



# Wisconsin Department of Natural Resources

Attn: Ms. Gina Keenan 1300 W Clairemont Avenue Eau Claire, WI 54701

#### Subject:

Update Report OW Sports & Liquor 107 Central Avenue Owen, WI BRRTS #03-10-182097 PECFA #54460-0147-07

#### Dear Ms. Keenan:

Enclosed is the Update Report for the above-mentioned site. REI has completed three (3) of the four (4) approved post soil excavation groundwater sample events. Groundwater analytical trends are decreasing following the soil excavation and if additional groundwater sampling remains consistent this investigation should be reviewed for case closure consideration prior to the July 2020 sunsetting of the PECFA program.

Please call me with questions or comments toll free at 877-734-7745 or contact me electronically at <a href="mailto:dlarsen@reiengineering.com">dlarsen@reiengineering.com</a>.

Sincerely,

REI Engineering, Inc.

David N. Larsen, P.G. Senior Hydrogeologist

Enclosure

CC: Jackie Reinke, OW Sport & Liquor, PO Box 147, Owen, WI 54460

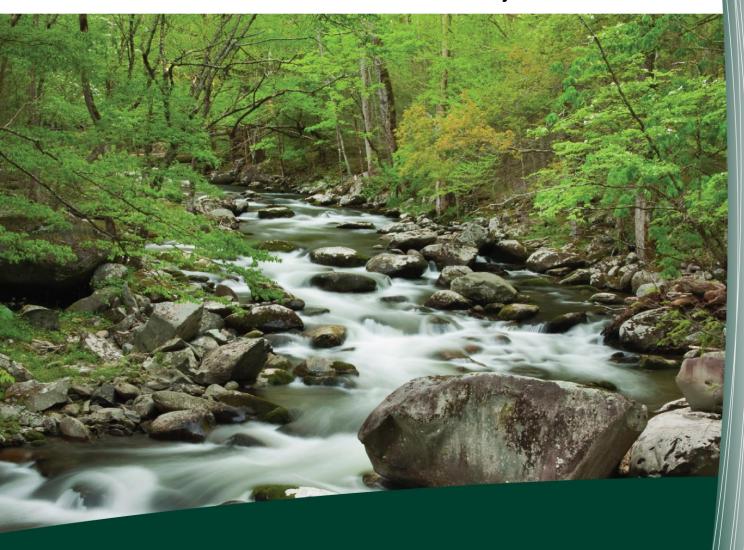




UPDATE REPORT
OW SPORTS & LIQUOR
OWEN, WI 54853

BRRTS #03-10-182097 PECFA #54460-0147-07

REI PROJECT #1687



COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS



# **UPDATE REPORT**

OW SPORTS & LIQUOR 107 CENTRAL AVENUE OWEN, WI 54853

BRRTS #03-10-182097 PECFA #54460-0147-07

**REI #1687** 



# PREPARED FOR:

OW Sports & Liquor Attn: Ms. Jackie Reinke PO Box 147 Owen, WI 54460

JANUARY 2019

# **UPDATE REPORT**

# OW SPORTS & LIQUOR 107 CENTRAL AVENUE OWEN, WI 54853

# BRRTS #03-10-182097 PECFA #54460-0147-07

#### **REI** #1687

The recommendations contained in this report are based on the information obtained from our study of the site and were arrived at in accordance with accepted hydrogeologic and engineering practices at this time and location.

"I, David N. Larsen, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Admn. 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. NR 700 to 726, Wis. Adm. Code."

Hydrogeologist \( \frac{1-29-19}{Date} \)

"I, Brian J. Bailey, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (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. NR 700 to 726, Wis. Adm. Code."

Environmental Scientist

1-29-19

Date

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# **UPDATE REPORT**

OW SPORTS & LIQUOR 107 CENTRAL AVENUE OWEN, WI 54853

BRRTS #03-10-182097 PECFA #54460-0147-07

#### **REI #1687**

#### 1.0 Introduction

#### 1.1 Purpose

This report presents the completion of an excavation to remove petroleum impacted soil from the OW Sports & Liquor site located at 107 Central Avenue, Owen, Wisconsin. The site location is shown on Figure 1.

