehole Abandonment Forms



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

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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.

_	Route to:					
☐ Verification Only of Fill and Seal	Drinking Water		Vatershed/Watershed/Watershed	astewater		tion/Redevelopment
	Waste Manageme	nt L	Other:			
1. Well Location Information		2. Facility	Owner Inf	ormation		
	Hicap #	Facility Name	Bob's	Atol	UST S	site
Rusk Removed Well				710010	,,,,,	7110
Lattitude / Longitude (Degrees and Minutes) Method	d Code (see instructions)	Facility ID (FI	D or PWS)			
'N	P-1	License/Perm	nit/Monitoring	#		
·w	ハーエーー	-				
	nship Range TE	Original Well				
	85 N 5 NW	Wis	~~			
Well Street Address	N S MW	Present Well				
U5H8			1005			
Well City, Village or Town	Well ZIP Code		ess of Preser			
Village of Tony	54563			57 Hoor		
Subdivision Name	Lot#	City of Preser				ZIP Code
	4		dison		WI	53707-7965
Reason For Removal From Service MI Unique Wel	I # of Replacement Well	4. Pump, L	iner, Scree	n, Casing & S	ealing Materi	
Sampling Complete		Pump and	piping remov	ved?	□y	es No N/A
3; Well / Drillhole / Borehole Information	VIII.	Liner(s) re	moved?		□ _Y	es No N/A
Original Constructi	on Date (mm/dd/yyyy)	Screen rer	noved?			es $\square_{No} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
Monitoring Well 8/20/2		Casing left	in place?		□ _Y	es DNo XNA
Water Well If a Well Construc	tion Report is available,	1	g cut off belo	w surface?		es DNo XIN/A
Borehole / Drillhole please attach.			•	e to surface?		es $\square_{No} \boxtimes_{N/A}$
Construction Type:			al settle after			es No NA
Drilled Driven (Sandpoint)	Dug	The second second	was hole ret			
Other (specify): Direct Push		If bentonite	chips were u	used, were they has a safe source?	nydrated \square_{Y}	
Formation Type:				g Sealing Materi		CS 110 11/1
X Unconsolidated Formation ☐ Bedr	nck	Conduc	tor Pipe-Grav	rity Conduc	tor Pipe-Pumpe	ed
Total Well Depth From Ground Surface (ft.) Casing			ed & Poured ite Chips)	Other (E	explain): _Gr	tive
	N/A	Sealing Mater				
	Depth (ft.)	·	ment Grout		Clay-Sand	Slurry (11 lb./gal. wt.)
NA	/A	Sand-C	ement (Conc	rete) Grout		Sand Slurry " "
Man well amples are a souted?	No □ Unknown	Concret			Bentonite (·
Was well annular space grouted?		For Monitoring	g Wells and N	Aonitoring Well E	oreholes Only:	·
If yes, to what depth (feet)? Depth to Wal	er (feet)	Bentoni	te Chips	☐ Be	ntonite - Ceme	nt Grout
		Granula Granula	r Bentonite	and the same of th	ntonite - Sand	Slurry
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sa or Volume (c	cks Sealant ircle one)	Mix Ratio or Mud Weight
3/4" Bentonite Chips		Surface	6	1/10 Sac		
0:00						
6, Comments		-		9.1	3.1 4	
20.00		Trans.				1
7: Supervision of Work Name of Person or Firm Doing Filling & Sealing Lice		2 (42)	(In the second of the second	A Data Data di		Only
Jeiss Soil a Samples LLC		120/20		y) Date Receive	d Note	ed By
Street or Route	To	elephone Num	ber	Comments	1 11 11	19 12 1
W4490 Pope Rd		715) 539			1245	
Merrill State	1 54452	Signature of		entice	Date	120/20
1.144.111		T CVII	11111	4-11-	1 0	100100

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 a	and Seal	Drinking Water Waste Managemen		Watershed/Wa	astewater	Remedi	lation/Redevelopment
1. Well Location Information	92 T		2. Facility	/ Owner Info	ormation		
County Wi Unique Remove	ue Well # of d Well	Hicap #	Facility Name	130b's	Auto	Lust s	site
Lattitude / Longitude (Degrees and	Minutes) Meth	od Code (see instructions)	Facility ID (F	D or PWS)			
	'N	DP-2	License/Pern	nit/Monitoring	#		
1/1/4 SE 1/4 SE	Section To	wnship Range E	Original Well	Owner			
or Gov't Lot #	28	35 N 5 XW	Wis				
Well Street Address USH 8		N N	Present Well Wis	DOT			
Well City, Village or Town		Well ZIP Code		ess of Presen	5th flo		
Village of Tony		54563	City of Prese		514 TIL	State	ZIP Code
Subdivision Name		Lot#	Madi			WI	53707-7965
	1				n. Casing & S	Sealing Mate	
Reason For Removal From Service	WI Unique W	ell # of Replacement Well				T	
Sampling Complete 3; Well / Drillhole / Borehole In			Liner(s) re	l piping remov	vea r		Yes No NA
		ction Date (mm/dd/yyyy)	Screen re				Yes No NA
Monitoring Well	Bladla			ft in place?			Yes No N/A
Water Well	f a Well Constru	ction Report is available,	1	ng cut off belo	w curfoco?		Yes No N/A
X Borehole / Drillhole	olease attach.			g material rise			Yes No NA
Construction Type:				ial settle after			Yes No N/A
Drilled Driven (S		Dug	If yes,	was hole reto	opped?		Yes No XN/A
Other (specify): Direct	Push		If bentonite with water	e chips were u	used, were they a safe source?	hydrated	Yes No DNA
Formation Type:					g Sealing Mate		1
Unconsolidated Formation	Bed	irock		ctor Pipe-Grav		ctor Pipe-Pump	
Total Well Depth From Ground Sur		g Diameter (in.)		ed & Poured nite Chips) rials	Other ((Explain): _G	asity
Lower Drillhole Diameter (in.)		g Depth (ft.)	Neat C	ement Grout Cement (Concr	rete) Grout		d Slurry (11 lb./gal. wt.) -Sand Slurry " "
Was well annular space grouted?	Yes	No Unknown	Concre			X Bentonite	•
If yes, to what depth (feet)?	Depth to W			_		Boreholes Only	
				ite Chips ar Bentonite		entonite - Ceme entonite - Sand	
5. Material Used To Fill Well / Dr	illhole		From (ft.)	To (ft.)	No. Yards, S	acks Sealant	Mix Ratio or
		4-3	Surface			(circle one)	Mud Weight
314" Bentonite Chip	15		Surface	6	Vio Su	4	
6, Comments	· · · · · · · · · · · · · · · · · · ·		22.0	- 41 ₀	1,,1	7717	
7. Supervision of Work		Service Acres	(1) 19 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	V 57.	V 11 . 1 . 1	DNR Use	Only
Name of Person or Firm Doing Filli		icense # Date of Fi	ling & Septing	(mm/dd/yyy	y) Date Receiv		ted By
58155 Soil & Sample	5 LLC	The state of the s	180/20		£	\$ 100 L	
Street or Route Pope R	d	(115) 539	1-3928	Comments	1 4657	
Merrill	Stat	11 54452		Person Doing	entice	Da	te signed / 20

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2 Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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. Route to: Drinking Water Matershad Masternator Domodistion/Bodovole

Waste Manageme	nt Other:							
1. Well Location Information	2. Facility / Owner Information							
County W Unique Well # of Hicap # Removed Well	Facility Name Bob's Auto LUST Site							
Lattitude / Longitude (Degrees and Minutes) Method Code (see instructions	Facility ID (FID or PWS)							
	License/Permit/Monitoring #							
7/1/4 SE 1/4 SE Section Township Range ☐ E or Gov't Lot # 28 35 N 5 ▼ w	Original Well Owner いらめて							
Well Street Address USH 8	Present Well Owner Wis DOT							
Well City, Village or Town Well ZIP Code Village of Tony 54563	Mailing Address of Present Owner PO Box 7965 5Th Floor							
Village of 10ny 54563 Subdivision Name Lot#	City of Present Owner Madison State ZIP Code 53707-7966							
	4. Pump, Liner, Screen, Casing & Sealing Material							
Reason For Removal From Service Wi Unique Well # of Replacement Well Sandiha Candete	Pump and piping removed?							
3; Well / Drillhole / Borehole Information	Liner(s) removed?							
Original Construction Date (mm/dd/vvvv)	Screen removed?							
Monitoring Well 8/a0/a0	Casing left in place?							
Water Well If a Well Construction Report is available, please attach.	Was casing cut off below surface?							
Construction Type:	Did sealing material rise to surface?							
Drilled Driven (Sandpoint) Dug Other (specify): Direct Push	Did material settle after 24 hours? If yes, was hole retopped? If bentonite chips were used, were they hydrated with water from a known safe source? If yes No N/A N/A							
Formation Type:	Required Method of Placing Sealing Material							
Unconsolidated Formation Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped							
Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)	Screened & Poured (Bentonite Chips) Sealing Materials							
Lower Drillhole Diameter (in.) Casing Depth (ft.)	Neat Cement Grout Clay-Sand Slurry (11 lb./gai. wt.) Sand-Cement (Concrete) Grout Bentonite-Sand Slurry "							
Was well annular space grouted? Yes No Unknown	Concrete X Bentonite Chips							
If yes, to what depth (feet)? Depth to Water (feet)	For Monitoring Wells and Monitoring Well Boreholes Only: Bentonite Chips Bentonite - Cement Grout							
	Granular Bentonite Bentonite - Cernent Grout							
5. Material Used To Fill Well / Drillhole	From (ft.) To (ft.) No. Yards, Sacks Sealant or Mix Ratio or Or Volume (circle one) Mud Weight							
314" Bentinite Chies	Surface 6 1/10 Sack							
6. Comments								
7. Supervision of Work	DNR Use Only							
Name of Person or Firm Doing Filling & Sealing License # Date of F	illing & Selating (mm/dd/yyyy) Date Received Noted By							
50155 Soil & Samples LLC 0								
Street or Route N4490 Pope Rd	elephone Number Comments 1715) 539-3928							
Werrill 811 159452	Signature of Person Doing Work Date Signed 8 20 20							

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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. Route to: Verification Only of Fill and Seal Drinking Water | Watershed/Wastewater Remediation/Redevelopment Waste Management Other: 1. Well Location Information Facility / Owner Information County WI Unique Well # of Hicap # Facility Name Site Removed Well LUST rusk Facility ID (FID or PWS) Lattitude / Longitude (Degrees and Minutes) Method Code (see instructions) DP-4 icense/Permit/Monitoring # Original Well Owner SE SE Township Range WISDOT 28 or Gov't Lot # 35 5 ₩ K Present Well Owner Well Street Address WISDOI USH 8 Mailing Address of Present Owner Well City, Village or Town Well ZIP Code PO BUX 7965 5Th floor Village of 54563 City of Present Owner State ZIP Code Subdivision Name ot# Madison WI 53707-796 4. Pump, Liner, Screen, Casing & Sealing Material Reason For Removal From Service WI Unique Well # of Replacement Well Samplina complete LINO LX N/A Pump and piping removed? Yes No XNA 3; Well / Drillhole / Borehole Information Liner(s) removed? Yes No No N/A Original Construction Date (mm/dd/yyyy) Screen removed? Monitoring Well 8/a0/a0 No Casing left in place? Water Well If a Well Construction Report is available, Yes No Was casing cut off below surface? X Borehole / Drillhole please attach. ∐No Did sealing material rise to surface? J_{Yes} Construction Type: Yes No Did material settle after 24 hours? Drilled Driven (Sandpoint) Dug If yes, was hole retopped? If bentonite chips were used, were they hydrated with water from a known safe source? Other (specify): Direct Push □Yes ☑No □N/A Required Method of Placing Sealing Material Formation Type: Conductor Pipe-Gravity Conductor Pipe-Pumped Unconsolidated Formation Bedrock Screened & Poured Other (Explain): Grave Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) (Bentonite Chips) ealing Materials Lower Drillhole Diameter (in.) Casing Depth (ft.) Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.) NIA Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " X Bentonite Chips X No Was well annular space grouted? Yes Unknown or Monitoring Wells and Monitoring Well Boreholes Only: Depth to Water (feet) If yes, to what depth (feet)? Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant Mix Ratio or 5. Material Used To Fill Well / Drillhole From (ft.) To (ft.) or Volume (circle one) Surface 6 1/10 Sack Comments 7. Supervision of Work **DNR Use Only** Name of Person or Firm Doing Filling & Sealing Date of Filling & Setaling (mm/dd/yyyy) License # Date Received Noted By 58155 Soil & Samuples LLC 0812012020 Street or Route Telephone Number Comments (715)539-3928

