



February 22, 2022

Mr. Andrew James
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313

**RE: Status Update
Da Swamp Bar
W2490 Hofa Park Drive, Town of Maple Grove, WI
Endeavor Project No. P212922.45**

BRRTS No. 03-59-547440

Andy:

The following information provides a status update for environmental activities performed at the above referenced site. Figures 1 and B.1.a. illustrates the site location.

Summary of Environmental Activities

Endeavor Environmental Services, Inc. (Endeavor) collected a round of groundwater samples of the well network on December 29, 2021. Figure B.1.b.1 provides a Detailed Site Map. The groundwater elevations were measured for monitoring wells MW-1 thru MW-3, MW-5R, MW-10, MW-20, MW-21 and piezometer PZ-1. Groundwater samples were collected via hand bailer, preserved and submitted to Pace Analytical Services, LLC (Pace) of Green Bay, WI, for laboratory analysis of petroleum volatile organic compounds (PVOCs) plus naphthalene.

Groundwater Analytical Results

Groundwater sample MW-2 reported detections of benzene (613 ppb), ethylbenzene (123 ppb), toluene (629 ppb), total xylenes (496 ppb), total trimethylbenzenes (TMBs) (99.1 ppb) and naphthalene (18.4 ppb). Groundwater sample MW-5R reported detections of benzene (297 ppb), ethylbenzene (1,850 ppb), toluene (1,840 ppb), total xylenes (8,530 ppb), total TMBs (3,739 ppb) and naphthalene (736 ppb). Groundwater sample MW-10 reported detections of benzene (332 ppb), ethylbenzene (964 ppb), toluene (205 ppb), total xylenes (3,883 ppb), total TMBs (1,343 ppb) and naphthalene (313 ppb). Groundwater sample for MW-20 reported a detection of methyl-tert-butyl ether (47 ppb). Table A.1. provides a summary of historical groundwater analytical results. The groundwater sample laboratory analytical report is found in Attachment A.

Findings

Groundwater elevation data illustrates a significant drop in groundwater depth between the 06/02/2020 and 12/29/2021 sampling events. Specifically, in monitoring wells MW-10 and

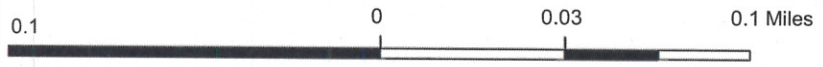


Figure 1 - Site Location



Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Facility-wide Site



NAD_1983_HARN_Wisconsin_TM

1:1,980

© Latitude Geographics Group Ltd.

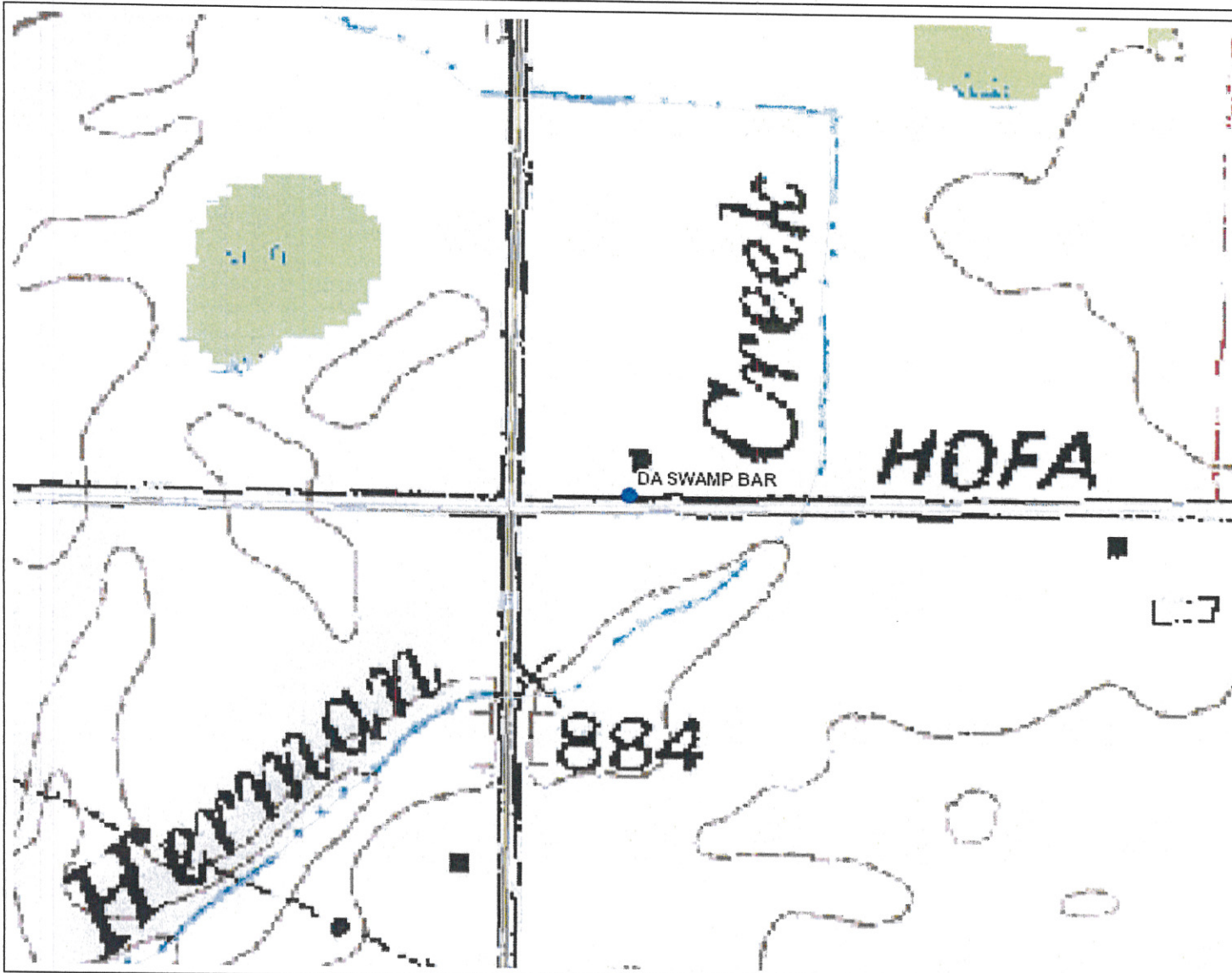
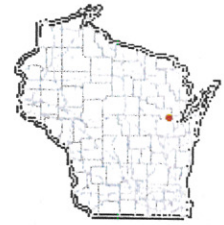
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Note: Not all sites are mapped.