#### 2.0 SITE BACKGROUND AND HISTORY

The OW Sports & Liquor site is located in the NW ¼ of the SE ¼ of Section 36, Township 29 North, Range 02 West, in the City of Owen, Clark County, Wisconsin (Figure 1). The site address is 107 Central Avenue, Owen, Wisconsin 54460. Wisconsin Transverse Mercator (WTM) coordinates are 475504, 497314. Previous site work included the installation of six (6) monitoring wells and numerous soil borings. A site map documenting previous site work is included in Figure 2.

#### 3.0 SUMMARY OF WORK

#### 3.1 Monitoring Well Installation

On April 30, 2018, REI was on site to oversee the installation of monitoring wells MW3R, MW4R, MW7 and MW8. Gestra Engineering, Inc. of Milwaukee, WI was subcontracted to complete the well installation. Monitoring wells MW3 and MW4 were abandoned prior to the November 2017 soil excavation. Abandonment forms are included in Appendix A. Replacement monitoring wells MW3R and MW4R were blind drilled to a depth of fifteen (15) feet below land surface (bls) and completed



with a ten (10) foot screen length. Monitoring wells MW7 and MW8 were also drilled to fifteen (15) feet bls and completed with a ten (10) foot screen, but the soil profiles were logged. All wells were completed as flushmount construction wells.

The completed Soil Boring Log (WDNR Form 4400-122), Monitoring Well Construction Form (WDNR Form 4400-133A) and Monitoring Well Development Form (WDNR Form 4400-133B) are included in Appendix A. Investigative waste disposal, specific to proper disposal of soil cuttings, is included in Appendix B.

# 3.2 Groundwater Monitoring and Analytical Results

REI personnel collected groundwater samples from the existing well network on April 30, May 9, July 17 and November 19, 2018. Water elevation measurements were collected at each well during the sampling event and the recorded depth to groundwater data is presented in Table 1.

Free floating product was historically observed at MW4 prior to the November 2017 soil excavation. Free product has not been observed in any of the monitoring wells following the completion of the soil excavation.

Groundwater samples were submitted to Pace Analytical, Green Bay, Wisconsin for analysis of PVOC and naphthalene compounds. The complete laboratory analytical reports are included as Appendix C. Groundwater analytical results are summarized in Tables 2a-k. A groundwater contour map from November 19, 2018 is included in Figure 3. Groundwater is depicted flowing from the northeast to the southwest and is consistent with the historical groundwater flow directions.

Analysis of the groundwater samples for these events indicated the presence of petroleum compounds above NR 140.10 Groundwater Quality Enforcement Standards (ES) and/or Preventive Action Limits (PAL). Laboratory analytical results for monitoring wells MW3R had detectable concentrations greater than the NR 140.10 ES limits for benzene and MW7 had detectable concentrations greater than the NR 140.10 PAL limits for naphthalene on the November 19, 2018 sampling event.



All purge water generated during this scope of services was temporarily stored in 55-gallon WDOT approved drums until final disposal arrangements were completed with the City of Wausau Waste Water Treatment Facility.

# 4.0 CONCLUSION AND RECOMMENDATIONS

The groundwater contaminant plume has been adequately defined following the installation of monitoring wells MW7 and MW8. The soil excavation completed in 2017 appears to have adequately addressed the residual petroleum contamination beneath the O&W Sports & Liquor site. Free product is no longer reported in the groundwater monitoring well network and groundwater contaminant concentrations have been decreasing following the soil excavation.

REI is recommending the completion of the approved quarterly groundwater sampling for PVOC and naphthalene compounds. If contaminant concentrations remain consistent, REI should be able to recommend this investigation be reviewed and closed prior to the sunsetting of the PECFA program in June 2020.