Signature of Person Doing Work

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

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Verification Only of Fill ar	nd Seal	Drinking Waste	g Water Managemen	_	Watershed/Wa	stewater	Reme	ediation/Redevelopment
1. Well Location Information	6			2. Facility	/ Owner Info	rmation		
County W Unique Removed		Hicap#		Facility Name	Bob's	Auto	Lust	Site
Lattitude / Longitude (Degrees and N	finutes)	fethod Code (see in	structions)	Facility ID (FI	D or PWS)			
	'N 'W	DP-5		License/Perm	nit/Monitoring	#		
1/4 SE 1/4 SE S	Section	Township Rang	реПЕ	Original Well				
or Gov't Lot#	28	35 N 5		Wis				
Well Street Address USH 8				Present Well	DOT			
Well City, Village or Town		Well ZIP C			ess of Present	5th flo	200	
Village of Tony Subdivision Name	-	5456	<u> </u>	City of Prese	nt Owner		State	ZIP Code
Subdivision Name		Lot#		Madi	son		wī	53707-7965
Reason For Removal From Service	W Uniqu	e Well # of Replacer	ment Well	4. Pump, L	iner, Screen	n, Casing & S	Sealing Ma	terial
Sampling complete				Pump and	piping remov	ed?		Yes No No NA
3 Well / Drillhole / Borehole Int	ormatio	1	-	Liner(s) re				□Yes □No ☑N/A
Ori		struction Date (mm/	dd/yyyy)	Screen rer	noved?			Yes No N/A
Monitoring Well	8/20)a o		Casing left	t in place?			Yes No XNA
	a Well Cor ease attac	nstruction Report is a h.	available,		g cut off belov		[Yes No N/A
Construction Type:					g material rise		L L	Yes No NA
Drilled Driven (Sar	ndpoint)	Dug			al settle after was hole reto		ř	Yes No N/A
Other (specify): Direct 1						sed, were they safe source?	hydrated [Yes No No N/A
Formation Type:						Sealing Mate		103 == 140 == 147A
X Unconsolidated Formation		Bedrock			tor Pipe-Gravi		ctor Pipe-Pu	
Total Well Depth From Ground Surfa	ice (ft.) C	asing Diameter (in.)			ed & Poured nite Chips) rials	Other	(Explain):	rasity
Lower Drillhole Diameter (in.)	С	asing Depth (ft.)		Neat Co	ement Grout ement (Concr	ete) Grout		and Slurry (11 lb./gal. wt.) ite-Sand Slurry " "
Was well annular space grouted?	П	es No	Unknown	Concre	,	Ú,	127	ite Chips
If yes, to what depth (feet)?		o Water (feet)	Olkhowii	For Monitorin	g Wells and M	onitoring Well	Boreholes O	nly.
if yes, to what deput (leet)?	Берил	o water (leet)		[ite Chips		lentonite - Ce	
2 2 2 2	1				ar Bentonite	No. Yards, S	lentonite - Sa	
5. Material Used To Fill Well / Dril				From (ft.)	To (ft.)	or Volume	(circle one)	Mud Weight
3/4" Bentonik Chips	-			Surface	6	1/10 Sa	ick	
6. Comments		6.73		i i		4.1	5,10	
7. Supervision of Work		18 Th. 18	7.	D/16	1. 15.	1/31/47	DNR U	se Only
Name of Person or Firm Doing Filling				ling & Setaling	(mm/dd/yyyy) Date Receiv		Noted By
50155 Soil & Samples	LLC		08	120/20	120	170	4. 101,	The state of the s
Street or Route Pope Ro	k			lephone Num 715) 539		Comments		
Merrill		State ZIE Code		Signature of	Person Doing	work entice		Date Signed 8 20 20

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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Route to:

☐ Verification Only of Fill and S		-	Watershed/Wastewater Remed					
	Waste Manageme	nt Other:						
1. Well Location Information		2. Facility / Owner I	nformation					
County Wi Unique We Removed Well		Facility Name Bob		lust s	Tite			
Lattitude / Longitude (Degrees and Minute	es) Method Code (see instructions)	Facility ID (FID or PWS						
· · · · · · · · · · · · · · · · · · ·	DP-6	License/Permit/Monitori	ng #					
1/1/4 SE 1/4 SE Section	on Township Range TE	Original Well Owner						
or Gov't Lot #	8 35 N 5 XW	Wisdot						
Well Street Address USIH 8		Present Well Owner Wis DUT Mailing Address of Pres	and Owner					
Well City, Village or Town	Well ZIP Code	PO Box 796						
Village of Tony	54563	City of Present Owner	3 3		ZIP Code			
Subdivision Name	Lot#	Madison		WI	53707-7965			
Reason For Removal From Service WI	Unique Well # of Replacement Well	4. Pump, Liner, Scre	en, Casing & Se	ealing Mater	ial			
Sampling complete		Pump and piping ren	noved?		res DNo NA			
3. Well / Drillhole / Borehole Inform	ation	Liner(s) removed?			res No N/A			
	Construction Date (mm/dd/yyyy)	Screen removed?			res No N/A			
DWates Well	8/20/20	Casing left in place?		<u>L</u> \	(es No N/A			
It a VVe	ell Construction Report is available, attach.	Was casing cut off be	elow surface?		res No N/A			
Construction Type:	action i.	Did sealing material			res No NA			
Drilled Driven (Sandpo	int) Dug	Did material settle af			res No LN/A			
Nother (specify): Direct Pus	, — •	If yes, was hole if If bentonite chips wer with water from a kno		vdrated -	res No XN/A			
Formation Type:		with water from a kno Required Method of Place			res No N/A			
Unconsolidated Formation	Bedrock	Conductor Pipe-G		or Pipe-Pump	ed			
Total Well Depth From Ground Surface (Screened & Poure (Bentonite Chips)		xplain): _G~				
6'	NA	Sealing Materials	-	,				
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Neat Cement Grou		_	i Slurry (11 lb./gal. wt.) -Sand Slurry " "			
Was well annular space grouted?	Yes No Unknown	Concrete		X Bentonite	•			
If yes, to what depth (feet)?	epth to Water (feet)	For Monitoring Wells an Bentonite Chips						
		Granular Bentonite		ntonite - Ceme				
5. Material Used To Fill Well / Drillhold	, *	From (ft.) To (ft.)	I No Vanda Ca	cks Sealant	Mix Ratio or Mud Weight			
314" Bentonite Chips		Surface 6	1/10 500		maa veorgite			
6. Comments			3 1		6 1 2 2 2			
7. Supervision of Work	10 1 An An	4.4	Callaga A	DNR Use	Only			
Name of Person or Firm Doing Filling & S 50155 Soil & Samueles L	Sealing License # Date of F	Illing & Septing (mm/dd/y	yyy) Date Receive	d Not	ed By			
Street or Route N4490 Pope Rd	Т	elephone Number (715) 539-392	Comments		3.1.			
Merrill	State 75,000 57452	Signature of Person Do		Dat	e signed 20			

Appendix F Waste Disposal Request Documentation



Wagoner, Kyle

From: Wagoner, Kyle

Sent: Wednesday, September 16, 2020 2:55 PM

To: zach.davis@veolia.com

Cc: DOT Hazmat Unit e-Mailbox (dothazmatunit@dot.wi.gov); aaron.gustafson@dot.wi.gov

Subject: IDW Pick-up Request - Phase 2.5 at Bob's Auto LUST Site, Tony, Rusk County, WI

(WisDOT 1580-04-04)

Attachments: WisDOT form dt1229.pdf; Waste Char Lab_Report (Pace).pdf; IDW Bucket Location (USH

8 - Tony, WI).pdf; IMG_3263.JPG; IMG_3261.JPG; IMG_3262.JPG

Hello Zach...Please process and schedule the attached IDW bucket pick-up request at your earliest opportunity. Don't hesitate to contact me if you have any Q's or need anything else.

Thank you,

Kyle

Kyle Wagoner, P.G., CHMM

Project Manager
Environment
D 715.342.3038
Internal Cisco Extension 2103038

lule wagener@accem com

kyle.wagoner@aecom.com

AECOM

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

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NON-HAZARDOUS WASTE INVENTORY RECORD

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

DTSD Region and Office		
Northwest - Superior		
WisDOT Project ID	County	Highway and Termini
1580-04-04	Rusk	USH 8, Ladysmith to Prentice
Site Name		Phase of Investigation
Bob's Auto LUST Site in Tony,	WI	2.5
Consultant Company		
AECOM		
Consultant Contact		
Kyle Wagoner		
Contact (Area Code) Telephone Numb	per	
715-342-3038		
Contact Email Address		
kyle.wagoner@aecom.com		
Consultant ID for this Site		
60631378		

Generation Date (m/d/yyyy)

8/20/2020

Comments, special instructions for pickup or site access

One 5-gallon bucket of soil cuttings is temporarily stored next to the Village of Tony municipal building on Maple Street (see photos and location map). The site investigated is a closed LUST site (retail gasoline). Waste characaterzation for soil is Veolia Protocol T1.

Waste Description – describe containers of similar size and contents in one row. Insert additional rows as needed. Number and Label Each Container. Container Container **Estimated Volume** Source: Contents: **ID Number** of Waste Size and Type Tank, Well, Boring Soil, Water, Other (Describe) Example: 1, 4, 5, Example: 30 gallon Example: 8 drums x Example: monitoring wells Example: wash water, alconox 6, 7, 18, 22, 23 metal drum 30 gal = 240 gallons # MW3, MW4, and MW7 1 Soil 5 gal plastic bucket 5 gals Soil Borings

Total Number of Containers to be picked up: 1

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

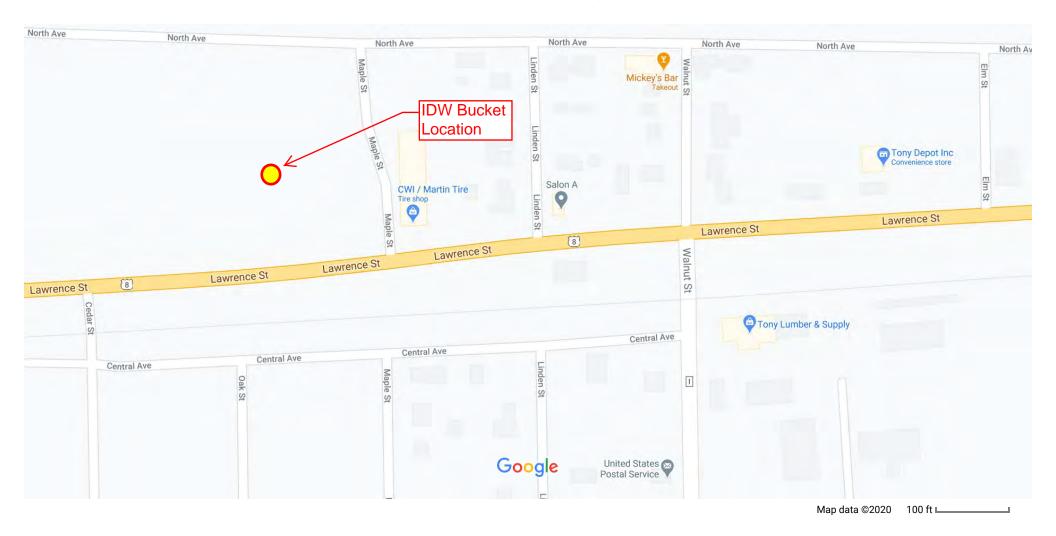
Include a copy of this form as the final appendix in the report for this site.

Tony - Google Maps
Page 1 of 1

Google Maps

Tony

Location of 5 gallon plastic bucket - Tony, WI (WisDOT 1580-04-04)







September 02, 2020

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

RE: Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Dear Kyle Wagoner:

Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

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

Sincerely,

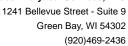
Christopher Hyska christopher.hyska@pacelabs.com (920)469-2436 Project Manager

Chuskpher Hyska

Enclosures

cc: Alex Pliska, AECOM







CERTIFICATIONS

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Pace Analytical Services Green Bay

North Dakota Certification #: R-150

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 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



SAMPLE SUMMARY

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40213353001	DP-1 (2-3')	Solid	08/20/20 11:47	08/21/20 09:45
40213353002	DP-2 (1-2')	Solid	08/20/20 12:05	08/21/20 09:45
40213353003	DP-2 (4-4.5')	Solid	08/20/20 12:00	08/21/20 09:45
40213353004	DP-3 (1-2')	Solid	08/20/20 11:25	08/21/20 09:45
40213353005	DP-3 (3-4')	Solid	08/20/20 11:10	08/21/20 09:45
40213353006	DP-4 (2-3')	Solid	08/20/20 12:20	08/21/20 09:45
40213353007	DP-4 (4-5')	Solid	08/20/20 12:22	08/21/20 09:45
40213353008	DP-5 (2-3')	Solid	08/20/20 12:10	08/21/20 09:45
40213353009	DP-6 (2-3')	Solid	08/20/20 11:40	08/21/20 09:45
40213353010	DP-6 (3.5-4.5')	Solid	08/20/20 11:40	08/21/20 09:45
40213353011	WC-082020	Solid	08/20/20 12:30	08/21/20 09:45
40213353012	TB-082020	Solid	08/20/20 00:00	08/21/20 09:45



ANALYTICAL RESULTS

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

Sample: WC-082020 Lab ID: 40213353011 Collected: 08/20/20 12:30 Received: 08/21/20 09:45 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 I	MOD DRO P	reparation N	1ethod	: WI MOD DRO			
	Pace Anal	ytical Service	es - Green Ba	у					
Diesel Range Organics	43.1	mg/kg	5.2	1.6	1	08/28/20 08:38	08/31/20 18:48		D5,DC
WIGRO GCV	Analytical	Method: WI I	MOD GRO P	reparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
	Pace Anal	ytical Service	es - Green Ba	у					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	100-41-4	W
Gasoline Range Organics	10.9	mg/kg	6.0	3.0	1	08/26/20 07:45	08/26/20 21:14		GO
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	108-88-3	W
1,2,4-Trimethylbenzene	31.9J	ug/kg	72.1	30.0	1	08/26/20 07:45	08/26/20 21:14	95-63-6	
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/26/20 07:45	08/26/20 21:14	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/26/20 07:45	08/26/20 21:14	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	103	%	80-120		1	08/26/20 07:45	08/26/20 21:14	98-08-8	
6010 MET ICP	Analytical	Method: EPA	. 6010 Prepa	ration Metho	od: EP	A 3050			
	Pace Anal	ytical Service	es - Green Ba	у					
Lead	9.5	mg/kg	2.3	0.68	1	08/25/20 05:45	08/26/20 01:33	7439-92-1	
Percent Moisture	Analytical	Method: AST	M D2974-87						
	Pace Anal	ytical Service	es - Green Ba	у					
Percent Moisture	16.7	%	0.10	0.10	1		09/01/20 09:38		
1010 Flashpoint,Closed Cup	Analytical	Method: EPA	1010						
	Pace Anal	ytical Service	es - Green Ba	у					
Flashpoint	>200	deg F			1		08/28/20 14:04		1q
9095 Paint Filter Liquid Test	Analytical	Method: EPA	9095						
-	Pace Anal	ytical Service	es - Green Ba	у					
							08/28/20 04:12		