Notes



B.1.a. Location Map



Legend

- Open Site

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

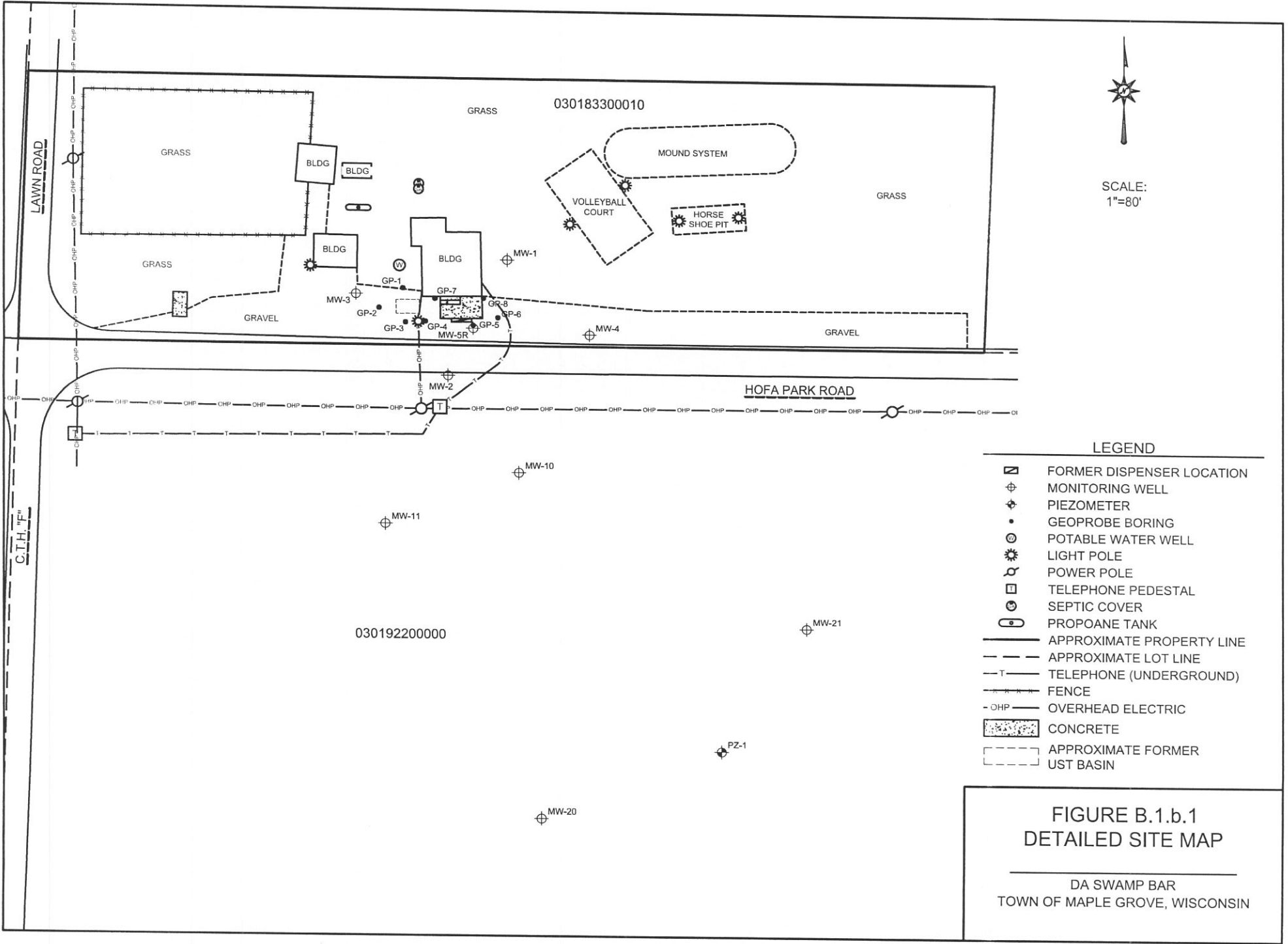
1: 3,960



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Note: Not all sites are mapped.

Notes



SCALE:
1"=80'

LEGEND

- FORMER DISPENSER LOCATION
- MONITORING WELL
- PIEZOMETER
- GEOPROBE BORING
- POTABLE WATER WELL
- LIGHT POLE
- POWER POLE
- TELEPHONE PEDESTAL
- SEPTIC COVER
- PROPOANE TANK
- APPROXIMATE PROPERTY LINE
- APPROXIMATE LOT LINE
- TELEPHONE (UNDERGROUND)
- FENCE
- OVERHEAD ELECTRIC
- CONCRETE
- APPROXIMATE FORMER UST BASIN