LNAPL in the well

Table 1
Depth to Water and Water Table Elevations
O-W Sports and Liquor
Owen, WI

Depth to Water (feet) below Reference Elevation

MW8	6.04 7.04 6.40	1240.42	1240.89		MW8	1234.38 1233.38 1234.02
MW7	5.80 6.94 6.12	1240.60	1241.07		MW7	1234.80 1233.66 1234.48
MW6 6.59 4.35 5.91 7.23 7.23 7.23 7.23 8.28 8.28 8.23 8.23 8.23 8.24 8.24 8.24 8.24 8.24 8.24 8.24 8.24	5.31	99.02 99.13 1240.75 1240.60	99.52 1241.11 1241.12	5.80 7.73 4.60 3.13	MW6 92.43 94.67 93.11 93.79 94.13 93.79 93.89 93.89 94.33 93.89 93.89 93.89 93.89 93.89 93.89 94.33 1236.65	1235.29
MW5 7.21 5.72 7.10 6.88 6.06 6.06 6.14 5.24 4.02	5.02	98.64 1240.66 1240.55	99.03 1240.83 1240.83	6.42 7.75 4.41 3.34	MW5 91.43 92.92 91.54 91.78 92.58 91.78 92.50 92.50 93.50	
MW4R	4.81 6.36 4.83	1240.63	1241.04		MW4R	1235.82 1234.27 1235.80
MW4 7.43 6.90 5.22	Well Abandoned	98.99 98.98 1240.70 N/A	99.42	6.61 7.86 5.65 2.21	MW4 91.56 93.08 1235.48	
MW3R	5.30 6.46 5.68	1240.76	1241.14		MW3R	1235.46 1234.30 1235.08
MW3 7.04 5.68 6.94 6.76 7.22 5.98 6.71 6.71 6.73 5.30	Well Abandoned	99.14 99.08 1241.02 N/A	99.55 1241.37	6.72 7.63 5.61 2.02	MW3 92.10 93.46 92.20 92.38 91.92 93.16 92.43 92.43 92.43	
MW2 7.10 5.62 6.84 6.71 7.17 7.17 6.66 6.66 6.22 6.55 4.81	6.8 8.8 8.8	99.32 1241.16 1241.40	99.80 1241.56 1241.57 <b>Fround Sun</b>	6.65 7.65 5.29 2.36	MW2 92.22 93.70 92.48 92.61 92.15 93.40 92.66 93.10 93.10	1235.51
MW1 9.57 6.32 8.54 8.03 9.59 6.82 7.98 6.45 6.09	6.52 6.80	102.67 1244.59 1244.61	levation 100.72 1242.10 1242.12 et) below (	5.46 7.64 4.14 3.50	MW1 93.10 96.35 94.13 94.64 93.08 95.85 94.69 96.22 96.22 96.22	1237.81
Date 12/7/2000 4/17/2001 7/17/2001 10/17/2001 2/15/2002 5/21/2002 10/2/2002 4/5/2004 4/9/2008	4/30/2018 6.52 5/9/2018 7/17/2018 11/19/2018 Measuring Point Elevations	Elevations referenced to an onsite benchmark Initial Survey (4-9-08) Resurvey (4-26-17) 1244.5 Resurvey (5-9-18) 1244.6	Cround Surface Elevation   Dinitial Survey   100.72   99.80   99.80   Resurvey (4-25-17)   1242.10   1241.56   124   1242.12   Depth to Water (feet) below Ground Surface	Average 5.46 6.  Maximum 7.64 7.  Minimum 4.14 5.  Range 3.50 2.	Date 12/7/2000 4/17/2001 7/17/2001 10/17/2001 2/15/2002 5/21/2002 10/2/2002 4/5/2004 4/9/2008 4/25/2017	5/9/2018 7/17/2018 11/19/2018