ANALYTICAL RESULTS

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

Sample: TB-082020 Lab ID: 40213353012 Collected: 08/20/20 00:00 Received: 08/21/20 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	,		•		od: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	/					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/25/20 08:00	08/25/20 12:40	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/25/20 08:00	08/25/20 12:40	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/25/20 08:00	08/25/20 12:40	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	58-145		1	08/25/20 08:00	08/25/20 12:40	1868-53-7	
4-Bromofluorobenzene (S)	88	%	52-137		1	08/25/20 08:00	08/25/20 12:40	460-00-4	
Toluene-d8 (S)	100	%	56-140		1	08/25/20 08:00	08/25/20 12:40	2037-26-5	



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

QC Batch: 363847 Analysis Method:

QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Laboratory: Pace Analytical Services - Green Bay

WI MOD GRO

Associated Lab Samples: 40213353011

METHOD BLANK: 2103275 Matrix: Solid

Associated Lab Samples: 40213353011

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	08/26/20 08:53	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	08/26/20 08:53	
Benzene	ug/kg	<25.0	50.0	08/26/20 08:53	
Ethylbenzene	ug/kg	<25.0	50.0	08/26/20 08:53	
Gasoline Range Organics	mg/kg	<1.2	4.1	08/26/20 08:53	
m&p-Xylene	ug/kg	<50.0	100	08/26/20 08:53	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	08/26/20 08:53	
o-Xylene	ug/kg	<25.0	50.0	08/26/20 08:53	
Toluene	ug/kg	<25.0	50.0	08/26/20 08:53	
Xylene (Total)	ug/kg	<75.0	150	08/26/20 08:53	
a,a,a-Trifluorotoluene (S)	%	102	80-120	08/26/20 08:53	

LABORATORY CONTROL SAMPLE 8	LCSD: 2103276		21	03277						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1070	1050	107	105	80-120	1	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1070	1060	107	106	80-120	1	20	
Benzene	ug/kg	1000	1080	1060	108	106	80-120	1	20	
Ethylbenzene	ug/kg	1000	1070	1060	107	106	80-120	0	20	
Gasoline Range Organics	mg/kg	10	10.6	10.9	106	109	80-120	3	20	
m&p-Xylene	ug/kg	2000	2150	2130	107	107	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	1050	1060	105	106	80-120	1	20	
o-Xylene	ug/kg	1000	1070	1050	107	105	80-120	1	20	
Toluene	ug/kg	1000	1040	1030	104	103	80-120	1	20	
Xylene (Total)	ug/kg	3000	3220	3180	107	106	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				101	102	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.



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Lead

Lead

Date: 09/02/2020 07:25 AM

QC Batch: 363656 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Green Bay

2.0

08/26/20 00:26

Associated Lab Samples: 40213353001, 40213353002, 40213353003, 40213353004, 40213353005, 40213353006, 40213353007,

40213353008, 40213353009, 40213353010, 40213353011

METHOD BLANK: 2102215 Matrix: Solid

Associated Lab Samples: 40213353001, 40213353002, 40213353003, 40213353004, 40213353005, 40213353006, 40213353007,

40213353008, 40213353009, 40213353010, 40213353011

Blank Reporting

< 0.60

Parameter Units Result Limit Analyzed Qualifiers

mg/kg

LABORATORY CONTROL SAMPLE: 2102216

LCS LCS Spike % Rec Units Result % Rec Limits Qualifiers Parameter Conc. Lead mg/kg 50 52.6 105 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102217 2102218

MS MSD

40213362001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 20 5.8 60.5 60.5 61.7 61.5 92 92 75-125 0 mg/kg



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

QC Batch: 363653 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353002, 40213353003, 40213353004, 40213353005

METHOD BLANK: 2102207 Matrix: Solid

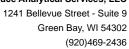
Associated Lab Samples: 40213353002, 40213353003, 40213353004, 40213353005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	08/24/20 11:09	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	08/24/20 11:09	
Benzene	ug/kg	<12.5	42.0	08/24/20 11:09	
Ethylbenzene	ug/kg	<14.5	50.0	08/24/20 11:09	
m&p-Xylene	ug/kg	<32.4	108	08/24/20 11:09	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	08/24/20 11:09	
Naphthalene	ug/kg	<27.3	91.0	08/24/20 11:09	
o-Xylene	ug/kg	<18.1	60.0	08/24/20 11:09	
Toluene	ug/kg	<13.1	50.0	08/24/20 11:09	
Xylene (Total)	ug/kg	<50.5	168	08/24/20 11:09	
4-Bromofluorobenzene (S)	%	83	52-137	08/24/20 11:09	
Dibromofluoromethane (S)	%	94	58-145	08/24/20 11:09	
Toluene-d8 (S)	%	94	56-140	08/24/20 11:09	

LABORATORY CONTROL SAMPLE:	2102208					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/kg	2500	2670	107	70-130	
Ethylbenzene	ug/kg	2500	2440	98	80-120	
m&p-Xylene	ug/kg	5000	4810	96	70-130	
Methyl-tert-butyl ether	ug/kg	2500	1970	79	70-130	
o-Xylene	ug/kg	2500	2340	94	70-130	
Toluene	ug/kg	2500	2410	96	80-120	
Xylene (Total)	ug/kg	7500	7150	95	70-130	
4-Bromofluorobenzene (S)	%			95	52-137	
Dibromofluoromethane (S)	%			107	58-145	
Toluene-d8 (S)	%			101	56-140	

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 2102	209		2102210							
			MS	MSD								
	4	0213361002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/kg	<25.0	1390	1390	1580	1570	114	113	70-130	0	20	
Ethylbenzene	ug/kg	<25.0	1390	1390	1420	1420	103	102	80-120	0	20	
m&p-Xylene	ug/kg	<50.0	2770	2770	2760	2730	100	99	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1390	1390	813	1410	59	102	70-130	54	20	M1,R1
o-Xylene	ug/kg	<25.0	1390	1390	1360	1380	98	100	70-130	2	20	

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





Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

MATRIX SPIKE & MATRIX SF	IKE DUPLIC	ATE: 2102	209 MS	MSD	2102210							
	4	0213361002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Toluene	ug/kg	<25.0	1390	1390	1450	1420	105	103	80-120	2	20	
Xylene (Total)	ug/kg	<75.0	4160	4160	4110	4120	99	99	70-130	0	20	
4-Bromofluorobenzene (S)	%						116	114	52-137			
Dibromofluoromethane (S)	%						131	133	58-145			
Toluene-d8 (S)	%						122	125	56-140			

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.



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

QC Batch: 363657 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353006, 40213353007, 40213353008

METHOD BLANK: 2102219 Matrix: Solid

Associated Lab Samples: 40213353006, 40213353007, 40213353008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
	_				
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	08/25/20 15:09	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	08/25/20 15:09	
Benzene	ug/kg	<12.5	42.0	08/25/20 15:09	
Ethylbenzene	ug/kg	<14.5	50.0	08/25/20 15:09	
m&p-Xylene	ug/kg	<32.4	108	08/25/20 15:09	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	08/25/20 15:09	
Naphthalene	ug/kg	<27.3	91.0	08/25/20 15:09	
o-Xylene	ug/kg	<18.1	60.0	08/25/20 15:09	
Toluene	ug/kg	<13.1	50.0	08/25/20 15:09	
Xylene (Total)	ug/kg	<50.5	168	08/25/20 15:09	
4-Bromofluorobenzene (S)	%	107	52-137	08/25/20 15:09	
Dibromofluoromethane (S)	%	104	58-145	08/25/20 15:09	
Toluene-d8 (S)	%	108	56-140	08/25/20 15:09	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/kg	2500	2470	99	70-130	
Ethylbenzene	ug/kg	2500	2530	101	80-120	
m&p-Xylene	ug/kg	5000	5100	102	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2630	105	70-130	
o-Xylene	ug/kg	2500	2530	101	70-130	
Toluene	ug/kg	2500	2420	97	80-120	
Xylene (Total)	ug/kg	7500	7630	102	70-130	
4-Bromofluorobenzene (S)	%			102	52-137	
Dibromofluoromethane (S)	%			99	58-145	
Toluene-d8 (S)	%			101	56-140	

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.



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

QC Batch: 363760 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353001, 40213353009, 40213353010, 40213353012

METHOD BLANK: 2102488 Matrix: Solid

Associated Lab Samples: 40213353001, 40213353009, 40213353010, 40213353012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	— ug/kg	- 	60.0	08/25/20 11:15	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	08/25/20 11:15	
Benzene	ug/kg	<12.5	42.0	08/25/20 11:15	
Ethylbenzene	ug/kg	<14.5	50.0	08/25/20 11:15	
m&p-Xylene	ug/kg	<32.4	108	08/25/20 11:15	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	08/25/20 11:15	
Naphthalene	ug/kg	<27.3	91.0	08/25/20 11:15	
o-Xylene	ug/kg	<18.1	60.0	08/25/20 11:15	
Toluene	ug/kg	<13.1	50.0	08/25/20 11:15	
Xylene (Total)	ug/kg	<50.5	168	08/25/20 11:15	
4-Bromofluorobenzene (S)	%	77	52-137	08/25/20 11:15	
Dibromofluoromethane (S)	%	93	58-145	08/25/20 11:15	
Toluene-d8 (S)	%	90	56-140	08/25/20 11:15	

LABORATORY CONTROL SAMPLE:	2102489					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/kg	2500	2610	104	70-130	
Ethylbenzene	ug/kg	2500	2320	93	80-120	
m&p-Xylene	ug/kg	5000	4560	91	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2240	89	70-130	
o-Xylene	ug/kg	2500	2260	90	70-130	
Toluene	ug/kg	2500	2360	95	80-120	
Xylene (Total)	ug/kg	7500	6820	91	70-130	
4-Bromofluorobenzene (S)	%			92	52-137	
Dibromofluoromethane (S)	%			104	58-145	
Toluene-d8 (S)	%			100	56-140	

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.

(920)469-2436



QUALITY CONTROL DATA

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

QC Batch: 364088 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353011

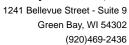
METHOD BLANK: 2104446 Matrix: Solid

Associated Lab Samples: 40213353011

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Diesel Range Organics mg/kg <1.3 4.4 08/31/20 17:44

LABORATORY CONTROL SAMPLE & LCSD: 2104447 2104448 Spike LCS LCSD LCS LCSD % Rec Max Conc. % Rec % Rec RPD RPD Qualifiers Parameter Units Result Result Limits Diesel Range Organics mg/kg 40 29.5 30.2 74 76 70-120 2





Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

QC Batch: 364349 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353001, 40213353002, 40213353003, 40213353004, 40213353005, 40213353006, 40213353007,

40213353008, 40213353009, 40213353010, 40213353011

SAMPLE DUPLICATE: 2105670

Date: 09/02/2020 07:25 AM

		40213353010	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	19.4	19.1	2	10	



Project:

Flashpoint

Flashpoint

60631378 USH 8, TONY, WI

Pace Project No.:

40213353

QC Batch:

QC Batch Method:

364118

EPA 1010

Analysis Method:

EPA 1010

Analysis Description:

1010 Flash Point, Closed Cup

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples:

40213353011

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

2104634

Units

deg F

Spike Conc.