**FIGURE B.1.b.1
DETAILED SITE MAP**

DA SWAMP BAR
TOWN OF MAPLE GROVE, WISCONSIN

Table A.1.
Groundwater Analytical Table
Da Swamp Bar
Pulaski, Wisconsin

Sample ID	Sample Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	Total TMBs	MTBE	Naphthalene	cis - 1, 2 Dichloroethene	sec-Butylbenzene	n-Butylbenzene	Isopropyl benzene	n-Propyl benzene	p-Isopropyl toluene	Groundwater Depth (bgs)	Groundwater Elevation (above msl)
GP-3	12/12/2013	5.0	4.4	0.92 J	7.7	12.4	<0.23	4.1 J	<0.35	<0.33	<0.35	5.3	11.2	<0.31	--	--
GP-5	12/12/2013	10,900	3,800	43,000	16,700	3180 J	<46	1,120	<76	<66	82 J	98 J	320	<62	--	--
GP-6	12/12/2013	86	271	29.9	464	947	<2.3	102	<3.8	13.6	65	29.2	144	5.6 J	--	--
MW-1	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	<0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	<0.40	5.50	880.58
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	4.90	881.18
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	6.61	879.47
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	4.30	881.78
	12/29/2021	<0.30	<0.33	<0.29	<1.05	<0.81	<1.1	<1.1	NA	NA	NA	NA	NA	NA	5.40	880.68
MW-2	12/27/2013	12,600	1,440	11,900	5,690	1,266	288	<250	<41.9	<60.5	<40.0	38.0 J	122	<39.7	6.46	880.2
	3/12/2018	2,990	301	2,960	1,213	267.5	22.3 J	78.5	NA	NA	NA	NA	NA	NA	6.06	880.6
	8/14/2018	184	24.7	108	65.2	13.1 J	1.8 J	5.2	NA	NA	NA	NA	NA	NA	7.53	879.13
	11/30/2018	494	124	609	383	69.8	2.9 J	19.3	NA	NA	NA	NA	NA	NA	5.25	881.41
	12/29/2021	613	123	629	496	99.1	<2.8	18.4	NA	NA	NA	NA	NA	NA	6.65	880.01
MW-3	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	<0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	<0.40	6.50	880.31
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	6.15	880.66
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	7.50	879.31
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	5.29	881.52
	12/29/2021	<0.30	<0.33	<0.29	<1.05	<0.81	<1.1	<1.1	NA	NA	NA	NA	NA	NA	6.57	880.24
MW-4	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	<0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	<0.40	5.67	880.5
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	5.22	880.95
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.67	NA	NA	NA	NA	NA	NA	6.75	879.42
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	4.49	881.68
	12/29/2021	Unable to sample - weelbox and casing damaged by plow														
MW-5	12/27/2013	8,650	2,980	35,900	15,600	2,933	<197	<1000	<168	<242	<160	<136	272 J	<159	6.47	--
MW-5R	3/12/2018	665	2,760	7,240	12,190	3,969	<48.5	865	NA	NA	NA	NA	NA	NA	6.07	880.71
	8/14/2018	227	1,420	1,270	5,510	2,746	<12.8	618	NA	NA	NA	NA	NA	NA	7.51	879.27
	11/30/2018	215	1,760	2,240	6,940	2,944	<16.0	605	NA	NA	NA	NA	NA	NA	5.30	881.48
	12/29/2021	297	1,850	1,840	8,530	3,739	<56.5	736	NA	NA	NA	NA	NA	NA	5.02	881.76
MW-10	2/4/2014	600	1,800	242	5,610	1,920	<11.5	430	<19	<16.5	24 J	59	182	<15.5	7.44	876.72
	3/12/2018	208	1,010	95.5	3,760	1,190	12.9 J	354	NA	NA	NA	NA	NA	NA	3.74	880.42
	8/14/2018	855	1,120	746	3,550	1,398	12.1	418	NA	NA	NA	NA	NA	NA	5.24	878.92
	11/30/2018	704	1,320	275	4,290	1,465	12.8 J	389	NA	NA	NA	NA	NA	NA	3.00	881.16
	6/2/2020	1,780	1,950	1,580	7,840	1,745	<49.8	315	NA	NA	NA	NA	NA	NA	1.90	882.26
	12/29/2021	332	964	205	3,883	1,343	<22.6	313	NA	NA	NA	NA	NA	NA	4.05	880.11
MW-11	2/4/2014	<0.24	<0.55	<0.69	<1.32	<3.6	0.28 J	<1.7	<0.38	<0.33	<0.35	<0.3	<0.25	<0.31	9.28	875.65
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	6.05	878.88
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	7.25	877.68
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	4.96	879.97
MW-20	3/12/2018	13.4	5.4	0.56 J	2.44 J	2.12	9.9	1.1	NA	NA	NA	NA	NA	NA	3.65	878.63
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	6.6	<0.51	NA	NA	NA	NA	NA	NA	4.95	877.33
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	5.9	<0.51	NA	NA	NA	NA	NA	NA	2.99	879.29
	6/2/2020	24.3	2.4	0.32 J	<0.73	3.7	2.7 J	<1.2	NA	NA	NA	NA	NA	NA	2.04	882.12
	12/29/2021	<0.30	<0.33	<0.29	<1.05	<0.81	47.0	<1.1	NA	NA	NA	NA	NA	NA	3.94	878.34
MW-21	3/12/2018	<0.40	0.46 J	0.66 J	1.8 J	1.37 J	<0.48	0.55 J	NA	NA	NA	NA	NA	NA	4.32	879.17
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	5.64	877.85
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	3.47	880.02
	6/2/2020	<0.25	<0.32	<0.27	<0.73	1.71	<1.2	<1.2	NA	NA	NA	NA	NA	NA	2.48	881.68
	12/29/2021	<0.30	<0.33	<0.29	<1.05	<0.81	<1.1	<1.1	NA	NA	NA	NA	NA	NA	4.22	879.27
PZ-1	3/12/2018	<0.40	0.48 J	<0.39	<1.25	1.12 J	0.85 J	1.2	NA	NA	NA	NA	NA	NA	4.75	878.99
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	5.86	877.88
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	3.47	880.27
	12/29/2021	<0.30	<0.33	<0.29	<1.05	<0.81	<1.1	<1.1	NA	NA	NA	NA	NA	NA	4.82	878.92
SUMP	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	<0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	<0.40	--	--
	3/24/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	--	--
POTABLE	12/27/2013	<0.24	<0.21	<0.22	<0.39	<0.50	<0.25	<0.50	<0.23	<0.25	<0.24	<0.12	<0.25	<0.25	--	--
	3/24/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	--	--
NR 140 enforcement standard		5	700	800	2,000	480	60	100	70	NS	NS	NS	NS	NS	--	--
NR 140 preventive action limit		0.5	140	160	400	96	12	10	7	NS	NS	NS	NS	NS	--	--