# Table 2a Summary of Groundwater Analytical Results Geoprobes O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	GP1	GP2	GP5	GP8	GP9	GP10
			Date	10/25/2000	10/25/2000	10/25/2000	10/25/2000	10/25/2000	10/25/2000
GRO				< 50	< 50	71,300	3,190	54,600	9,710
VOC Parameters									
Benzene	5	0.5	μg/l	< 0.15	< 0.15	18,600	155	5,360	63.5
Toluene	800	160	μg/l	< 0.4	< 0.4	13,300	183	19,500	1,290
Ethylbenzene	700	140	μg/l	0.562 *	< 0.5	3,080	111	4,620	553
Xylenes (mixed isomers)	2,000	400	μg/l	0.750 *	< 0.55	11,410	450	24,640	3,330
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 0.3	< 0.3	< 600	< 6	< 300	< 30
Trimethylbenzenes (mixed isomers)	480	96	μg/l	2.37	< 0.55	3,259	242.1	9,960	1,371
Naphthalene	100	10	μg/l	1.80 *	< 0.8	< 1,600	29.5	2,750	415
n-Butylbenzene			μg/l	2.69	< 0.15	< 300	< 3	< 150	< 15
sec-Butlybenzene			μg/l	0.578	< 0.15	< 300	17.1	419	56.5
tert-Butylbenzene			μg/l	0.203 *	< 0.15	< 300	< 3	< 150	< 15
Isopropylbenzene			μg/l	< 0.15	< 0.15	< 300	23.2	401	60.7
n-Propylbenzene			μg/l	< 0.15	< 0.15	< 300	41	1,330	151
1,2-Dichloroethane	5	0.5	μg/l	< 0.15	< 0.15	< 300	5.66	< 150	< 15

Parameter	ES	PAL	Unit	GP11	GP12	GP13	GP14	GP15	GP16
			Date	11/27/2000	11/27/2000	11/27/2000	11/27/2000	11/27/2000	11/27/2000
VOC Parameters									
Benzene	5	0.5	μg/l	< 0.15	< 0.15	< 0.15	420	108	0.175 *
Toluene	800	160	μg/l	< 0.4	0.481*	< 0.4	94.8	152	0.527 *
Ethylbenzene	700	140	μg/l	< 0.5	< 0.5	< 0.5	1,390	407	< 0.5
Xylenes (mixed isomers)	2,000	400	μg/l	< 0.55	< 0.55	< 0.55	3,758.8	1,380	0.984 *
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 0.3	< 0.3	< 0.3	< 6	< 30	< 0.3
Trimethylbenzenes (mixed isomers)	480	96	μg/l	< 0.55	< 0.55	< 0.55	3,918	781	1.748 *

#### Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded Preventive Action Limit exceeded

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

# Table 2b Summary of Groundwater Analytical Results MW1 O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	12/7/2000	4/17/2001	7/17/2001	10/17/2001	2/5/2002	5/21/2002	10/2/2002	4/5/2004	4/9/2008
GRO			μg/l	< 50	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters												
Benzene	5	0.5	μg/l	< 0.15	< 0.15	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.14	< 0.31
Toluene	800	160	μg/l	< 0.4	< 0.4	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.36	< 0.30
Ethylbenzene	700	140	μg/l	0.575 *	< 0.5	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.40	< 0.50
Xylenes (mixed isomers)	2,000	400	μg/l	0.948 *	< 0.55	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 0.74	< 0.62
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 0.3	< 0.3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.36	< 0.30
Trimethylbenzenes (mixed isomers)	480	96	μg/l	1.33 *	< 0.55	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.40	< 0.40
Naphthalene	100	10	μg/l	< 0.8	NA	NA	NA	NA	NA	NA	< 0.47	< 0.80
Methylene Chloride	5	0.5	μg/l	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			μg/l	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			μg/l	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether			μg/l	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyl toluene			μg/l	0.212 *	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics												
Lead	15	1.5	μg/l	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate+Nitrite (as N)	10	2	mg/l	1.21	1.17	0.97	NA	0.99	1.1	NA	NA	NA
Sulfate	250	125	mg/l	20.1	47.6	24	NA	26	56	NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l	0.759	0.05	NA	NA	0.049	NA	NA	NA	NA
Field Measurements												
Temperature			°F	NA	40.26	57.86	NA	47.51	NA	NA	NA	NA
Conductivity			µS/cm	NA	253	375	NA	165	NA	NA	NA	NA
Dissolved Oxygen			mg/l	NA	9.39	9.16	NA	6.38	NA	NA	NA	NA
pН				NA	6.47	7.74	NA	8.29	NA	NA	NA	NA
Redox Potential			mV	NA	244.6	1.2	NA	44.7	NA	NA	NA	NA