LCS Result

LCS % Rec % Rec

Limits

Qualifiers

SAMPLE DUPLICATE: 2104906

40213672001 Result

Dup Result

83.0

RPD

Max **RPD**

Qualifiers

Date: 09/02/2020 07:25 AM

Units deg F

>200

>200



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

QC Batch: 364063

QC Batch Method: EPA 9095 Analysis Method: EPA 9095

Analysis Description:

9095 PAINT FILTER LIQUID TEST

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353011

METHOD BLANK: 2104356

Matrix: Solid

Associated Lab Samples: 40213353011

Parameter

Blank Result Reporting

Qualifiers Limit Analyzed

Free Liquids Fail 08/28/20 04:10 no units

LABORATORY CONTROL SAMPLE:

Parameter

2104357

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Free Liquids

Units no units

Units

Units

Pass

SAMPLE DUPLICATE: 2104358

Parameter

40213353011 Result

Dup Result

Max **RPD RPD**

Qualifiers

Free Liquids

Date: 09/02/2020 07:25 AM

no units

Pass

Pass



QUALIFIERS

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

W

Date: 09/02/2020 07:25 AM

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.
D5	The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications.
DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
GO	Early and late peaks present outside the GRO window.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/02/2020 07:25 AM

No.	Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
10213353001 DP-1 (2-3')	40213353011	WC-082020	WI MOD DRO	364088	WI MOD DRO	364114
ID213353002 DP-2 (1-2")	40213353011	WC-082020	TPH GRO/PVOC WI ext.	363847	WI MOD GRO	363871
DP-2 (4-4.5)	40213353001	DP-1 (2-3')	EPA 3050	363656	EPA 6010	363783
DP-3 (1-2')	40213353002	DP-2 (1-2')	EPA 3050	363656	EPA 6010	363783
10213353005 DP-3 (3-4")	40213353003	DP-2 (4-4.5')	EPA 3050	363656	EPA 6010	363783
10213353006 DP-4 (2-3')	40213353004	DP-3 (1-2')	EPA 3050	363656	EPA 6010	363783
10213353007 DP-4 (4-5')	40213353005	DP-3 (3-4')	EPA 3050	363656	EPA 6010	363783
DP-5 (2-3')	40213353006	DP-4 (2-3')	EPA 3050	363656	EPA 6010	363783
DP-6 (2-3')	10213353007	DP-4 (4-5')	EPA 3050	363656	EPA 6010	363783
DP-6 (2-3')	10213353008	DP-5 (2-3')	EPA 3050	363656	EPA 6010	363783
Decision	10213353009		EPA 3050	363656	EPA 6010	363783
Decision	10213353010	DP-6 (3.5-4.5')	EPA 3050	363656	EPA 6010	363783
DP-2 (1-2') EPA 5035/5030B 363653 EPA 8260 363655 DP-2 (4-4.5') EPA 5035/5030B 363653 EPA 8260 363655 DP-3 (1-2') EPA 5035/5030B 363653 EPA 8260 363655 DP-3 (3-4') EPA 5035/5030B 363655 EPA 8260 363655 DP-4 (2-3') EPA 5035/5030B 363657 EPA 8260 363662 DP-5 (2-3') EPA 5035/5030B 363657 EPA 8260 363662 DP-5 (2-3') EPA 5035/5030B 363657 EPA 8260 363662 DP-5 (2-3') EPA 5035/5030B 363760 EPA 8260 363762 DP-6 (3-5-4-5') EPA 5035/5030B 363760 EPA 8260 363762 DP-6 (3-5-4-5') EPA 5035/5030B 363760 EPA 8260 363762 DP-1 (2-3') ASTM D2974-87 364349 DP-1 (2-3') ASTM D2974-87 364349 DP-1 (2-3') ASTM D2974-87 364349 DP-2 (4-4-5') ASTM D2974-87 364349 DP-3 (1-2') ASTM D2974-87 364349 DP-3 (3-4') ASTM D2974-87 364349 DP-5 (2-3') ASTM D2974-87 364349 DP-6 (3-5-4-5') ASTM D2974-87 364349 DP-6 (3-5-4-5') ASTM D2974-87 364349 DP-6 (3-5') ASTM D2974-	40213353011					
DP-2 (4-4.5)	40213353001	DP-1 (2-3')	EPA 5035/5030B	363760	EPA 8260	363762
DP-3 (1-2')	10213353002	DP-2 (1-2')	EPA 5035/5030B	363653	EPA 8260	363655
40213353005 DP-3 (3-4') EPA 5035/5030B 363653 EPA 8260 363655 40213353006 DP-4 (2-3') EPA 5035/5030B 363657 EPA 8260 363662 40213353007 DP-4 (4-5') EPA 5035/5030B 363657 EPA 8260 363662 40213353008 DP-5 (2-3') EPA 5035/5030B 363657 EPA 8260 363662 40213353009 DP-6 (2-3') EPA 5035/5030B 363760 EPA 8260 363762 40213353010 DP-6 (3.5-4.5') EPA 5035/5030B 363760 EPA 8260 363762 40213353012 TB-082020 EPA 5035/5030B 363760 EPA 8260 363762 40213353001 DP-1 (2-3') ASTM D2974-87 364349 364349 40213353002 DP-2 (1-2') ASTM D2974-87 364349 40213353003 DP-3 (3-4') ASTM D2974-87 364349 40213353004 DP-3 (3-4') ASTM D2974-87 364349 40213353005 DP-3 (3-4') ASTM D2974-87 364349 40213353006 DP-4 (4-5') <t< td=""><td>10213353003</td><td>DP-2 (4-4.5')</td><td>EPA 5035/5030B</td><td>363653</td><td>EPA 8260</td><td>363655</td></t<>	10213353003	DP-2 (4-4.5')	EPA 5035/5030B	363653	EPA 8260	363655
10213353006 DP-4 (2-3') EPA 5035/5030B 363657 EPA 8260 363662 10213353007 DP-4 (4-5') EPA 5035/5030B 363657 EPA 8260 363662 10213353008 DP-5 (2-3') EPA 5035/5030B 363657 EPA 8260 363662 10213353009 DP-6 (2-3') EPA 5035/5030B 363760 EPA 8260 363762 10213353010 DP-6 (3.5-4.5') EPA 5035/5030B 363760 EPA 8260 363762 10213353012 TB-082020 EPA 5035/5030B 363760 EPA 8260 363762 10213353001 DP-1 (2-3') ASTM D2974-87 364349 10213353002 DP-2 (1-2') ASTM D2974-87 364349 10213353004 DP-3 (1-2') ASTM D2974-87 364349 10213353004 DP-3 (1-2') ASTM D2974-87 364349 10213353006 DP-4 (2-3') ASTM D2974-87 364349 10213353006 DP-4 (2-3') ASTM D2974-87 364349 10213353007 DP-4 (4-5') ASTM D2974-87 364349 10213353007 DP-6 (2-3') ASTM D2974-87 364349 10213353009 DP-6 (2-3') ASTM D2974-87 364349 10213353009 DP-6 (2-3') ASTM D2974-87 364349 10213353009 DP-6 (2-3') ASTM D2974-87 364349 10213353001 DP-6 (3.5-4.5') ASTM D2974-87 364349 10213353001 DP-6 (3.5-4.5') ASTM D2974-87 364349 10213353001 DP-6 (3.5-4.5') ASTM D2974-87 364349 10213353001 WC-082020 ASTM D2974-87 364349 10213353001 MC-082020 AS	10213353004	DP-3 (1-2')	EPA 5035/5030B	363653	EPA 8260	363655
DP-4 (4-5')	0213353005	DP-3 (3-4')	EPA 5035/5030B	363653	EPA 8260	363655
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## Page 10213353010 DP-6 (3.5-4.5') EPA 5035/5030B 363760 EPA 8260 363762	10213353008	DP-5 (2-3')	EPA 5035/5030B	363657	EPA 8260	363662
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Project Numb			A=N	lone B=	HCL C	=H2SO4		/ation Co 03 E≠DI		F=Metha	nol G	=NaOH]	Mail To	Company:	AEC	COM	
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PACE LAB#	 	Soil Sludge COLLI	WW = Wast WP = Wipe ECTION TIME	MATRIX	Anal	PVCC + MAPH	Lead	Protocol	13 3	30	rt.				IENT MENTS		OMMENTS Use Only)	Profile #
001	DP-1 (2-3')	8/20/20		S		\mathbf{x}	X											
002	DP-2 (1-2')	8/20/20	0/65/96/00/05/96/96			S	K											
003	DP-2 (4-4.5')	8/20/20	\$250 SOC \$200 (\$250)	0.500,000,000,000,005		X	V											
004	DP-3 (1-2')	8/20/20	100000000000000000000000000000000000000			X	X											
005	DP-3 (3-4')	8/24/20		S		X	∇											
006	DP-4 (2-3)	8/20/20			1	X	X											
007	DP-4 (4-5)	8/28/20		participation of the second		X	X											
008	DP-5 (2-3)	8/20/20		S		∇	X											
009	· · · · · · · · · · · · · · · · · · ·	8/20/20		5		X	X									1 2 2		
010		8/20/20		5		∇	X											
011	WC-0820ZO	8/20/20						X	K	x	X	8/21/20						
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Transmit Prelin	n Rush Results by (complete what you wan	t):	10	edly	<u> </u>		8[:	21/20	00	145		Л Ш		1 me	Date/Time:	0945	Receipt Temp =)_{ ℃
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	nples on HOLD are subject to al pricing and release of liability	Relinqu	uished By:				Dat	e/Time:			Receive	d By:			Date/Time:		Cooler Cust Presenty No Intact / No	t Present

Sample Preservation Receipt Form Project # 40213353

Pace Analytical Services, LLC 1241 Bellevue Street, Suite 95 Green Bay, WI 54302[∞]

Date/

All containers needing preservation have been checked and noted below: □Yes □No Initial when completed: Time: Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): \aOH+Zn Act pH ≥9 /OA Vials (>6mm) after adjusted Glass **Plastic Vials** Jars General 12SO4 pH ≤2 laOH pH ≥12 Volume NO3 pH ≤2 (mL) WGFU AG10 BG10 AG1H AG4S AG40 AG5U **M69/** WPFU AG2S BG3U BP1U **BP3U BP3B BP3N BP3S** VG9A DG9T **VG9**U **/G9H** VG9D JGFU JG9U ZPLC SP5T Pace S Lab# 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 <u>a</u> 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 Headspace in VOA Vials (>6mm): □Yes □No →N/A *If yes look in headspace column Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

AG1U 1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H 1 liter amber glass HCL AG4S 125 mL amber glass H2SO4	 (1) (4) (4) (4) (4) (4) (4) (4) 	250 mL plastic NaOH 250 mL plastic HNO3	4.1	40 mL clear vial unpres 40 mL clear vial HCL		4 oz clear jar unpres 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres AG5U 100 mL amber glass unpres	BP3S	250 mL plastic H2SO4		40 mL clear vial MeOH 40 mL clear vial DI	1.1	120 mL plastic Na Thiosulfate ziploc bag
AG2S 500 mL amber glass H2SO4					GN	
BG3U 250 mL clear glass unpres						

Client Name: ACOM

Pace Analytical®
1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.: ENV-FRM-GBAY-0014-Rev.00 Document Revised: 26Mar2020

Author:

Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: HUOM			#:40213353
Courier: CS Logistics Fed Ex Spe	eedee □UPS □ Wal	tco	
Client Pace Other:	2876	40213	3333
Custody Seal on Cooler/Box Present: Kye	<u> </u>		
custody Seal on Samples Present:	Seals intact:		
acking Material: Bubble Wrap	Subble Bags I None	Other	
nermometer Used SR - NA	Type of Ice: (Ver) B		on ice, cooling process has begun
cooler Temperature Uncorr: Lot ICor			Person examining contents:
emp Blank Present: yes no	Biological Tis	sue is Frozen: yes no	Date: 8/21/20 Initials: 1/
emp should be above freezing to 6°C. ′ iota Samples may be received at ≤ 0°C if shipped o			1410
chain of Custody Present:	Yes □No □N/A 1.		Labeled By Initials: NU
		C12 matrix	141000
chain of Custody Relinquished:	√es □No □N/A 3.		[VI(X(8-2-)-01)
ampler Name & Signature on COC:	Ses □No □N/A 4.		
amples Arrived within Hold Time:	⊠ Yes □No 5.		
- VOA Samples frozen upon receipt	□Yes □No □	ate/Time:	
hort Hold Time Analysis (<72hr):	□Yes M No 6.		
ush Turn Around Time Requested:	□Yes D k√To 7.		
Sufficient Volume:	8.		
For Analysis: চ≰ves □no MS/M	ISD: □Yes 🗫 □N/A		
orrect Containers Used:	ÄYes □No 9.	DRO NO headspa	(0
-Pace Containers Used:	Yes ONO ON/A	Dies to terre also	
-Pace IR Containers Used:	/ □Yes □No ► N/A		8/21/20
ontainers Intact:	54es □No 10).	
iltered volume received for Dissolved tests	□Yes □No 🖼 11		
ample Labels match COC:	□Yes ZANo □N/A 12	2008 - Mesh vial ID	"0P-3(2-3) placed
-Includes date/time/ID/Analysis Matrix:_	S	by time-	Challa
rip Blank Present:	Yes □No □N/A 13	3. No depth units: VG9Ms	:002,003,006 - No
rip Blank Custody Seals Present	₹ □No □N/A	cosicio, wifus: 023.00	6,007, ID DP-#-211-21
ace Trip Blank Lot # (if purchased): \$00 \\$0	NB M	eathbook was-21-	a) occupate mile
lient Notification/ Resolution:			ched form for additional comments
Person Contacted: Comments/ Resolution:	Date/Tin	ie:	
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Appendix G Standard Analytical Procedures



Standard Analytical Procedures

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

The analytical methods used were:

- PVOCs plus Naphthalene by EPA Method 8260 Short List
- Total Lead by EPA Method 6010
- TCLP Lead by EPA Methods 6010/3010/1311
- Free liquids by EPA Method 9095 (Paint Filter Liquid Test)
- Flash point by EPA Method 1010 (Closed Cup)
- Diesel range organics by WI Mod DRO
- Gasoline range organics by WI Mod GRO

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

Appendix H Laboratory Report and Chain of Custody Form







September 24, 2020

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

RE: Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Dear Kyle Wagoner:

Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

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

Sincerely,

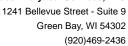
Christopher Hyska christopher.hyska@pacelabs.com (920)469-2436 Project Manager

Chuskpher Hyska

Enclosures

cc: Alex Pliska, AECOM







CERTIFICATIONS

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Pace Analytical Services Green Bay

North Dakota Certification #: R-150

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 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



SAMPLE SUMMARY

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40213353001	DP-1 (2-3')	Solid	08/20/20 11:47	08/21/20 09:45
40213353002	DP-2 (1-2')	Solid	08/20/20 12:05	08/21/20 09:45
40213353003	DP-2 (4-4.5')	Solid	08/20/20 12:00	08/21/20 09:45
40213353004	DP-3 (1-2')	Solid	08/20/20 11:25	08/21/20 09:45
40213353005	DP-3 (3-4')	Solid	08/20/20 11:10	08/21/20 09:45
40213353006	DP-4 (2-3')	Solid	08/20/20 12:20	08/21/20 09:45
40213353007	DP-4 (4-5')	Solid	08/20/20 12:22	08/21/20 09:45
40213353008	DP-5 (2-3')	Solid	08/20/20 12:10	08/21/20 09:45
40213353009	DP-6 (2-3')	Solid	08/20/20 11:40	08/21/20 09:45
40213353010	DP-6 (3.5-4.5')	Solid	08/20/20 11:40	08/21/20 09:45
40213353011	WC-082020	Solid	08/20/20 12:30	08/21/20 09:45
40213353012	TB-082020	Solid	08/20/20 00:00	08/21/20 09:45