Notes: (J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
All concentrations reported are in parts per billion (ug/L)
Bold value represents exceedance of NR 140 enforcement standard
Italic value represents exceedance of NR 140 preventive action limit
TMB: trimethylbenzene NS: no standard
MTBE: methyl tert-butyl ether NA: not analyzed/ not applicable
bgs: below ground surface msl: mean sea level



MW-20 the depth increased 2.15 feet and 1.9 feet, respectively. As a result, contaminant results in both monitoring points reported a significant drop in contaminant levels. Figure B.3.b. illustrates the groundwater isoconcentration associated with the 12/29/2021, sampling event.

Based upon the direct observed correlation between groundwater elevation and contaminant concentrations, additional groundwater monitoring does not appear warranted at this time.

This account is significantly past due and the RP has not submitted any payment as of the date of this update. Endeavor completed the additional groundwater sampling in good faith. The remaining additional work (vapor assessment) will not be completed until this account is made current.

Conditions

The opinions rendered in this correspondence are based upon the information collected during the above outlined activities and represents Endeavor's professional judgment regarding the status of the above referenced site and, as such, are not a guarantee. Endeavor's professional judgment is based upon generally accepted environmental practices and procedures designed to assess environmental liability with respect to current and customary standards of due care in the consulting industry at this time.

The services provided by Endeavor personnel during this project have been conducted in a manner consistent with the degree, care, and technical skill exercised by environmental consulting professionals currently practiced in this area under similar budget and time constraints. Beyond this, no warranty is implied or expressed. This letter does not constitute legal advice, nor does Endeavor purport to provide legal advice.

If you have any questions regarding the information contained in this update, please feel free to contact me at (920) 437-2997 or (920) 737-5313 at your convenience.

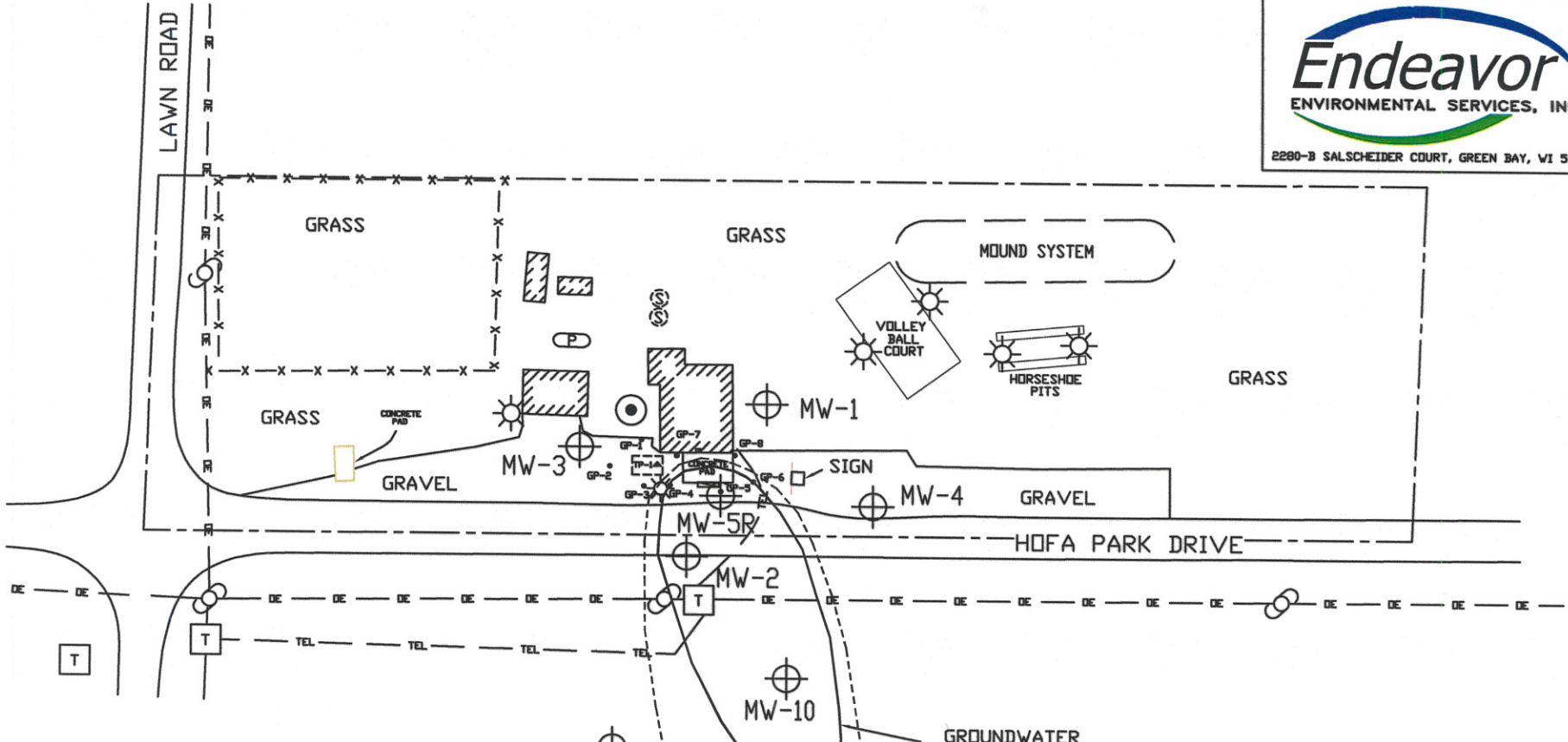
Sincerely,

A handwritten signature in black ink, appearing to read "J.M. Ramcheck".