Parameter	ES	PAL	Units		4/25/2017	11/2017	4/30/2018	5/9/2018	7/17/2018	11/19/2018
GRO			μg/l		NA		NA			NA
VOC Parameters										
Benzene	5	0.5	μg/l		< 0.40		< 0.31			< 0.31
Toluene	800	160	μg/l		< 0.39		< 0.49			< 0.49
Ethylbenzene	700	140	μg/l		< 0.39		< 0.33			< 0.33
Xylenes (mixed isomers)	2,000	400	μg/l		< 0.80		< 0.66			< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l		< 0.48		< 0.32			< 0.32
Trimethylbenzenes (mixed isomers)	480	96	μg/l		< 0.42		< 0.34			< 0.34
Naphthalene	100	10	μg/l		< 0.42		< 0.51			< 0.51
Methylene Chloride	5	0.5	μg/l		NA		NA			NA
sec-Butylbenzene			μg/l		NA		NA			NA
n-Propylbenzene			μg/l	Project	NA	Soil	NA	Well Not	Well Not	NA
Isopropyl Ether			μg/l	Stalled	NA	Excavation	NA	Sampled	Sampled	NA
p-Isopropyl toluene			μg/l		NA	Completed	NA	Dampioa	Dampiou	NA
Inorganics										
Lead	15	1.5	μg/l		NA		NA			NA
Nitrate+Nitrite (as N)	10	2	mg/l		NA		NA			NA
Sulfate	250	125	mg/l		NA		NA			NA
Iron (filtered)	0.3	0.15	mg/l		NA		NA			NA
Field Measurements										
Temperature			°F		45.97		NA			51.6
Conductivity			µS/cm		165		NA			55.9
Dissolved Oxygen			mg/l		10.33		NA			6.69
pН					6.76		NA			6.38
Redox Potential			mV		248.4		NA			194.9

#### Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded
Preventive Action Limit exceeded

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

#### Table 2c Summary of Groundwater Analytical Results MW2 O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	12/7/2000	4/17/2001	7/17/2001	10/17/2001	2/5/2002	5/21/2002	10/2/2002	4/5/2004	4/9/2008
GRO			μg/l	< 50	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters												
Benzene	5	0.5	μg/l	< 0.15	< 0.15	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.14	< 0.31
Toluene	800	160	μg/l	< 0.4	< 0.4	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.36	< 0.30
Ethylbenzene	700	140	μg/l	< 0.5	< 0.5	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.40	< 0.50
Xylenes (mixed isomers)	2,000	400	μg/l	0.579 *	< 0.55	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 0.74	< 0.62
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 0.3	< 0.3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.36	< 0.30
Trimethylbenzenes (mixed isomers)	480	96	μg/l	< 0.820 *	< 0.55	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.40	< 0.40
Naphthalene	100	10	μg/l	< 0.8	NA	NA	NA	NA	NA	NA	< 0.47	< 0.80
Methylene Chloride	5	0.5	μg/l	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			μg/l	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			μg/l	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether			μg/l	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics												
Lead	15	1.5	μg/l	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate+Nitrite (as N)	10	2	mg/l	0.526	3.63	NA	NA	3.1	6.3	NA	NA	NA
Sulfate	250	125	mg/l	41.2	43.7	NA	NA	35	54	NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l	0.759	0.035	NA	NA	0.099	NA	NA	NA	NA
Field Measurements												
Temperature			°F	NA	44.46	55.22	NA	49.13	NA	NA	NA	NA
Conductivity			µS/cm	NA	717	484	NA	488	NA	NA	NA	NA
Dissolved Oxygen			mg/l	NA	5.6	5.36	NA	6.1	NA	NA	NA	NA
pН				NA	6.13	8.49	NA	8.12	NA	NA	NA	NA
Redox Potential			mV	NA	254.3	60.5	NA	35.7	NA	NA	NA	NA