(920)469-2436



SAMPLE ANALYTE COUNT

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40213353001	DP-1 (2-3')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353002	DP-2 (1-2')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353003	DP-2 (4-4.5')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353004	DP-3 (1-2')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353005	DP-3 (3-4')	EPA 6010	TXW	1	PASI-G
	EPA 6010	TXW	1	PASI-G	
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353006	DP-4 (2-3')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353007	DP-4 (4-5')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353008	DP-5 (2-3')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353009	DP-6 (2-3')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40213353010	DP-6 (3.5-4.5')	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	13	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
10213353011	WC-082020	WI MOD DRO	MRN	1	PASI-G
		WI MOD GRO	ALD	11	PASI-G
		EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 1010	DEY	1	PASI-G
		EPA 9095	EXM	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

SAMPLE ANALYTE COUNT

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40213353012	TB-082020	EPA 8260	MDS	13	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 6010	Lead	7.9	mg/kg		08/26/20 01:05	
EPA 8260 ASTM D2974-87	Benzene Percent Moisture	57.9J 16.4	ug/kg %		08/25/20 15:14 09/01/20 09:37	
		10.4	70	0.10	09/01/20 09.37	
0213353002	DP-2 (1-2')	0.0			00/00/00 04 07	
EPA 6010 ASTM D2974-87	Lead Percent Moisture	2.8 4.6	mg/kg %		08/26/20 01:07 09/01/20 09:37	
		4.0	/0	0.10	09/01/20 09.37	
0213353003	DP-2 (4-4.5')			0.0	00/00/00 04 00	
EPA 6010 ASTM D2974-87	Lead Percent Moisture	4.4 13.9	mg/kg %		08/26/20 01:09 09/01/20 09:37	
		13.9	/0	0.10	09/01/20 09.37	
0213353004	DP-3 (1-2')			_	00/00/07	
EPA 6010	Lead	3.2	mg/kg %		08/26/20 01:12	
ASTM D2974-87	Percent Moisture	6.0	70	0.10	09/01/20 09:37	
0213353005	DP-3 (3-4')					
EPA 6010	Lead	529	mg/kg		08/26/20 01:19	
EPA 6010 ASTM D2974-87	Lead Percent Moisture	0.18 12.1	mg/L %	0.020	09/23/20 16:07 09/01/20 09:37	
		12.1	70	0.10	03/01/20 03:31	
0213353006	DP-4 (2-3')	2.0		2.2	09/06/00 04:04	
EPA 6010 ASTM D2974-87	Lead Percent Moisture	3.8 10.3	mg/kg %		08/26/20 01:21 09/01/20 09:37	
0213353007	DP-4 (4-5')	10.0	70	0.10	00/01/20 00:01	
EPA 6010	Lead	2.5	mg/kg	2.0	08/26/20 01:24	
ASTM D2974-87	Percent Moisture	7.1	111g/kg %		09/01/20 09:37	
0213353008	DP-5 (2-3')					
EPA 6010	Lead	5.3	mg/kg	21	08/26/20 01:26	
ASTM D2974-87	Percent Moisture	11.3	g/g %		09/01/20 09:38	
0213353009	DP-6 (2-3')					
EPA 6010	Lead	7.6	mg/kg	2.3	08/26/20 01:28	
ASTM D2974-87	Percent Moisture	16.6	%		09/01/20 09:38	
0213353010	DP-6 (3.5-4.5')					
EPA 6010	Lead	7.2	mg/kg	2.4	08/26/20 01:31	
ASTM D2974-87	Percent Moisture	19.4	%	0.10	09/01/20 09:38	
0213353011	WC-082020					
VI MOD DRO	Diesel Range Organics	43.1	mg/kg	5.2	08/31/20 18:48	D5,DC
VI MOD GRO	Gasoline Range Organics	10.9	mg/kg	6.0	08/26/20 21:14	GO
VI MOD GRO	1,2,4-Trimethylbenzene	31.9J	ug/kg	72.1	08/26/20 21:14	
PA 6010 STM D2974-87	Lead Percent Moisture	9.5 16.7	mg/kg %	2.3 0.10		
EPA 1010	Flashpoint	>200	deg F	0.10		1q
EPA 9095	Free Liquids	Pass	no units		08/28/20 04:12	٦





PROJECT NARRATIVE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: September 24, 2020

Revised report per client request to add TCLP Lead to sample DP-3 (3-4¿) (40213353005). 9/24/20 CDH

(920)469-2436



PROJECT NARRATIVE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Method: WI MOD DRO Description: WIDRO GCS

Client: AECOM, Inc. - Stevens Point

Date: September 24, 2020

General Information:

1 sample was analyzed for WI MOD DRO by Pace Analytical Services Green Bay. 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:

Analyte Comments:

QC Batch: 364088

D5: The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications.

- WC-082020 (Lab ID: 40213353011)
 - Diesel Range Organics



PROJECT NARRATIVE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Method: WI MOD GRO Description: WIGRO GCV

Client: AECOM, Inc. - Stevens Point

Date: September 24, 2020

General Information:

1 sample was analyzed for WI MOD GRO by Pace Analytical Services Green Bay. 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:



PROJECT NARRATIVE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Method: EPA 6010
Description: 6010 MET ICP

Client: AECOM, Inc. - Stevens Point

Date: September 24, 2020

General Information:

11 samples were analyzed for EPA 6010 by Pace Analytical Services Green Bay. 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:



PROJECT NARRATIVE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Method: EPA 6010

Description: 6010 MET ICP, TCLP

Client: AECOM, Inc. - Stevens Point

Date: September 24, 2020

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:



PROJECT NARRATIVE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Method: EPA 8260

Description: 8260 MSV Med Level Short List
Client: AECOM, Inc. - Stevens Point
Date: September 24, 2020

General Information:

11 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.

QC Batch: 363653

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40213361002

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

- MS (Lab ID: 2102209)
 - Methyl-tert-butyl ether

R1: RPD value was outside control limits.

- MSD (Lab ID: 2102210)
 - Methyl-tert-butyl ether

Additional Comments:



PROJECT NARRATIVE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Method: EPA 1010

Description: 1010 Flashpoint, Closed Cup Client: AECOM, Inc. - Stevens Point Date: September 24, 2020

General Information:

1 sample was analyzed for EPA 1010 by Pace Analytical Services Green Bay. 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: 364118

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.

- WC-082020 (Lab ID: 40213353011)
 - Flashpoint



PROJECT NARRATIVE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Method: EPA 9095

Description:9095 Paint Filter Liquid TestClient:AECOM, Inc. - Stevens PointDate:September 24, 2020

General Information:

1 sample was analyzed for EPA 9095 by Pace Analytical Services Green Bay. 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.



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-1 (2-3') Lab ID: 40213353001 Collected: 08/20/20 11:47 Received: 08/21/20 09:45 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.	Qua
6010 MET ICP	Analytical	Method: EPA	A 6010 Prepar	ation Metho	d: EP	A 3050			
	Pace Anal	ytical Service	es - Green Bay	/					
ead	7.9	mg/kg	2.2	0.65	1	08/25/20 05:45	08/26/20 01:05	7439-92-1	
3260 MSV Med Level Short List	Analytical	Method: EPA	A 8260 Prepar	ation Metho	od: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	/					
Benzene	57.9J	ug/kg	71.8	29.9	1	08/25/20 08:00	08/25/20 15:14	71-43-2	
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:14	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:14	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/25/20 08:00	08/25/20 15:14	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:14	108-88-3	W
,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:14	95-63-6	W
,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:14	108-67-8	W
(ylene (Total)	<75.0	ug/kg	180	75.0	1	08/25/20 08:00	08/25/20 15:14	1330-20-7	W
n&p-Xylene	<50.0	ug/kg	120	50.0	1	08/25/20 08:00	08/25/20 15:14	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:14	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	58-145		1	08/25/20 08:00	08/25/20 15:14	1868-53-7	
I-Bromofluorobenzene (S)	86	%	52-137		1	08/25/20 08:00	08/25/20 15:14	460-00-4	
Toluene-d8 (S)	100	%	56-140		1	08/25/20 08:00	08/25/20 15:14	2037-26-5	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
	Pace Anal	ytical Service	es - Green Bay	/					



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-2 (1-2') Lab ID: 40213353002 Collected: 08/20/20 12:05 Received: 08/21/20 09:45 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.	Qua
6010 MET ICP	Analytical	Method: EPA	A 6010 Prepar	ation Metho	d: EP	A 3050			
	Pace Anal	ytical Service	es - Green Bay	/					
_ead	2.8	mg/kg	2.0	0.60	1	08/25/20 05:45	08/26/20 01:07	7439-92-1	
3260 MSV Med Level Short List	Analytical	Method: EPA	8260 Prepar	ation Metho	d: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	/					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:15	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:15	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:15	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/24/20 09:30	08/24/20 18:15	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:15	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:15	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:15	108-67-8	W
(ylene (Total)	<75.0	ug/kg	180	75.0	1	08/24/20 09:30	08/24/20 18:15	1330-20-7	W
n&p-Xylene	<50.0	ug/kg	120	50.0	1	08/24/20 09:30	08/24/20 18:15	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:15	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	58-145		1	08/24/20 09:30	08/24/20 18:15	1868-53-7	
1-Bromofluorobenzene (S)	100	%	52-137		1	08/24/20 09:30	08/24/20 18:15	460-00-4	
Toluene-d8 (S)	116	%	56-140		1	08/24/20 09:30	08/24/20 18:15	2037-26-5	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
	Pace Anal	ytical Service	es - Green Bay	/					



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-2 (4-4.5') Lab ID: 40213353003 Collected: 08/20/20 12:00 Received: 08/21/20 09:45 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	A 6010 Prepara	ation Metho	od: EP	A 3050			
	Pace Anal	ytical Service	es - Green Bay						
Lead	4.4	mg/kg	2.3	0.68	1	08/25/20 05:45	08/26/20 01:09	7439-92-1	
8260 MSV Med Level Short List	Analytical	Method: EPA	A 8260 Prepara	ation Metho	od: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay						
Benzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:32	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:32	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:32	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/24/20 09:30	08/24/20 18:32	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:32	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:32	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:32	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/24/20 09:30	08/24/20 18:32	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/24/20 09:30	08/24/20 18:32	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:32	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	58-145		1	08/24/20 09:30	08/24/20 18:32	1868-53-7	
4-Bromofluorobenzene (S)	89	%	52-137		1	08/24/20 09:30	08/24/20 18:32	460-00-4	
Toluene-d8 (S)	102	%	56-140		1	08/24/20 09:30	08/24/20 18:32	2037-26-5	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
	Pace Anal	ytical Service	es - Green Bay						
Percent Moisture	13.9	%	0.10	0.10	1		09/01/20 09:37		



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-3 (1-2') Lab ID: 40213353004 Collected: 08/20/20 11:25 Received: 08/21/20 09:45 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	A 6010 Prepara	ation Metho	od: EP	A 3050			
	Pace Anal	ytical Service	es - Green Bay						
Lead	3.2	mg/kg	2.0	0.58	1	08/25/20 05:45	08/26/20 01:12	7439-92-1	
8260 MSV Med Level Short List	Analytical	Method: EPA	8260 Prepara	ation Metho	od: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay						
Benzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:49	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:49	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:49	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/24/20 09:30	08/24/20 18:49	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:49	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:49	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:49	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/24/20 09:30	08/24/20 18:49	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/24/20 09:30	08/24/20 18:49	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 18:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	58-145		1	08/24/20 09:30	08/24/20 18:49	1868-53-7	
4-Bromofluorobenzene (S)	91	%	52-137		1	08/24/20 09:30	08/24/20 18:49	460-00-4	
Toluene-d8 (S)	108	%	56-140		1	08/24/20 09:30	08/24/20 18:49	2037-26-5	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
	Pace Anal	ytical Service	es - Green Bay						
Percent Moisture	6.0	%	0.10	0.10	1		09/01/20 09:37		



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-3 (3-4') Lab ID: 40213353005 Collected: 08/20/20 11:10 Received: 08/21/20 09:45 Matrix: Solid

