

From: Joe Ramcheck <jramcheck@endeavorenv.com>
Sent: Tuesday, June 16, 2020 8:08 AM
To: James, Andrew G - DNR
Subject: Da Swamp Bar (03-59-547440)
Attachments: 40208736_frc.pdf; Table A.1..pdf

Good Morning Andy:

Attached is the updated Table A.1. with the additional analytical results for wells MW-10, MW-20 and MW-21. The groundwater sample laboratory analytical report is also attached. The measured groundwater elevations in the three wells has also been updated.

Due to the excessive rain we recently received, the elevations are at the highest recorded levels. As a result, the contaminant levels in the wells you requested spiked.

Please advise as to how the Department would like this addressed in forthcoming closure request.

Thanks,
Joe

Joseph M. Ramcheck, P.H.
President/Senior Hydrologist
Endeavor Environmental Services, Inc.
2280-B Salscheider Court
Green Bay, WI 54313
Office: (920) 437-2997
Fax: (920) 437-3066
Cellular: (920) 737-5313
E-mail: jramcheck@endeavorenv.com

June 05, 2020

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

RE: Project: P101399.45 DA SWAMP BAR
Pace Project No.: 40208736

Dear Joe Ramcheck:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: P101399.45 DA SWAMP BAR

Pace Project No.: 40208736

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

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SAMPLE SUMMARY

Project: P101399.45 DA SWAMP BAR

Pace Project No.: 40208736

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40208736001	MW-20	Water	06/02/20 19:00	06/03/20 09:55
40208736002	MW-21	Water	06/02/20 18:30	06/03/20 09:55
40208736003	MW-10	Water	06/02/20 18:40	06/03/20 09:55
40208736004	TRIP BLANK	Water	06/02/20 00:00	06/03/20 09:55

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SAMPLE ANALYTE COUNT

Project: P101399.45 DA SWAMP BAR

Pace Project No.: 40208736

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40208736001	MW-20	EPA 8260	LAP	12	PASI-G
40208736002	MW-21	EPA 8260	LAP	12	PASI-G
40208736003	MW-10	EPA 8260	LAP	12	PASI-G
40208736004	TRIP BLANK	EPA 8260	LAP	12	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: P101399.45 DA SWAMP BAR
Pace Project No.: 40208736

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40208736001	MW-20					
EPA 8260	Benzene	24.3	ug/L	1.0	06/04/20 14:55	
EPA 8260	Ethylbenzene	2.4	ug/L	1.1	06/04/20 14:55	
EPA 8260	Methyl-tert-butyl ether	2.7J	ug/L	4.2	06/04/20 14:55	
EPA 8260	Toluene	0.32J	ug/L	0.90	06/04/20 14:55	
EPA 8260	1,2,4-Trimethylbenzene	3.7	ug/L	2.8	06/04/20 14:55	
40208736003	MW-10					
EPA 8260	Benzene	1780	ug/L	40.0	06/04/20 09:04	
EPA 8260	Ethylbenzene	1950	ug/L	42.5	06/04/20 09:04	
EPA 8260	Naphthalene	315	ug/L	200	06/04/20 09:04	
EPA 8260	Toluene	1580	ug/L	35.9	06/04/20 09:04	
EPA 8260	1,2,4-Trimethylbenzene	1430	ug/L	112	06/04/20 09:04	
EPA 8260	1,3,5-Trimethylbenzene	315	ug/L	116	06/04/20 09:04	
EPA 8260	m&p-Xylene	5740	ug/L	80.0	06/04/20 09:04	
EPA 8260	o-Xylene	2100	ug/L	40.0	06/04/20 09:04	

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PROJECT NARRATIVE

Project: P101399.45 DA SWAMP BAR

Pace Project No.: 40208736

Method: EPA 8260

Description: 8260 MSV UST

Client: Endeavor Environmental Services, Inc.

Date: June 05, 2020

General Information:

4 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101399.45 DA SWAMP BAR

Pace Project No.: 40208736

Sample: MW-20 **Lab ID: 40208736001** Collected: 06/02/20 19:00 Received: 06/03/20 09:55 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	24.3	ug/L	1.0	0.25	1		06/04/20 14:55	71-43-2	
Ethylbenzene	2.4	ug/L	1.1	0.32	1		06/04/20 14:55	100-41-4	
Methyl-tert-butyl ether	2.7J	ug/L	4.2	1.2	1		06/04/20 14:55	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/04/20 14:55	91-20-3	
Toluene	0.32J	ug/L	0.90	0.27	1		06/04/20 14:55	108-88-3	
1,2,4-Trimethylbenzene	3.7	ug/L	2.8	0.84	1		06/04/20 14:55	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/04/20 14:55	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/04/20 14:55	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/04/20 14:55	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		06/04/20 14:55	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/04/20 14:55	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		06/04/20 14:55	460-00-4	