Parameter	ES	PAL	Units		4/25/2017	11/2017	4/30/2018	5/9/2018	7/17/2018	11/19/2018
GRO			μg/l	Ĭ	NA		NA			NA
VOC Parameters										
Benzene	5	0.5	μg/l		< 0.40		< 0.31			< 0.31
Toluene	800	160	μg/l		< 0.39		< 0.49			< 0.49
Ethylbenzene	700	140	μg/l		< 0.39		< 0.33			< 0.33
Xylenes (mixed isomers)	2,000	400	μg/l		< 0.80		< 0.66			< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l		< 0.48		< 0.32			< 0.32
Trimethylbenzenes (mixed isomers)	480	96	μg/l		< 0.42		< 0.34			< 0.34
Naphthalene	100	10	μg/l		< 0.42		< 0.51			< 0.51
Methylene Chloride	5	0.5	μg/l		NA		NA			NA
sec-Butylbenzene			μg/l	Project	NA	Soil	NA			NA
n-Propylbenzene			μg/l	Stalled	NA	Excavation	NA	Well Not	Well Not	NA
Isopropyl Ether			μg/l	Dianea	NA	Completed	NA	Sampled	Sampled	NA
Inorganics						Completed				
Lead	15	1.5	μg/l		NA		NA			NA
Nitrate+Nitrite (as N)	10	2	mg/l		NA		NA			NA
Sulfate	250	125	mg/l		NA		NA			NA
Iron (filtered)	0.3	0.15	mg/l		NA		NA			NA
Field Measurements										
Temperature			°F		49.4		NA			53.9
Conductivity			µS/cm		753		NA			915
Dissolved Oxygen			mg/l		10.61		NA			5.12
рН					7.12		NA			6.92
Redox Potential			mV		222.2		NA			202

#### Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded BOLD
Preventive Action Limit exceeded Italics

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

#### Table 2d Summary of Groundwater Analytical Results MW3

#### O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	12/7/2000	4/17/2001	7/17/2001	10/17/2001	2/5/2002	5/21/2002	10/2/2002	4/5/2004	4/9/2008		4/25/2017	11/2017
GRO			µg/l	2,370				NA	NA	NA				NA	
VOC Parameters															
Benzene	5	0.5	μg/l	1,190	6,530	11,000	9,600	9,800	11,000	10,000	9,500	3,070		3,240	
Toluene	800	160	μg/l	< 80	561	420	170	230	190	290	330	46.8		111	
Ethylbenzene	700	140	μg/l	140	424	710	660	610	920	750	710	254		354	
Xylenes (mixed isomers)	2,000	400	μg/l	89.3	1,315	1,290	761	1,028	1,980	1,110	1,120	257.3		565	
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 60	< 30	61	72	< 22	88*	< 43	36*	< 3.0		< 19.4	
Trimethylbenzenes (mixed isomers)	480	96	μg/l	< 110	416	430	320	440	910	490	440	153.5		279.8	
Naphthalene	100	10	μg/l	< 160	NA	NA	NA	NA	NA	NA	180	NA		64.5	
Methylene Chloride	5	0.5	μg/l	< 78	NA	NA	NA	NA	NA	NA	NA	NA		NA	
sec-Butylbenzene			μg/l	< 30	NA	NA	NA	NA	NA	NA	NA	NA		NA	Well
n-Propylbenzene			μg/l	< 30	NA	NA	NA	NA	NA	NA	NA	NA	Project	NA	Abandoned
Isopropyl Ether			μg/l	< 50	NA	NA	NA	NA	NA	NA	NA	NA	Stalled	NA	and Soil
1,2-Dichloroethane	5	0.5	μg/l	47.8	NA	NA	NA	NA	NA	NA	NA	NA		NA	Excavation
Inorganics															Completed
Lead	15	1.5	μg/l	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Nitrate+Nitrite (as N)	10	2	mg/l	< 0.3	< 0.3	NA	NA	NA	1.1	NA	NA	NA		NA	
Sulfate	250	125	mg/l	33.2	27.2	NA	NA	NA	56	NA	NA	NA		NA	
Iron (filtered)	0.3	0.15	mg/l	4.23	0.409	NA	NA	5.7	NA	NA	NA	NA		NA	
Field Measurements															
Temperature			°F	NA	43.66	57.59	NA	NA	NA	NA	NA	NA		48.35	
Conductivity			µS/cm	NA	198	1026	NA	NA	NA	NA	NA	NA		388	
Dissolved Oxygen			mg/l	NA	7.62	3.34	NA	NA	NA	NA	NA	NA		0.82	
pН	·	,		NA	7.09	7.23	NA	NA	NA	NA	NA	NA		6.18	
Redox Potential			mV	NA	236.3	98.3	NA	NA	NA	NA	NA	NA		80.6	