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

Pace Analytical Services - Green Bay Lead 529 mg/kg 2.1 0.64 1 08/25/20 05:45 08/26/20 01:19 7439-92-1 Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 09/21/20 13:42 Pace Analytical Services - Green Bay Lead 0.18 mg/L 0.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay Benzene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 71-43-2 W Wethyl-tert-butyl ether 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Waphthalene 427.3 ug/kg 91.0 27.3 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Waphthalene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 91-20-3 W Rollene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Waphthalene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 91-20-3 W Rollene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 108-88-3 W U,3,5-Trimethylbenzene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 108-88-3 W U,3,5-Trimethylbenzene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 108-67-8 W W,9lene 425.0 ug/kg 180 75.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 130-67-8 W W,9lene 425.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/2	Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
Solition	6010 MET ICP	Analytical	Method: EPA	6010 Prepar	ation Metho	d: EP	A 3050			
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 09/21/20 13:42 Pace Analytical Services - Green Bay Lead 0.18 mg/L 0.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.023 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.023 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.023 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.023 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.023 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.023 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Baced 10.18 mg/L 10.18		Pace Anal	ytical Service	s - Green Bay	/					
Leachate Method/Date: EPA 1311; 09/21/20 13:42 Pace Analytical Services - Green Bay Lead 0.18 mg/L 0.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay Benzene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 71-43-2 W Bethylbenzene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 100-41-4 W Bethylbenzene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Bethyltert-butyl ether <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Bethyltert-butyl ether <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Bethyltert-butylether <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Bethyltert-butylethylbenzene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Bethyltert-butylbenzene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 108-88-3 W Bethylter Clotal Compared to the state of th	Lead	529	mg/kg	2.1	0.64	1	08/25/20 05:45	08/26/20 01:19	7439-92-1	
Pace Analytical Services - Green Bay Lead 0.18 mg/L 0.020 0.0059 1 09/23/20 05:56 09/23/20 16:07 7439-92-1 Bace Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay Benzene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 71-43-2 W Methyl-tert-butyl ether <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 100-41-4 W Methyl-tert-butyl ether <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Maphthalene <27.3 ug/kg 91.0 27.3 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Maphthalene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 91-20-3 W Foluene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 91-20-3 W Methyl-tert-butyl benzene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 108-88-3 W L,2,4-Trimethylbenzene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 108-88-3 W Mylene (Total) <75.0 ug/kg 180 75.0 1 08/24/20 09:30 08/24/20 19:06 108-67-8 W Mylene (Total) <75.0 ug/kg 180 75.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W Maphylene <50.0 ug/kg 120 50.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W Maphylene <50.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W Maphylene <50.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W Maphylene <50.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W Maphylene <50.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1368-53-7 W Maphylene <50.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1868-53-7 W Maphylene <50.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1300-20-7 W Maphylene Aphylene Aphyle	6010 MET ICP, TCLP	Analytical	Method: EPA	6010 Prepar	ation Metho	d: EP	A 3010			
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay Senzene		Leachate	Method/Date	EPA 1311; 09	9/21/20 13:4	12				
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay Analytical Services - Green Bay		Pace Anal	ytical Service	es - Green Bay	/					
Pace Analytical Services - Green Bay Senzene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 71-43-2 W Sethylbenzene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 100-41-4 W Methyl-tert-butyl ether -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Naphthalene -27.3 ug/kg 91.0 27.3 1 08/24/20 09:30 08/24/20 19:06 1634-04-4 W Naphthalene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 108-88-3 W I,2,4-Trimethylbenzene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 108-88-3 W I,3,5-Trimethylbenzene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 56-63-6 W Kylene (Total) -75.0 ug/kg 180 75.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W m&p-Xylene -50.0 ug/kg 120 50.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W m-Xylene -50.0 ug/kg 120 50.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 1300-20-1 W m-Xylene -50.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W m-Xylene -25.0 ug/kg 60.0 25	Lead	0.18	mg/L	0.020	0.0059	1	09/23/20 05:56	09/23/20 16:07	7439-92-1	
Senzene	8260 MSV Med Level Short List	Analytical	Method: EPA	8260 Prepar	ation Metho	d: EP	A 5035/5030B			
Comparison Com		Pace Anal	ytical Service	es - Green Bay	/					
Methyl-tert-butyl ether	Benzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 19:06	71-43-2	W
Naphthalene Cartest	Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 19:06	100-41-4	W
Coluene Colu	Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 19:06	1634-04-4	W
1,2,4-Trimethylbenzene	Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/24/20 09:30	08/24/20 19:06	91-20-3	W
1,3,5-Trimethylbenzene	Toluene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 19:06	108-88-3	W
Xylene (Total) <75.0 ug/kg 180 75.0 1 08/24/20 09:30 08/24/20 19:06 1330-20-7 W m&p-Xylene <50.0 ug/kg 120 50.0 1 08/24/20 09:30 08/24/20 19:06 179601-23-1 W Do-Xylene <25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 95-47-6 W Surrogates Dibromofluoromethane (S) 106 % 58-145 1 08/24/20 09:30 08/24/20 19:06 1868-53-7 4-Bromofluorobenzene (S) 91 % 52-137 1 08/24/20 09:30 08/24/20 19:06 460-00-4 Folluene-d8 (S) 101 % 56-140 1 08/24/20 09:30 08/24/20 19:06 2037-26-5 Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay	1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 19:06	95-63-6	W
Surrogates Sur	1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 19:06	108-67-8	W
25.0 ug/kg 60.0 25.0 1 08/24/20 09:30 08/24/20 19:06 95-47-6 W Surrogates Dibromofluoromethane (S) 106 % 58-145 1 08/24/20 09:30 08/24/20 19:06 1868-53-7 1 08/24/20 09:30 08/24/20 19:06 1868-53-7 1 08/24/20 09:30 08/24/20 19:06 460-00-4 1 08/24/20 09:30 08/24/20 19:06 2037-26-5 Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay	Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/24/20 09:30	08/24/20 19:06	1330-20-7	W
Surrogates Dibromofluoromethane (S) 106 % 58-145 1 08/24/20 09:30 08/24/20 19:06 1868-53-7 4-Bromofluorobenzene (S) 91 % 52-137 1 08/24/20 09:30 08/24/20 19:06 460-00-4 Foluene-d8 (S) 101 % 56-140 1 08/24/20 09:30 08/24/20 19:06 2037-26-5 Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay	m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/24/20 09:30	08/24/20 19:06	179601-23-1	W
Dibromofluoromethane (S) 106 % 58-145 1 08/24/20 09:30 08/24/20 19:06 1868-53-7 4-Bromofluorobenzene (S) 91 % 52-137 1 08/24/20 09:30 08/24/20 19:06 460-00-4 Foluene-d8 (S) 101 % 56-140 1 08/24/20 09:30 08/24/20 19:06 2037-26-5 Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay	o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:30	08/24/20 19:06	95-47-6	W
4-Bromofluorobenzene (S) 91 % 52-137 1 08/24/20 09:30 08/24/20 19:06 460-00-4 Toluene-d8 (S) 101 % 56-140 1 08/24/20 09:30 08/24/20 19:06 2037-26-5 Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay	Surrogates									
Foluene-d8 (S) 101 % 56-140 1 08/24/20 09:30 08/24/20 19:06 2037-26-5 Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay	` ,					1				
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay	4-Bromofluorobenzene (S)	91	%	52-137		1	08/24/20 09:30	08/24/20 19:06	460-00-4	
Pace Analytical Services - Green Bay	Toluene-d8 (S)	101	%	56-140		1	08/24/20 09:30	08/24/20 19:06	2037-26-5	
,	Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture 12.1 % 0.10 0.10 1 09/01/20 09:37		Pace Anal	ytical Service	es - Green Bay	/					
	Percent Moisture	12.1	%	0.10	0.10	1		09/01/20 09:37		



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-4 (2-3') Lab ID: 40213353006 Collected: 08/20/20 12:20 Received: 08/21/20 09:45 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.	Qua
6010 MET ICP	Analytical	Method: EPA	6010 Prepar	ation Metho	od: EP	A 3050			
	Pace Anal	ytical Service	es - Green Bay	,					
Lead	3.8	mg/kg	2.2	0.66	1	08/25/20 05:45	08/26/20 01:21	7439-92-1	
8260 MSV Med Level Short List	Analytical	Method: EPA	8260 Prepar	ation Metho	od: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	,					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:03	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:03	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:03	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/24/20 09:45	08/25/20 17:03	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:03	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:03	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:03	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/24/20 09:45	08/25/20 17:03	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/24/20 09:45	08/25/20 17:03	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	58-145		1	08/24/20 09:45	08/25/20 17:03	1868-53-7	
4-Bromofluorobenzene (S)	112	%	52-137		1	08/24/20 09:45	08/25/20 17:03	460-00-4	
Toluene-d8 (S)	117	%	56-140		1	08/24/20 09:45	08/25/20 17:03	2037-26-5	
Percent Moisture	Analytical	Method: AST	M D2974-87						
	Pace Anal	ytical Service	es - Green Bay	,					
Percent Moisture	10.3	%	0.10	0.10	1		09/01/20 09:37		



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-4 (4-5') Lab ID: 40213353007 Collected: 08/20/20 12:22 Received: 08/21/20 09:45 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.	Qua
						- - '	<u> </u>	-	
6010 MET ICP	•		A 6010 Prepar		od: EP	A 3050			
	Pace Anal	ytical Service	es - Green Bay	/					
Lead	2.5	mg/kg	2.0	0.60	1	08/25/20 05:45	08/26/20 01:24	7439-92-1	
8260 MSV Med Level Short List	Analytical	Method: EPA	A 8260 Prepar	ation Metho	d: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	/					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:26	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:26	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:26	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/24/20 09:45	08/25/20 17:26	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:26	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:26	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:26	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/24/20 09:45	08/25/20 17:26	1330-20-7	W
n&p-Xylene	<50.0	ug/kg	120	50.0	1	08/24/20 09:45	08/25/20 17:26	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:26	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	58-145		1	08/24/20 09:45	08/25/20 17:26	1868-53-7	
1-Bromofluorobenzene (S)	110	%	52-137		1	08/24/20 09:45	08/25/20 17:26	460-00-4	
Гoluene-d8 (S)	114	%	56-140		1	08/24/20 09:45	08/25/20 17:26	2037-26-5	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
	Pace Anal	ytical Service	es - Green Bay	/					
Percent Moisture	7.1	%	0.10	0.10	1		09/01/20 09:37		



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-5 (2-3') Lab ID: 40213353008 Collected: 08/20/20 12:10 Received: 08/21/20 09:45 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.	Qua
6010 MET ICP	Analytical	Method: FPA	- ——— - \ 6010 Prepar	ation Metho	nd: FP	A 3050		_	
00 10 INE 1 101	•		es - Green Bay		, a. E.	7,0000			
Lead	5.3	mg/kg	2.1	0.62	1	08/25/20 05:45	08/26/20 01:26	7439-92-1	
8260 MSV Med Level Short List	Analytical	Method: EPA	A 8260 Prepar	ation Metho	d: EP	A 5035/5030B			
			es - Green Bay						
Benzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:49	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:49	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:49	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/24/20 09:45	08/25/20 17:49	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:49	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:49	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:49	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/24/20 09:45	08/25/20 17:49	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/24/20 09:45	08/25/20 17:49	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/24/20 09:45	08/25/20 17:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	58-145		1	08/24/20 09:45	08/25/20 17:49	1868-53-7	
4-Bromofluorobenzene (S)	108	%	52-137		1	08/24/20 09:45	08/25/20 17:49	460-00-4	
Toluene-d8 (S)	111	%	56-140		1	08/24/20 09:45	08/25/20 17:49	2037-26-5	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
	Pace Anal	ytical Service	es - Green Bay	/					
Percent Moisture	11.3	%	0.10	0.10	1		09/01/20 09:38		



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-6 (2-3') Lab ID: 40213353009 Collected: 08/20/20 11:40 Received: 08/21/20 09:45 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.	Qua
010 MET ICP	Analytical	Method: EPA	A 6010 Prepar	ation Metho	d: EP	A 3050			
	Pace Anal	ytical Service	es - Green Bay	/					
ead	7.6	mg/kg	2.3	0.68	1	08/25/20 05:45	08/26/20 01:28	7439-92-1	
260 MSV Med Level Short List	Analytical	Method: EPA	A 8260 Prepar	ation Metho	d: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	/					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:31	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:31	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:31	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/25/20 08:00	08/25/20 15:31	91-20-3	W
oluene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:31	108-88-3	W
,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:31	95-63-6	W
,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:31	108-67-8	W
(ylene (Total)	<75.0	ug/kg	180	75.0	1	08/25/20 08:00	08/25/20 15:31	1330-20-7	W
n&p-Xylene	<50.0	ug/kg	120	50.0	1	08/25/20 08:00	08/25/20 15:31	179601-23-1	W
-Xylene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	58-145		1	08/25/20 08:00	08/25/20 15:31	1868-53-7	
-Bromofluorobenzene (S)	88	%	52-137		1	08/25/20 08:00	08/25/20 15:31	460-00-4	
oluene-d8 (S)	102	%	56-140		1	08/25/20 08:00	08/25/20 15:31	2037-26-5	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
	Pace Anal	ytical Service	es - Green Bay	/					



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: DP-6 (3.5-4.5') Lab ID: 40213353010 Collected: 08/20/20 11:40 Received: 08/21/20 09:45 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.	Qua
6010 MET ICP	Analytical	Method: EPA	A 6010 Prepar	ation Metho	d: EP	A 3050			
	Pace Anal	ytical Service	es - Green Bay	/					
Lead	7.2	mg/kg	2.4	0.73	1	08/25/20 05:45	08/26/20 01:31	7439-92-1	
8260 MSV Med Level Short List	Analytical	Method: EPA	8260 Prepar	ation Metho	d: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	/					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:48	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:48	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:48	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/25/20 08:00	08/25/20 15:48	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:48	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:48	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:48	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/25/20 08:00	08/25/20 15:48	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/25/20 08:00	08/25/20 15:48	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 15:48	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	58-145		1	08/25/20 08:00	08/25/20 15:48	1868-53-7	
4-Bromofluorobenzene (S)	92	%	52-137		1	08/25/20 08:00	08/25/20 15:48	460-00-4	
Toluene-d8 (S)	105	%	56-140		1	08/25/20 08:00	08/25/20 15:48	2037-26-5	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
	Pace Anal	ytical Service	es - Green Bay	/					
Percent Moisture	19.4	%	0.10	0.10	1		09/01/20 09:38		