Sample: MW-21 **Lab ID: 40208736002** Collected: 06/02/20 18:30 Received: 06/03/20 09:55 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	<0.25	ug/L	1.0	0.25	1		06/04/20 15:17	71-43-2	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		06/04/20 15:17	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/04/20 15:17	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/04/20 15:17	91-20-3	
Toluene	<0.27	ug/L	0.90	0.27	1		06/04/20 15:17	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/04/20 15:17	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/04/20 15:17	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/04/20 15:17	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/04/20 15:17	95-47-6	
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		1		06/04/20 15:17	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/04/20 15:17	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		06/04/20 15:17	460-00-4	

Sample: MW-10 **Lab ID: 40208736003** Collected: 06/02/20 18:40 Received: 06/03/20 09:55 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	1780	ug/L	40.0	9.9	40		06/04/20 09:04	71-43-2	
Ethylbenzene	1950	ug/L	42.5	12.7	40		06/04/20 09:04	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101399.45 DA SWAMP BAR
Pace Project No.: 40208736

Sample: MW-10 **Lab ID: 40208736003** Collected: 06/02/20 18:40 Received: 06/03/20 09:55 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									
Methyl-tert-butyl ether	<49.8	ug/L	166	49.8	40		06/04/20 09:04	1634-04-4	
Naphthalene	315	ug/L	200	47.0	40		06/04/20 09:04	91-20-3	
Toluene	1580	ug/L	35.9	10.8	40		06/04/20 09:04	108-88-3	
1,2,4-Trimethylbenzene	1430	ug/L	112	33.6	40		06/04/20 09:04	95-63-6	
1,3,5-Trimethylbenzene	315	ug/L	116	34.9	40		06/04/20 09:04	108-67-8	
m&p-Xylene	5740	ug/L	80.0	18.6	40		06/04/20 09:04	179601-23-1	
o-Xylene	2100	ug/L	40.0	10.5	40		06/04/20 09:04	95-47-6	
Surrogates									
Dibromofluoromethane (S)	93	%	70-130		40		06/04/20 09:04	1868-53-7	
Toluene-d8 (S)	99	%	70-130		40		06/04/20 09:04	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		40		06/04/20 09:04	460-00-4	

Sample: TRIP BLANK **Lab ID: 40208736004** Collected: 06/02/20 00:00 Received: 06/03/20 09:55 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	<0.25	ug/L	1.0	0.25	1		06/04/20 12:00	71-43-2	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		06/04/20 12:00	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/04/20 12:00	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/04/20 12:00	91-20-3	
Toluene	<0.27	ug/L	0.90	0.27	1		06/04/20 12:00	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/04/20 12:00	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/04/20 12:00	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/04/20 12:00	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/04/20 12:00	95-47-6	
Surrogates									
Dibromofluoromethane (S)	95	%	70-130		1		06/04/20 12:00	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/04/20 12:00	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		06/04/20 12:00	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.45 DA SWAMP BAR

Pace Project No.: 40208736

QC Batch: 356614 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40208736001, 40208736002, 40208736003, 40208736004

METHOD BLANK: 2062590 Matrix: Water
Associated Lab Samples: 40208736001, 40208736002, 40208736003, 40208736004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/04/20 08:42	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/04/20 08:42	
Benzene	ug/L	<0.25	1.0	06/04/20 08:42	
Ethylbenzene	ug/L	<0.32	1.1	06/04/20 08:42	
m&p-Xylene	ug/L	<0.47	2.0	06/04/20 08:42	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/04/20 08:42	
Naphthalene	ug/L	<1.2	5.0	06/04/20 08:42	
o-Xylene	ug/L	<0.26	1.0	06/04/20 08:42	
Toluene	ug/L	<0.27	0.90	06/04/20 08:42	
4-Bromofluorobenzene (S)	%	86	70-130	06/04/20 08:42	
Dibromofluoromethane (S)	%	90	70-130	06/04/20 08:42	
Toluene-d8 (S)	%	98	70-130	06/04/20 08:42	

LABORATORY CONTROL SAMPLE: 2062591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	47.8	96	70-130	
Ethylbenzene	ug/L	50	53.3	107	80-120	
m&p-Xylene	ug/L	100	111	111	70-130	
Methyl-tert-butyl ether	ug/L	50	41.8	84	61-129	
o-Xylene	ug/L	50	53.5	107	70-130	
Toluene	ug/L	50	52.4	105	80-120	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			91	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2062613 2062614