Joseph M. Ramcheck, P.H.
Senior Hydrologist

I, Joseph M. Ramcheck, hereby certify that I am a hydrogeologist as that term is defined in s. NR712.03(1), Wis. Adm. Code, am registered in accordance with requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR700 to 726, Wis. Adm. Code.

Cc: Lee Van Gheem, Responsible Party
File



LEGEND

- APPROXIMATE PROPERTY LINE
- ⊕ PROPANE TANK
- ⊙ TELEPHONE PEDESTAL
- ⊙ POWER POLE
- * LIGHT POLE
- ⊙ SEPTIC COVER
- ⊕ MONITORING WELL
- ⊕ PEISOMETER
- ⊙ POTABLE WELL
- x - FENCE
- DE - OVERHEAD ELECTRIC
- TEL - UNDERGROUND TELEPHONE
- GEOPROBE BORING
- ▲ TEST PIT
- ⊠ BASEMENT SUMP
- ▨ FORMER DISPENSER LOCATION
- ⊠ APPROXIMATE FORMER UST BASIN

FIGURE B.3.b.
GROUNDWATER ISOCONCENTRATION
DA SWAMP BAR
MAPLE GROVE, WISCONSIN

SCALE 1" = 80'	SHEET NO. 1 OF 1	DWG NO. P101399.40.B.3.b.	DATE 6/17/20	SIZE A	DRWN BY SVD	FILE 528	REVISED SV	DATE 12/15/20
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ATTACHMENT A

Groundwater Sample Laboratory Analytical Report



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

January 10, 2022

Joe Ramcheck
Endeavor Environmental Services, Inc.
2280-B Salscheider Court
Green Bay, WI 54313

RE: Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

Dear Joe Ramcheck:

Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2021. 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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238996001	MW-1	Water	12/29/21 13:26	12/30/21 10:33
40238996002	MW-3	Water	12/29/21 13:51	12/30/21 10:33
40238996003	PZ-1	Water	12/29/21 14:40	12/30/21 10:33
40238996004	MW-21	Water	12/29/21 15:00	12/30/21 10:33
40238996005	MW-20	Water	12/29/21 15:11	12/30/21 10:33
40238996006	MW-2	Water	12/29/21 15:30	12/30/21 10:33
40238996007	MW-5R	Water	12/29/21 14:10	12/30/21 10:33
40238996008	MW-10	Water	12/29/21 15:45	12/30/21 10:33
40238996009	TRIP BLANK	Water	12/29/21 00:00	12/30/21 10:33

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238996001	MW-1	EPA 8260	LAP	12	PASI-G
40238996002	MW-3	EPA 8260	LAP	12	PASI-G
40238996003	PZ-1	EPA 8260	LAP	12	PASI-G
40238996004	MW-21	EPA 8260	LAP	12	PASI-G
40238996005	MW-20	EPA 8260	LAP	12	PASI-G
40238996006	MW-2	EPA 8260	LAP	12	PASI-G
40238996007	MW-5R	EPA 8260	LAP	12	PASI-G
40238996008	MW-10	EPA 8260	LAP	12	PASI-G
40238996009	TRIP BLANK	EPA 8260	JAV	12	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40238996005	MW-20					
EPA 8260	Methyl-tert-butyl ether	47.0	ug/L	5.0	01/04/22 18:23	
40238996006	MW-2					
EPA 8260	Benzene	613	ug/L	2.5	01/04/22 18:42	
EPA 8260	Ethylbenzene	123	ug/L	2.5	01/04/22 18:42	
EPA 8260	Naphthalene	18.4	ug/L	12.5	01/04/22 18:42	
EPA 8260	Toluene	629	ug/L	2.5	01/04/22 18:42	
EPA 8260	1,2,4-Trimethylbenzene	80.7	ug/L	2.5	01/04/22 18:42	
EPA 8260	1,3,5-Trimethylbenzene	18.4	ug/L	2.5	01/04/22 18:42	
EPA 8260	m&p-Xylene	356	ug/L	5.0	01/04/22 18:42	
EPA 8260	o-Xylene	140	ug/L	2.5	01/04/22 18:42	
40238996007	MW-5R					
EPA 8260	Benzene	297	ug/L	50.0	01/04/22 19:00	
EPA 8260	Ethylbenzene	1850	ug/L	50.0	01/04/22 19:00	
EPA 8260	Naphthalene	736	ug/L	250	01/04/22 19:00	
EPA 8260	Toluene	1840	ug/L	50.0	01/04/22 19:00	
EPA 8260	1,2,4-Trimethylbenzene	3050	ug/L	50.0	01/04/22 19:00	
EPA 8260	1,3,5-Trimethylbenzene	689	ug/L	50.0	01/04/22 19:00	
EPA 8260	m&p-Xylene	6460	ug/L	100	01/04/22 19:00	
EPA 8260	o-Xylene	2070	ug/L	50.0	01/04/22 19:00	
40238996008	MW-10					
EPA 8260	Benzene	332	ug/L	20.0	01/10/22 08:49	
EPA 8260	Ethylbenzene	964	ug/L	20.0	01/10/22 08:49	
EPA 8260	Naphthalene	313	ug/L	100	01/10/22 08:49	
EPA 8260	Toluene	205	ug/L	20.0	01/10/22 08:49	
EPA 8260	1,2,4-Trimethylbenzene	1100	ug/L	20.0	01/10/22 08:49	
EPA 8260	1,3,5-Trimethylbenzene	243	ug/L	20.0	01/10/22 08:49	
EPA 8260	m&p-Xylene	2910	ug/L	40.0	01/10/22 08:49	
EPA 8260	o-Xylene	973	ug/L	20.0	01/10/22 08:49	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