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: WC-082020 Lab ID: 40213353011 Collected: 08/20/20 12:30 Received: 08/21/20 09:45 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 I	MOD DRO P	reparation N	1ethod	: WI MOD DRO			
	Pace Anal	ytical Service	es - Green Ba	у					
Diesel Range Organics	43.1	mg/kg	5.2	1.6	1	08/28/20 08:38	08/31/20 18:48		D5,DC
WIGRO GCV	Analytical	Method: WI I	MOD GRO P	reparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
	Pace Anal	ytical Service	es - Green Ba	у					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	100-41-4	W
Gasoline Range Organics	10.9	mg/kg	6.0	3.0	1	08/26/20 07:45	08/26/20 21:14		GO
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	108-88-3	W
1,2,4-Trimethylbenzene	31.9J	ug/kg	72.1	30.0	1	08/26/20 07:45	08/26/20 21:14	95-63-6	
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/26/20 07:45	08/26/20 21:14	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/26/20 07:45	08/26/20 21:14	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/26/20 07:45	08/26/20 21:14	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	103	%	80-120		1	08/26/20 07:45	08/26/20 21:14	98-08-8	
6010 MET ICP	Analytical	Method: EPA	. 6010 Prepa	ration Metho	od: EP	A 3050			
	Pace Anal	ytical Service	es - Green Ba	у					
Lead	9.5	mg/kg	2.3	0.68	1	08/25/20 05:45	08/26/20 01:33	7439-92-1	
Percent Moisture	Analytical	Method: AST	M D2974-87						
	Pace Anal	ytical Service	es - Green Ba	у					
Percent Moisture	16.7	%	0.10	0.10	1		09/01/20 09:38		
1010 Flashpoint,Closed Cup	Analytical	Method: EPA	1010						
	Pace Anal	ytical Service	es - Green Ba	у					
Flashpoint	>200	deg F			1		08/28/20 14:04		1q
9095 Paint Filter Liquid Test	Analytical	Method: EPA	9095						
-	Pace Anal	ytical Service	es - Green Ba	у					
							08/28/20 04:12		



ANALYTICAL RESULTS

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Sample: TB-082020 Lab ID: 40213353012 Collected: 08/20/20 00:00 Received: 08/21/20 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	,		•		od: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	/					
Benzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	1634-04-4	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/25/20 08:00	08/25/20 12:40	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	108-67-8	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	08/25/20 08:00	08/25/20 12:40	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/25/20 08:00	08/25/20 12:40	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/25/20 08:00	08/25/20 12:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	58-145		1	08/25/20 08:00	08/25/20 12:40	1868-53-7	
4-Bromofluorobenzene (S)	88	%	52-137		1	08/25/20 08:00	08/25/20 12:40	460-00-4	
Toluene-d8 (S)	100	%	56-140		1	08/25/20 08:00	08/25/20 12:40	2037-26-5	



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

QC Batch: 363847

QC Batch Method: TPH GRO/PVOC WI ext.

Analysis Method: WI MOD GRO

Analysis Description: WIGRO Solid GCV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353011

METHOD BLANK: 2103275 Matrix: Solid

Associated Lab Samples: 40213353011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	08/26/20 08:53	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	08/26/20 08:53	
Benzene	ug/kg	<25.0	50.0	08/26/20 08:53	
Ethylbenzene	ug/kg	<25.0	50.0	08/26/20 08:53	
Gasoline Range Organics	mg/kg	<1.2	4.1	08/26/20 08:53	
m&p-Xylene	ug/kg	<50.0	100	08/26/20 08:53	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	08/26/20 08:53	
o-Xylene	ug/kg	<25.0	50.0	08/26/20 08:53	
Toluene	ug/kg	<25.0	50.0	08/26/20 08:53	
Xylene (Total)	ug/kg	<75.0	150	08/26/20 08:53	
a,a,a-Trifluorotoluene (S)	%	102	80-120	08/26/20 08:53	

LABORATORY CONTROL SAMPLE 8	LCSD: 2103276		21	03277						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1070	1050	107	105	80-120	1	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1070	1060	107	106	80-120	1	20	
Benzene	ug/kg	1000	1080	1060	108	106	80-120	1	20	
Ethylbenzene	ug/kg	1000	1070	1060	107	106	80-120	0	20	
Gasoline Range Organics	mg/kg	10	10.6	10.9	106	109	80-120	3	20	
m&p-Xylene	ug/kg	2000	2150	2130	107	107	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	1050	1060	105	106	80-120	1	20	
o-Xylene	ug/kg	1000	1070	1050	107	105	80-120	1	20	
Toluene	ug/kg	1000	1040	1030	104	103	80-120	1	20	
Xylene (Total)	ug/kg	3000	3220	3180	107	106	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				101	102	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.



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Lead

Date: 09/24/2020 06:28 PM

QC Batch: 363656 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353001, 40213353002, 40213353003, 40213353004, 40213353005, 40213353006, 40213353007,

40213353008, 40213353009, 40213353010, 40213353011

METHOD BLANK: 2102215 Matrix: Solid

Associated Lab Samples: 40213353001, 40213353002, 40213353003, 40213353004, 40213353005, 40213353006, 40213353007,

40213353008, 40213353009, 40213353010, 40213353011

Blank Reporting

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 mg/kg
 <0.60</td>
 2.0
 08/26/20 00:26

LABORATORY CONTROL SAMPLE: 2102216

LCS LCS Spike % Rec Units Result % Rec Limits Qualifiers Parameter Conc. Lead mg/kg 50 52.6 105 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102217 2102218

MS MSD

40213362001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 20 Lead 5.8 60.5 60.5 61.7 61.5 92 92 75-125 0 mg/kg

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.



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

QC Batch: 366179 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353005

METHOD BLANK: 2116673 Matrix: Water

Associated Lab Samples: 40213353005

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Lead mg/L <0.0059 0.020 09/23/20 16:02

METHOD BLANK: 2115711 Matrix: Solid

Associated Lab Samples: 40213353005

Blank Reporting Parameter Units Result Limit Analyzed Qualifiers

Lead mg/L <0.0059 0.020 09/23/20 17:21

METHOD BLANK: 2115712 Matrix: Solid

Associated Lab Samples: 40213353005

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Lead mg/L <0.0059 0.020 09/23/20 17:03

METHOD BLANK: 2115713 Matrix: Solid

Associated Lab Samples: 40213353005

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Lead mg/L <0.0059 0.020 09/23/20 17:39

LABORATORY CONTROL SAMPLE: 2116674

Date: 09/24/2020 06:28 PM

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units 0.50 Lead mg/L 0.5 100 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2116675 2116676

MS MSD 40213353005 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Lead mg/L 0.18 0.5 0.5 0.67 0.68 98 75-125 20

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



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

MATRIX SPIKE SAMPLE:	2116677						
		40214715001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Lead	mg/L	<0.030	0.5	0.48	97	75-125	
MATRIX SPIKE SAMPLE:	2116678						
Parameter	Units	40214737001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.015	1.2	1.3	101	75-125	
MATRIX SPIKE SAMPLE:	2116679						
Parameter	Units	40214886001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.0065J	0.5	0.52	102	75-125	
MATRIX SPIKE SAMPLE:	2116680						
Parameter	Units	40214886003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.012	0.5	0.51	103	75-125	
MATRIX SPIKE SAMPLE:	2116681						
Parameter	Units	40214917001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.0059J	0.5	0.50	100	75-125	
MATRIX SPIKE SAMPLE:	2116682						
Parameter	Units	40214924001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.0059	0.5	0.51	102	75-125	
MATRIX SPIKE SAMPLE:	2116683	4004/22222/	0.1			0/ 5	
Parameter	Units	40214928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.047	0.5	0.55	101	75-125	
MATRIX SPIKE SAMPLE:	2116684						
Parameter	Units	40214995001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.94	0.5	1.5	104	75-125	

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



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

QC Batch: 363653 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353002, 40213353003, 40213353004, 40213353005

METHOD BLANK: 2102207 Matrix: Solid

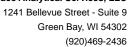
Associated Lab Samples: 40213353002, 40213353003, 40213353004, 40213353005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
A O A Triangular distribution					
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	08/24/20 11:09	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	08/24/20 11:09	
Benzene	ug/kg	<12.5	42.0	08/24/20 11:09	
Ethylbenzene	ug/kg	<14.5	50.0	08/24/20 11:09	
m&p-Xylene	ug/kg	<32.4	108	08/24/20 11:09	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	08/24/20 11:09	
Naphthalene	ug/kg	<27.3	91.0	08/24/20 11:09	
o-Xylene	ug/kg	<18.1	60.0	08/24/20 11:09	
Toluene	ug/kg	<13.1	50.0	08/24/20 11:09	
Xylene (Total)	ug/kg	<50.5	168	08/24/20 11:09	
4-Bromofluorobenzene (S)	%	83	52-137	08/24/20 11:09	
Dibromofluoromethane (S)	%	94	58-145	08/24/20 11:09	
Toluene-d8 (S)	%	94	56-140	08/24/20 11:09	

LABORATORY CONTROL SAMPLE:	2102208					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/kg	2500	2670	107	70-130	
Ethylbenzene	ug/kg	2500	2440	98	80-120	
m&p-Xylene	ug/kg	5000	4810	96	70-130	
Methyl-tert-butyl ether	ug/kg	2500	1970	79	70-130	
o-Xylene	ug/kg	2500	2340	94	70-130	
Toluene	ug/kg	2500	2410	96	80-120	
Xylene (Total)	ug/kg	7500	7150	95	70-130	
4-Bromofluorobenzene (S)	%			95	52-137	
Dibromofluoromethane (S)	%			107	58-145	
Toluene-d8 (S)	%			101	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102209 MS 10040004000					2102210							
		0213361002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/kg	<25.0	1390	1390	1580	1570	114	113	70-130	0	20	
Ethylbenzene	ug/kg	<25.0	1390	1390	1420	1420	103	102	80-120	0	20	
m&p-Xylene	ug/kg	<50.0	2770	2770	2760	2730	100	99	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1390	1390	813	1410	59	102	70-130	54	20	M1,R1
o-Xylene	ug/kg	<25.0	1390	1390	1360	1380	98	100	70-130	2	20	

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





Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

MATRIX SPIKE & MATRIX SF	IKE DUPLIC	CATE: 2102	209 MS	MSD	2102210							
	4	0213361002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Toluene	ug/kg	<25.0	1390	1390	1450	1420	105	103	80-120	2	20	
Xylene (Total)	ug/kg	<75.0	4160	4160	4110	4120	99	99	70-130	0	20	
4-Bromofluorobenzene (S)	%						116	114	52-137			
Dibromofluoromethane (S)	%						131	133	58-145			
Toluene-d8 (S)	%						122	125	56-140			



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

QC Batch: 363657 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353006, 40213353007, 40213353008

METHOD BLANK: 2102219 Matrix: Solid

Associated Lab Samples: 40213353006, 40213353007, 40213353008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	— ———ug/kg	- ————————————————————————————————————	60.0	08/25/20 15:09	
• •	• •	_			
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	08/25/20 15:09	
Benzene	ug/kg	<12.5	42.0	08/25/20 15:09	
Ethylbenzene	ug/kg	<14.5	50.0	08/25/20 15:09	
m&p-Xylene	ug/kg	<32.4	108	08/25/20 15:09	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	08/25/20 15:09	
Naphthalene	ug/kg	<27.3	91.0	08/25/20 15:09	
o-Xylene	ug/kg	<18.1	60.0	08/25/20 15:09	
Toluene	ug/kg	<13.1	50.0	08/25/20 15:09	
Xylene (Total)	ug/kg	<50.5	168	08/25/20 15:09	
4-Bromofluorobenzene (S)	%	107	52-137	08/25/20 15:09	
Dibromofluoromethane (S)	%	104	58-145	08/25/20 15:09	
Toluene-d8 (S)	%	108	56-140	08/25/20 15:09	

LABORATORY CONTROL SAMPLE:	2102220					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/kg	2500	2470	99	70-130	
Ethylbenzene	ug/kg	2500	2530	101	80-120	
m&p-Xylene	ug/kg	5000	5100	102	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2630	105	70-130	
o-Xylene	ug/kg	2500	2530	101	70-130	
Toluene	ug/kg	2500	2420	97	80-120	
Xylene (Total)	ug/kg	7500	7630	102	70-130	
4-Bromofluorobenzene (S)	%			102	52-137	
Dibromofluoromethane (S)	%			99	58-145	
Toluene-d8 (S)	%			101	56-140	

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.



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

QC Batch: 363760 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353001, 40213353009, 40213353010, 40213353012

METHOD BLANK: 2102488 Matrix: Solid

Associated Lab Samples: 40213353001, 40213353009, 40213353010, 40213353012

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	08/25/20 11:15	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	08/25/20 11:15	
Benzene	ug/kg	<12.5	42.0	08/25/20 11:15	
Ethylbenzene	ug/kg	<14.5	50.0	08/25/20 11:15	
m&p-Xylene	ug/kg	<32.4	108	08/25/20 11:15	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	08/25/20 11:15	
Naphthalene	ug/kg	<27.3	91.0	08/25/20 11:15	
o-Xylene	ug/kg	<18.1	60.0	08/25/20 11:15	
Toluene	ug/kg	<13.1	50.0	08/25/20 11:15	
Xylene (Total)	ug/kg	<50.5	168	08/25/20 11:15	
4-Bromofluorobenzene (S)	%	77	52-137	08/25/20 11:15	
Dibromofluoromethane (S)	%	93	58-145	08/25/20 11:15	
Toluene-d8 (S)	%	90	56-140	08/25/20 11:15	

LABORATORY CONTROL SAMPLE	E: 2102489					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/kg	2500	2610	104	70-130	
Ethylbenzene	ug/kg	2500	2320	93	80-120	
m&p-Xylene	ug/kg	5000	4560	91	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2240	89	70-130	
o-Xylene	ug/kg	2500	2260	90	70-130	
Toluene	ug/kg	2500	2360	95	80-120	
Xylene (Total)	ug/kg	7500	6820	91	70-130	
4-Bromofluorobenzene (S)	%			92	52-137	
Dibromofluoromethane (S)	%			104	58-145	
Toluene-d8 (S)	%			100	56-140	

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.