#### Notes:

ES = NR140.10 Enforcement Standards PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded BOLD
Preventive Action Limit exceeded Italics

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

# Table 2e Summary of Groundwater Analytical Results MW3R

# O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	4/30/2018	5/9/2018	7/17/2018	11/19/2018
VOC Parameters							
Benzene	5	0.5	μg/l		1,130	645	16.3
Toluene	800	160	μg/l		11.8*	4.7*	< 0.49
Ethylbenzene	700	140	μg/l		151	10.2	3.5
Xylenes (mixed isomers)	2,000	400	μg/l		216.9	12.7*	1.4*
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l		5.3*	3.3*	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	μg/l		136.4	5.7	1.3
Naphthalene	100	10	μg/l		34.1	21.2	1.3*
Inorganics				Well Not			
Lead	15	1.5	μg/l	Sampled	NA	NA	NA
Nitrate+Nitrite (as N)	10	2	mg/l	Sampled	NA	NA	NA
Sulfate	250	125	mg/l		NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l		NA	NA	NA
Field Measurements							
Temperature			°F		47.95	57.52	51.4
Conductivity			μS/cm		379	489	429
Dissolved Oxygen			mg/l		3.37	Bad Sensor	3.39
рН					6.82	Bad Sensor	6.27
Redox Potential			mV		142.7	Bad Sensor	173.2

#### Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded Preventive Action Limit exceeded