Method: EPA 8260
Description: 8260 MSV UST
Client: Endeavor Environmental Services, Inc.
Date: January 10, 2022

General Information:

9 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.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: P212922.45 DA SWAMP BAR
 Pace Project No.: 40238996

Sample: MW-1 Lab ID: 40238996001 Collected: 12/29/21 13:26 Received: 12/30/21 10:33 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		01/04/22 17:08	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		01/04/22 17:08	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		01/04/22 17:08	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		01/04/22 17:08	91-20-3	
Toluene	<0.29	ug/L	1.0	0.29	1		01/04/22 17:08	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/04/22 17:08	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		01/04/22 17:08	108-67-8	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		01/04/22 17:08	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		01/04/22 17:08	95-47-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		01/04/22 17:08	2037-26-5	
4-Bromofluorobenzene (S)	116	%	70-130		1		01/04/22 17:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	117	%	70-130		1		01/04/22 17:08	2199-69-1	

Sample: MW-3 Lab ID: 40238996002 Collected: 12/29/21 13:51 Received: 12/30/21 10:33 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		01/04/22 17:27	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		01/04/22 17:27	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		01/04/22 17:27	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		01/04/22 17:27	91-20-3	
Toluene	<0.29	ug/L	1.0	0.29	1		01/04/22 17:27	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/04/22 17:27	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		01/04/22 17:27	108-67-8	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		01/04/22 17:27	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		01/04/22 17:27	95-47-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		01/04/22 17:27	2037-26-5	
4-Bromofluorobenzene (S)	118	%	70-130		1		01/04/22 17:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	116	%	70-130		1		01/04/22 17:27	2199-69-1	

Sample: PZ-1 Lab ID: 40238996003 Collected: 12/29/21 14:40 Received: 12/30/21 10:33 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		01/04/22 17:45	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		01/04/22 17:45	100-41-4	

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ANALYTICAL RESULTS

Project: P212922.45 DA SWAMP BAR
 Pace Project No.: 40238996

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: PZ-1 Lab ID: 40238996003 Collected: 12/29/21 14:40 Received: 12/30/21 10:33 Matrix: Water									
8260 MSV UST Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		01/04/22 17:45	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		01/04/22 17:45	91-20-3	
Toluene	<0.29	ug/L	1.0	0.29	1		01/04/22 17:45	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/04/22 17:45	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		01/04/22 17:45	108-67-8	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		01/04/22 17:45	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		01/04/22 17:45	95-47-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		01/04/22 17:45	2037-26-5	
4-Bromofluorobenzene (S)	117	%	70-130		1		01/04/22 17:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	116	%	70-130		1		01/04/22 17:45	2199-69-1	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-21 Lab ID: 40238996004 Collected: 12/29/21 15:00 Received: 12/30/21 10:33 Matrix: Water									
8260 MSV UST Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		01/04/22 18:04	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		01/04/22 18:04	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		01/04/22 18:04	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		01/04/22 18:04	91-20-3	
Toluene	<0.29	ug/L	1.0	0.29	1		01/04/22 18:04	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/04/22 18:04	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		01/04/22 18:04	108-67-8	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		01/04/22 18:04	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		01/04/22 18:04	95-47-6	
Surrogates									
Toluene-d8 (S)	106	%	70-130		1		01/04/22 18:04	2037-26-5	
4-Bromofluorobenzene (S)	116	%	70-130		1		01/04/22 18:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	117	%	70-130		1		01/04/22 18:04	2199-69-1	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-20 Lab ID: 40238996005 Collected: 12/29/21 15:11 Received: 12/30/21 10:33 Matrix: Water									
8260 MSV UST Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		01/04/22 18:23	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		01/04/22 18:23	100-41-4	
Methyl-tert-butyl ether	47.0	ug/L	5.0	1.1	1		01/04/22 18:23	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		01/04/22 18:23	91-20-3	

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ANALYTICAL RESULTS

Project: P212922.45 DA SWAMP BAR
 Pace Project No.: 40238996

Sample: MW-20 Lab ID: 40238996005 Collected: 12/29/21 15:11 Received: 12/30/21 10:33 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Toluene	<0.29	ug/L	1.0	0.29	1		01/04/22 18:23	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/04/22 18:23	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		01/04/22 18:23	108-67-8	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		01/04/22 18:23	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		01/04/22 18:23	95-47-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		01/04/22 18:23	2037-26-5	
4-Bromofluorobenzene (S)	115	%	70-130		1		01/04/22 18:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	115	%	70-130		1		01/04/22 18:23	2199-69-1	