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40208698001 Result	Spike Conc.	Spike Conc.	Result							Result
Benzene	ug/L	<0.25	50	50	50.5	47.3	101	95	70-136	6	20	
Ethylbenzene	ug/L	<0.32	50	50	53.6	52.5	107	105	80-120	2	20	
m&p-Xylene	ug/L	<0.47	100	100	111	109	111	109	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	43.9	41.3	88	83	61-136	6	20	
o-Xylene	ug/L	<0.26	50	50	53.7	51.2	107	102	70-130	5	20	
Toluene	ug/L	<0.27	50	50	52.0	50.9	104	102	80-120	2	20	
4-Bromofluorobenzene (S)	%						98	99	70-130			

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

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QUALITY CONTROL DATA

Project: P101399.45 DA SWAMP BAR

Pace Project No.: 40208736

Parameter	Units	2062613		2062614		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40208698001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Dibromofluoromethane (S)	%					96	93	70-130			
Toluene-d8 (S)	%					99	98	70-130			

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

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QUALIFIERS

Project: P101399.45 DA SWAMP BAR

Pace Project No.: 40208736

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: P101399.45 DA SWAMP BAR
Pace Project No.: 40208736

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40208736001	MW-20	EPA 8260	356614		
40208736002	MW-21	EPA 8260	356614		
40208736003	MW-10	EPA 8260	356614		
40208736004	TRIP BLANK	EPA 8260	356614		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40208736



CHAIN OF CUSTODY

Table with Preservation Codes: A=None, B=HCL, C=H2SO4, D=HNO3, E=DI Water, F=Methanol, G=NaOH, H=Sodium Bisulfate Solution, I=Sodium Thiosulfate, J=Other

Company Name: Endeavor Env. Serv. Inc.
Branch/Location: Green Bay
Project Contact: Joseph Ramcheck
Phone: 920-437-2997
Project Number: D101399.45
Project Name: DaS Swamp Bar
Project State: WI
Sampled By (Print): Joseph Ramcheck
Sampled By (Sign): [Signature]

Data Package Options (billable): EPA Level III, EPA Level IV
MS/MSD: On your sample (billable), NOT needed on your sample
Matrix Codes: A=Air, B=Biota, C=Charcoal, O=Oil, S=Soil, SI=Sludge, W=Water, DW=Drinking Water, GW=Ground Water, SW=Surface Water, WW=Waste Water, WP=Wipe

Table with columns: PACE LAB #, CLIENT FIELD ID, COLLECTION DATE, TIME, MATRIX. Rows 001-004.

Main Chain of Custody grid with columns: FILTERED? (YES/NO), PRESERVATION (CODE)*, Y/N, Pick Letter, and a vertical 'Analyses Requested' column with handwritten entries.

Quote #:
Mail To Contact: Joseph Ramcheck
Mail To Company: Endeavor Env. Serv. Inc.
Mail To Address: 2280-B Salscheider Ct Green Bay WI 54313
Invoice To Contact: Same as "Mail To"
Invoice To Company:
Invoice To Address:
Invoice To Phone:

Table with columns: CLIENT COMMENTS, LAB COMMENTS (Lab Use Only), Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
Date Needed:
Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:
Samples on HOLD are subject to special pricing and release of liability

Relinquished By / Received By table with signatures and dates/times for each transfer.

PACE Project No. 40208736
Receipt Temp = ROT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Page 13 of 15

Sample Preservation Receipt Form

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

Page 14 of 15

Client Name: Endeavor Env.

Project # 40208736

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	JGFU	JG9U	WGFU	WPFU								SP5T	ZPLC	GN				
001																3																			2.5 / 5 / 10		
002																3																			2.5 / 5 / 10		
003																3																			2.5 / 5 / 10		
004																1																			2.5 / 5 / 10		
005																																			2.5 / 5 / 10		
006																																			2.5 / 5 / 10		
007																																			2.5 / 5 / 10		
008																																				2.5 / 5 / 10	
009																																				2.5 / 5 / 10	
010																																				2.5 / 5 / 10	
011																																				2.5 / 5 / 10	
012																																				2.5 / 5 / 10	
013																																				2.5 / 5 / 10	
014																																				2.5 / 5 / 10	
015																																				2.5 / 5 / 10	
016																																				2.5 / 5 / 10	
017																																				2.5 / 5 / 10	
018																																				2.5 / 5 / 10	
019																																					2.5 / 5 / 10
020																																					2.5 / 5 / 10

6/3/20
ND

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	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	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			

40208736

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Endeavor Env.

Project #:

WO# : 40208736

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



Tracking #: —

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

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

Cooler Temperature Uncorr: WOL /Corr: _____

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

Person examining contents:

Date: 16/3/20 /Initials: WOL

Temp should be above freezing to 6°C.

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

Labeled By Initials: WOL

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 checked="" type="checkbox"/> Yes <input 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>441</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

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

Sample ID	Sample Date	Benzene	Ethylbenzene	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
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
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
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
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
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
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
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
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
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 preventative 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 preventative 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