QUALITY CONTROL DATA

Project:

60631378 USH 8, TONY, WI

Pace Project No.:

40213353

QC Batch:

QC Batch Method:

364088

WI MOD DRO

Analysis Method:

WI MOD DRO

Analysis Description:

WIDRO GCS

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples:

40213353011

METHOD BLANK: 2104446

Matrix: Solid

Associated Lab Samples:

Parameter

40213353011

Blank

Result

Reporting Limit

Analyzed

Qualifiers

Diesel Range Organics

Units mg/kg

<1.3

08/31/20 17:44

LABORATORY CONTROL SAMPLE & LCSD:

2104447

2104448 LCSD

LCS LCSD % Rec % Rec

% Rec

Max RPD

Qualifiers

Parameter Diesel Range Organics

Units

Spike Conc.

Result

LCS

Result 30.2

74

Limits

RPD

Date: 09/24/2020 06:28 PM

mg/kg

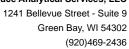
40

29.5

76

70-120

2





Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

QC Batch: 364349 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

> Pace Analytical Services - Green Bay Laboratory:

40213353001, 40213353002, 40213353003, 40213353004, 40213353005, 40213353006, 40213353007, 4021335007, 4021335007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 40213007, 4021007, 402Associated Lab Samples:

40213353008, 40213353009, 40213353010, 40213353011

SAMPLE DUPLICATE: 2105670

Date: 09/24/2020 06:28 PM

		40213353010	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	19.4	19.1	2	10	_



Project:

60631378 USH 8, TONY, WI

Pace Project No.:

40213353

QC Batch:

QC Batch Method:

364118

EPA 1010

Analysis Method:

EPA 1010

Analysis Description:

1010 Flash Point, Closed Cup

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples:

LABORATORY CONTROL SAMPLE:

40213353011

2104634

Spike Conc.

LCS Result LCS

% Rec

% Rec

Limits Qualifiers

Parameter Flashpoint

Units deg F

83.0

SAMPLE DUPLICATE: 2104906

40213672001 Result

Dup Result

RPD

Max **RPD**

Qualifiers

Parameter

Date: 09/24/2020 06:28 PM

Flashpoint

Units deg F

>200

>200



Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

QC Batch: 364063

QC Batch Method: EPA 9095

Analysis Method:

EPA 9095

Analysis Description:

9095 PAINT FILTER LIQUID TEST

Laboratory:

Blank

Result

Pace Analytical Services - Green Bay

Associated Lab Samples: 40213353011

METHOD BLANK: 2104356

Matrix: Solid

Associated Lab Samples:

40213353011

Units

Reporting

Limit Analyzed

Qualifiers

Free Liquids

no units

Fail

08/28/20 04:10

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

2104357

Spike Conc. LCS Result LCS % Rec % Rec Limits

Qualifiers

Free Liquids

Units no units

Units

Pass

SAMPLE DUPLICATE: 2104358

Date: 09/24/2020 06:28 PM

Parameter

40213

40213353011

Dup Result

RPD

Max RPD

Qualifiers

Free Liquids

no units

Pass

Result

Pass



QUALIFIERS

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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)

RPD value was outside control limits.

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

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.

WORKORDER QUALIFIERS

WO: 40213353

[1] Revised report per client request to add TCLP Lead to sample DP-3 (3-4¿) (40213353005). 9/24/20 CDH

ANALYTE QUALIFIERS

R1

W

Date: 09/24/2020 06:28 PM

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.
D5	The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications.
DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
GO	Early and late peaks present outside the GRO window.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60631378 USH 8, TONY, WI

Pace Project No.: 40213353

Date: 09/24/2020 06:28 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40213353011	WC-082020	WI MOD DRO	364088	WI MOD DRO	364114
40213353011	WC-082020	TPH GRO/PVOC WI ext.	363847	WI MOD GRO	363871
40213353001	DP-1 (2-3')	EPA 3050	363656	EPA 6010	363783
40213353002	DP-2 (1-2')	EPA 3050	363656	EPA 6010	363783
40213353003	DP-2 (4-4.5')	EPA 3050	363656	EPA 6010	363783
40213353004	DP-3 (1-2')	EPA 3050	363656	EPA 6010	363783
10213353005	DP-3 (3-4')	EPA 3050	363656	EPA 6010	363783
10213353006	DP-4 (2-3')	EPA 3050	363656	EPA 6010	363783
10213353007	DP-4 (4-5')	EPA 3050	363656	EPA 6010	363783
0213353008	DP-5 (2-3')	EPA 3050	363656	EPA 6010	363783
0213353009	DP-6 (2-3')	EPA 3050	363656	EPA 6010	363783
10213353010	DP-6 (3.5-4.5')	EPA 3050	363656	EPA 6010	363783
0213353011	WC-082020	EPA 3050	363656	EPA 6010	363783
0213353005	DP-3 (3-4')	EPA 3010	366179	EPA 6010	366280
10213353001	DP-1 (2-3')	EPA 5035/5030B	363760	EPA 8260	363762
0213353002	DP-2 (1-2')	EPA 5035/5030B	363653	EPA 8260	363655
0213353003	DP-2 (4-4.5')	EPA 5035/5030B	363653	EPA 8260	363655
0213353004	DP-3 (1-2')	EPA 5035/5030B	363653	EPA 8260	363655
0213353005	DP-3 (3-4')	EPA 5035/5030B	363653	EPA 8260	363655
0213353006	DP-4 (2-3')	EPA 5035/5030B	363657	EPA 8260	363662
0213353007	DP-4 (4-5')	EPA 5035/5030B	363657	EPA 8260	363662
0213353008	DP-5 (2-3')	EPA 5035/5030B	363657	EPA 8260	363662
0213353009	DP-6 (2-3')	EPA 5035/5030B	363760	EPA 8260	363762
0213353010	DP-6 (3.5-4.5')	EPA 5035/5030B	363760	EPA 8260	363762
0213353012	TB-082020	EPA 5035/5030B	363760	EPA 8260	363762
0213353001	DP-1 (2-3')	ASTM D2974-87	364349		
0213353002	DP-2 (1-2')	ASTM D2974-87	364349		
0213353003	DP-2 (4-4.5')	ASTM D2974-87	364349		
0213353004	DP-3 (1-2')	ASTM D2974-87	364349		
0213353005	DP-3 (3-4')	ASTM D2974-87	364349		
0213353006	DP-4 (2-3')	ASTM D2974-87	364349		
0213353007	DP-4 (4-5')	ASTM D2974-87	364349		
0213353008	DP-5 (2-3')	ASTM D2974-87	364349		
0213353009	DP-6 (2-3')	ASTM D2974-87	364349		
0213353010	DP-6 (3.5-4.5')	ASTM D2974-87	364349		
0213353011	WC-082020	ASTM D2974-87	364349		
10213353011	WC-082020	EPA 1010	364118		
10213353011	WC-082020	EPA 9095	364063		

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PACE LAB#	 	Soil Sludge COLLI DATE	WW = Wast WP = Wipe ECTION TIME	MATRIX	Ana	PVCC + MAPH	Lead	Protocol	13 3	30	A				IENT MENTS		OMMENTS Use Only)	Profile #
001	DP-1 (2-3')	8/20/20		S	100	X	X									•	••	
002	DP-2 (1-2')	8/20/20	\$16576A85656A85			K	K											
003	DP-2 (4-4.5')	8/20/20	\$250 SOC \$200 (\$250)	0.500,000,000,000,005		X	X											
004	DP-3 (1-2')	8/20/20	100000000000000000000000000000000000000			X	X											
005	DP-3 (3-4')	8/24/20		S		X	∇											
006	DP-4 (2-3)	8/20/20				X	X											
007	DP-4 (4-5)	8/28/20		parameter ()		X	X											
008	DP-5 (2-3)	8/20/20		S		∇	X											
009	· · · · · · · · · · · · · · · · · · ·	8/20/20	000000000000000000000000000000000000000	5		X	X									- - 2 - 12		
010		8/20/20		5		∇	X											
011	WC-0820ZO	8/20/20						X	K	x	x	8/21/20						
012		8/20/20				\times						10/5						
(Rush TA	naround Time Requested - Prelims AT subject to approval/surcharge) Date Needed:	Le	uished By	ÜŲ	Hi	h	>	te/Time: 8/2 te/Time:	1547	020	Receive Receive		т.	\mathcal{N}	Date/Time:		PACE Pro	ect No.
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elephone:		Relinqu	uished By:				Dat	e/Time:			Receive	d By:			Date/Time:		OK / Adj	usted
	nples on HOLD are subject to al pricing and release of liability	Reling	uished By:				Dat	e/Time:			Receive	i By:			Date/Time:		Cooler Cust Presenty No Intact / No	t Present

Sample Preservation Receipt Form Project # 40213353

Pace Analytical Services, LLC 1241 Bellevue Street, Suite 95 Green Bay, WI 54302₩

Client Name: ACOM All containers needing preservation have been checked and noted below: DYes DNo Initial when Date/ completed: Time: Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): 'OA Vials (>6mm) 표 after adjusted Glass **Plastic Vials** Jars General JaOH+Zn Act 12SO4 pH ≤2 IaOH pH ≥12 Volume pH ≤2 (mL) WGFU AG1H AG10 BG1U AG4S AG40 AG5U **VG9M** WPFU AG2S BG3U JGFU **BP1U BP3U BP3B BP3N BP3S** VG9A DG9T **VG9**U H69/ VG9D JG9U ZPLC **SP5T** Pace S Lab# 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 <u>a</u> 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 IID 2.5 / 5 / 10 017 2.5 / 5 / 10 018 2.5 / 5 / 10 019 2.5 / 5 / 10 020 2.5/5/10 Headspace in VOA Vials (>6mm): □Yes □No →NA *If yes look in headspace column Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: AG1U 1 liter amber glass BP1U 1 liter plastic unpres VG9A 40 mL clear ascorbic **JGFU** 4 oz amber jar unpres BG1U 1 liter clear glass BP3U 250 mL plastic unpres DG9T 40 mL amber Na Thio JG9U 9 oz amber jar unpres AG1H 1 liter amber glass HCL BP3B 250 mL plastic NaOH VG9U 40 mL clear vial unpres WGFU 4 oz clear jar unpres AG4S 125 mL amber glass H2SO4 BP3N 250 mL plastic HNO3 VG9H 40 mL clear vial HCL WPFU 4 oz plastic jar unpres AG4U 120 mL amber glass unpres 250 mL plastic H2SO4 BP3S VG9M 40 mL clear vial MeOH SP5T 120 mL plastic Na Thiosulfate AG5U 100 mL amber glass unpres VG9D 40 mL clear vial DI **ZPLC** ziploc bag

GN

AG2S 500 mL amber glass H2SO4

BG3U 250 mL clear glass unpres

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Sample Condition Upon Receipt (SCUR)

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Author:

Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name:ALCOM	Project #: WO#: 40213353
Courier: CS Logistics Fed Ex Specific Pace Other: Tracking #: 7707 2750	edee ☐ UPS ☐ Waltco 40213353
Custody Seal on Cooler/Box Present: Eye	s C no Seals intact: See C no
Custody Seal on Samples Present: yes	Seals intact: Tyes T no
Packing Material: Bubble Wrap	ubble Bags None Other
Inermometer Used SR - NA	Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: Lo L /Corr	Person examining contents:
Temp Blank Present: yes no	Biological Tissue is Frozen: yes no Date: 8/2/24nitials:
Temp should be above freezing to 6°C. [/] Biota Samples may be received at ≤ 0°C if shipped or	Dry Ice
Chain of Custody Present:	Labeled By Initials:
Chain of Custody Filled Out: MUG-21-3	WATES (DIO DN/A 2.C)2 motox MARS 21.20)
Chain of Custody Relinquished:	1
Sampler Name & Signature on COC:	⊠Yes □No □N/A 4.
Samples Arrived within Hold Time:	Mayes □No 5.
- VOA Samples frozen upon receipt	☐Yes ☐No Date/Time:
Short Hold Time Analysis (<72hr):	□Yes Mo 6.
Rush Turn Around Time Requested:	□Yes Seto 7.
Sufficient Volume:	8.
For Analysis: Ş≪es □no MS/M	SD: 🗆 Yes 🖼 🗖 🗆 N/A
Correct Containers Used:	ØYes □No 9. DRO NO headsface.
-Pace Containers Used:	Aves DNO DNA
-Pace IR Containers Used:	Yes ONO SKIA
Containers Intact:	5Aes □No 10.
Filtered volume received for Dissolved tests	□Yes □No EANA 11.
Sample Labels match COC:	DYes AND DNA 12.008 - Mech vial ID "OP-3(2-3) placed
-Includes date/time/ID/Analysis Matrix:	S by time-
Trip Blank Present:	Ares ONO ON/A 13. No death units: VCAMS: 000,003,000
Trip Blank Custody Seals Present	Thes The This Cosicio, WPPUS: 003,000,007. This of the
Pace Trip Blank Lot # (if purchased): 100 (50)	NB MED HOW ON MESCAL-3, OCOUPTIL MILES
Client Notification/ Resolution:	If checked, see attached form for additional comments
Person Contacted: Comments/ Resolution:	Date/Time:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir



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