Sample: MW-2 Lab ID: 40238996006 Collected: 12/29/21 15:30 Received: 12/30/21 10:33 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	613	ug/L	2.5	0.74	2.5		01/04/22 18:42	71-43-2	
Ethylbenzene	123	ug/L	2.5	0.81	2.5		01/04/22 18:42	100-41-4	
Methyl-tert-butyl ether	<2.8	ug/L	12.5	2.8	2.5		01/04/22 18:42	1634-04-4	
Naphthalene	18.4	ug/L	12.5	2.8	2.5		01/04/22 18:42	91-20-3	
Toluene	629	ug/L	2.5	0.72	2.5		01/04/22 18:42	108-88-3	
1,2,4-Trimethylbenzene	80.7	ug/L	2.5	1.1	2.5		01/04/22 18:42	95-63-6	
1,3,5-Trimethylbenzene	18.4	ug/L	2.5	0.89	2.5		01/04/22 18:42	108-67-8	
m&p-Xylene	356	ug/L	5.0	1.8	2.5		01/04/22 18:42	179601-23-1	
o-Xylene	140	ug/L	2.5	0.87	2.5		01/04/22 18:42	95-47-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		2.5		01/04/22 18:42	2037-26-5	
4-Bromofluorobenzene (S)	117	%	70-130		2.5		01/04/22 18:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	114	%	70-130		2.5		01/04/22 18:42	2199-69-1	

Sample: MW-5R Lab ID: 40238996007 Collected: 12/29/21 14:10 Received: 12/30/21 10:33 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	297	ug/L	50.0	14.8	50		01/04/22 19:00	71-43-2	
Ethylbenzene	1850	ug/L	50.0	16.3	50		01/04/22 19:00	100-41-4	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		01/04/22 19:00	1634-04-4	
Naphthalene	736	ug/L	250	56.5	50		01/04/22 19:00	91-20-3	
Toluene	1840	ug/L	50.0	14.4	50		01/04/22 19:00	108-88-3	
1,2,4-Trimethylbenzene	3050	ug/L	50.0	22.4	50		01/04/22 19:00	95-63-6	

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ANALYTICAL RESULTS

Project: P212922.45 DA SWAMP BAR
 Pace Project No.: 40238996

Sample: MW-5R Lab ID: 40238996007 Collected: 12/29/21 14:10 Received: 12/30/21 10:33 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3,5-Trimethylbenzene	689	ug/L	50.0	17.9	50		01/04/22 19:00	108-67-8	
m&p-Xylene	6460	ug/L	100	35.0	50		01/04/22 19:00	179601-23-1	
o-Xylene	2070	ug/L	50.0	17.4	50		01/04/22 19:00	95-47-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		50		01/04/22 19:00	2037-26-5	
4-Bromofluorobenzene (S)	116	%	70-130		50		01/04/22 19:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	115	%	70-130		50		01/04/22 19:00	2199-69-1	

Sample: MW-10 Lab ID: 40238996008 Collected: 12/29/21 15:45 Received: 12/30/21 10:33 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	332	ug/L	20.0	5.9	20		01/10/22 08:49	71-43-2	
Ethylbenzene	964	ug/L	20.0	6.5	20		01/10/22 08:49	100-41-4	
Methyl-tert-butyl ether	<22.6	ug/L	100	22.6	20		01/10/22 08:49	1634-04-4	
Naphthalene	313	ug/L	100	22.6	20		01/10/22 08:49	91-20-3	
Toluene	205	ug/L	20.0	5.8	20		01/10/22 08:49	108-88-3	
1,2,4-Trimethylbenzene	1100	ug/L	20.0	9.0	20		01/10/22 08:49	95-63-6	
1,3,5-Trimethylbenzene	243	ug/L	20.0	7.1	20		01/10/22 08:49	108-67-8	
m&p-Xylene	2910	ug/L	40.0	14.0	20		01/10/22 08:49	179601-23-1	
o-Xylene	973	ug/L	20.0	7.0	20		01/10/22 08:49	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		20		01/10/22 08:49	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		20		01/10/22 08:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		20		01/10/22 08:49	2199-69-1	

Sample: TRIP BLANK Lab ID: 40238996009 Collected: 12/29/21 00:00 Received: 12/30/21 10:33 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		01/05/22 12:18	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		01/05/22 12:18	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		01/05/22 12:18	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		01/05/22 12:18	91-20-3	
Toluene	<0.29	ug/L	1.0	0.29	1		01/05/22 12:18	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/05/22 12:18	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		01/05/22 12:18	108-67-8	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		01/05/22 12:18	179601-23-1	

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ANALYTICAL RESULTS

Project: P212922.45 DA SWAMP BAR
 Pace Project No.: 40238996

Sample: TRIP BLANK Lab ID: 40238996009 Collected: 12/29/21 00:00 Received: 12/30/21 10:33 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
<i>o</i> -Xylene Surrogates	<0.35	ug/L	1.0	0.35	1		01/05/22 12:18	95-47-6	
Toluene-d8 (S)	100	%	70-130		1		01/05/22 12:18	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		01/05/22 12:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		01/05/22 12:18	2199-69-1	

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QUALITY CONTROL DATA

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

QC Batch: 405418 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238996001, 40238996002, 40238996003, 40238996004, 40238996005, 40238996006, 40238996007

METHOD BLANK: 2339528 Matrix: Water
Associated Lab Samples: 40238996001, 40238996002, 40238996003, 40238996004, 40238996005, 40238996006, 40238996007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	01/04/22 09:01	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	01/04/22 09:01	
Benzene	ug/L	<0.30	1.0	01/04/22 09:01	
Ethylbenzene	ug/L	<0.33	1.0	01/04/22 09:01	
m&p-Xylene	ug/L	<0.70	2.0	01/04/22 09:01	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	01/04/22 09:01	
Naphthalene	ug/L	<1.1	5.0	01/04/22 09:01	
o-Xylene	ug/L	<0.35	1.0	01/04/22 09:01	
Toluene	ug/L	<0.29	1.0	01/04/22 09:01	
1,2-Dichlorobenzene-d4 (S)	%	114	70-130	01/04/22 09:01	
4-Bromofluorobenzene (S)	%	116	70-130	01/04/22 09:01	
Toluene-d8 (S)	%	104	70-130	01/04/22 09:01	

LABORATORY CONTROL SAMPLE: 2339529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.5	101	70-132	
Ethylbenzene	ug/L	50	52.0	104	80-123	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	43.6	87	66-130	
o-Xylene	ug/L	50	53.9	108	70-130	
Toluene	ug/L	50	49.4	99	80-121	
1,2-Dichlorobenzene-d4 (S)	%			114	70-130	
4-Bromofluorobenzene (S)	%			117	70-130	
Toluene-d8 (S)	%			103	70-130	

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

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QUALITY CONTROL DATA

Project: P212922.45 DA SWAMP BAR
 Pace Project No.: 40238996

QC Batch: 405518 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
 Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238996009

METHOD BLANK: 2339911 Matrix: Water
 Associated Lab Samples: 40238996009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	01/05/22 08:23	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	01/05/22 08:23	
Benzene	ug/L	<0.30	1.0	01/05/22 08:23	
Ethylbenzene	ug/L	<0.33	1.0	01/05/22 08:23	
m&p-Xylene	ug/L	<0.70	2.0	01/05/22 08:23	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	01/05/22 08:23	
Naphthalene	ug/L	<1.1	5.0	01/05/22 08:23	
o-Xylene	ug/L	<0.35	1.0	01/05/22 08:23	
Toluene	ug/L	<0.29	1.0	01/05/22 08:23	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	01/05/22 08:23	
4-Bromofluorobenzene (S)	%	96	70-130	01/05/22 08:23	
Toluene-d8 (S)	%	100	70-130	01/05/22 08:23	

LABORATORY CONTROL SAMPLE: 2339912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.4	103	70-132	
Ethylbenzene	ug/L	50	50.0	100	80-123	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	66-130	
o-Xylene	ug/L	50	49.1	98	70-130	
Toluene	ug/L	50	48.4	97	80-121	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P212922.45 DA SWAMP BAR
 Pace Project No.: 40238996

QC Batch: 405665 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
 Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238996008

METHOD BLANK: 2340672 Matrix: Water
 Associated Lab Samples: 40238996008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	01/07/22 08:41	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	01/07/22 08:41	
Benzene	ug/L	<0.30	1.0	01/07/22 08:41	
Ethylbenzene	ug/L	<0.33	1.0	01/07/22 08:41	
m&p-Xylene	ug/L	<0.70	2.0	01/07/22 08:41	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	01/07/22 08:41	
Naphthalene	ug/L	<1.1	5.0	01/07/22 08:41	
o-Xylene	ug/L	<0.35	1.0	01/07/22 08:41	
Toluene	ug/L	<0.29	1.0	01/07/22 08:41	
1,2-Dichlorobenzene-d4 (S)	%	114	70-130	01/07/22 08:41	
4-Bromofluorobenzene (S)	%	110	70-130	01/07/22 08:41	
Toluene-d8 (S)	%	102	70-130	01/07/22 08:41	

LABORATORY CONTROL SAMPLE: 2340673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	52.0	104	70-132	
Ethylbenzene	ug/L	50	53.2	106	80-123	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	44.6	89	66-130	
o-Xylene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	50.9	102	80-121	
1,2-Dichlorobenzene-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340674 2340675

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40239028008 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<1.0	50	50	51.3	51.5	103	103	70-132	0	20
Ethylbenzene	ug/L	<1.0	50	50	51.7	51.7	103	103	80-123	0	20
m&p-Xylene	ug/L	<2.0	100	100	111	111	111	111	70-130	0	20
Methyl-tert-butyl ether	ug/L	<5.0	50	50	44.3	47.2	87	92	66-130	6	20
o-Xylene	ug/L	<1.0	50	50	53.3	54.3	107	109	70-130	2	20
Toluene	ug/L	<1.0	50	50	49.3	49.0	99	98	80-121	1	20
1,2-Dichlorobenzene-d4 (S)	%						111	112	70-130		

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QUALITY CONTROL DATA

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

Parameter	Units	2340674		2340675		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
4-Bromofluorobenzene (S)	%	40239028008						115	115	70-130		
Toluene-d8 (S)	%							101	100	70-130		

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QUALIFIERS

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

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.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P212922.45 DA SWAMP BAR
Pace Project No.: 40238996

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238996001	MW-1	EPA 8260	405418		
40238996002	MW-3	EPA 8260	405418		
40238996003	PZ-1	EPA 8260	405418		
40238996004	MW-21	EPA 8260	405418		
40238996005	MW-20	EPA 8260	405418		
40238996006	MW-2	EPA 8260	405418		
40238996007	MW-5R	EPA 8260	405418		
40238996008	MW-10	EPA 8260	405665		
40238996009	TRIP BLANK	EPA 8260	405518		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

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

Client Name: Endeavor Env. Serv. Inc

Project # 40238996

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #/ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WG9U	WPFU								SP5T
001																3															2.5/5/10
002																3															2.5/5/10
003																3															2.5/5/10
004																3															2.5/5/10
005																3															2.5/5/10
006																3															2.5/5/10
007																3															2.5/5/10
008																3															2.5/5/10
009																3															2.5/5/10
010																2															2.5/5/10
011																															2.5/5/10
012																															2.5/5/10
013																															2.5/5/10
014																															2.5/5/10
015																															2.5/5/10
016																															2.5/5/10
017																															2.5/5/10
018																															2.5/5/10
019																															2.5/5/10
020																															2.5/5/10

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

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JG9U 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	WG9U 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	BP3S 250 mL plastic H2SO4	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
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			



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)

Project #: _____

Client Name: Endeavor Env. Serv. Inc

WO#: 40238996

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: N/A

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 105 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4

Temp Blank Present: yes no Biological Tissue Is Frozen: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 12/30/21 Initials: NK
 Labeled By Initials: AW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>471</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments.
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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