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

# Table 2f Summary of Groundwater Analytical Results MW4 O-W Sports and Liquor 107 Central Avenue Owen, WI

				1			1				1	1	1	1	
Parameter	ES	PAL	Units	12/7/2000	4/17/2001	7/17/2001	10/17/2001	2/5/2002	05/21/02	10/02/02	4/5/2004	4/9/2008		4/25/2017	11/2017
GRO			μg/l	27,900					NA			NA		NA	
VOC Parameters															
Benzene	5	0.5	μg/l	1,450	Not	Not	Not	Not	1,200	Not	Not	592		71.5	
Toluene	800	160	μg/l	3,150	Sampled	Sampled	Sampled	Sampled	1,100	Sampled	Sampled	784		85.3	
Ethylbenzene	700	140	μg/l	1,370					1,300			1,090		631	
Xylenes (mixed isomers)	2,000	400	μg/l	6,910	Free	Free	Free	Free	5,700	Free	Free	6,710		2,826	
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 150	Product	Product	Product	Product	43	Product	Product	< 30		< 9.7	
Trimethylbenzenes (mixed isomers)	480	96	μg/l	1,553					2,050			3,950		2,333	
Naphthalene	100	10	μg/l	< 400					NA			524		460	
Methylene Chloride	5	0.5	μg/l	< 195					NA			NA		NA	
sec-Butylbenzene			μg/l	< 75					NA			NA	Project	NA	Well
n-Propylbenzene			μg/l	282					NA			NA	Stalled	NA	Abandoned
Isopropylbenzene			μg/l	75.6					NA			NA	Dianoa	NA	and Soil
n-Butylbenzene			μg/l	196					NA			NA		NA	Excavation
Inorganics															Completed
Lead	15	1.5	μg/l	22.2					NA			NA		NA	
Nitrate+Nitrite (as N)	10	2	mg/l	< 0.3					NA			NA		NA	
Sulfate	250	125	mg/l	7.94					NA			NA		NA	
Iron (filtered)	0.3	0.15	mg/l	3.73					NA			NA		NA	
Field Measurements															
Temperature			°F	NA					NA			NA		Not	
Conductivity			µS/cm	NA					NA			NA		Sampled	
Dissolved Oxygen			mg/l	NA					NA			NA			
pН				NA					NA			NA		Free	
Redox Potential			mV	NA					NA			NA		Product	

#### Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded BOLD
Preventive Action Limit exceeded Italics

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

#### Table 2g Summary of Groundwater Analytical Results MW4R

# O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	4/30/2018	5/9/2018	7/17/2018	11/19/2018
VOC Parameters							
Benzene	5	0.5	μg/l		14.1	26.3	0.80*
Toluene	800	160	μg/l		36.7	109	0.91*
Ethylbenzene	700	140	μg/l		<i>54.2</i>	229	9.4
Xylenes (mixed isomers)	2,000	400	μg/l		339.6	1,137	19.8
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l		< 1.3	1.7*	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	μg/l		419	392.4	23.3
Naphthalene	100	10	μg/l		26.8	86	4.0
Inorganics				Well Not			
Lead	15	1.5	μg/l	Sampled	NA	NA	NA
Nitrate+Nitrite (as N)	10	2	mg/l	Sampled	NA	NA	NA
Sulfate	250	125	mg/l		NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l		NA	NA	NA
Field Measurements							
Temperature			°F		45.42	57.50	49.6
Conductivity			µS/cm		528	383	303.4
Dissolved Oxygen			mg/l		1.55	Bad Sensor	2.55
рН					6.61	Bad Sensor	6.90
Redox Potential			mV		159.1	Bad Sensor	56.4

#### Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded Preventive Action Limit exceeded

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

# Table 2h **Summary of Groundwater Analytical Results** MW5 O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	12/7/2000	4/17/2001	7/17/2001	10/17/2001	2/5/2002	5/21/2002	10/2/2002	4/5/2004	4/9/2008	
GRO			μg/l	< 50	NA	NA	NA	NA	NA	NA	NA	NA	
VOC Parameters													
Benzene	5	0.5	μg/l	< 0.412 *	< 0.15	< 0.45	< 0.45	0.62 *	< 0.45	0.82 *	< 0.14	< 0.31	
Toluene	800	160	μg/l	< 0.4	< 0.4	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.36	< 0.30	
Ethylbenzene	700	140	μg/l	< 0.5	< 0.5	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.40	< 0.50	
Xylenes (mixed isomers)	2,000	400	μg/l	< 0.55	< 0.55	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 0.74	< 0.62	
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 0.3	< 0.3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.36	< 0.30	
Trimethylbenzenes (mixed isomers)	480	96	μg/l	< 0.55	< 0.55	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.40	< 0.40	
Naphthalene	100	10	μg/l	< 0.8	NA	NA	NA	NA	NA	NA	< 0.47	< 0.80	
Methylene Chloride	5	0.5	μg/l	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	
sec-Butylbenzene			μg/l	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	Project
n-Propylbenzene			μg/l	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	Stalled
Isopropylbenzene			μg/l	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	Dianea
Inorganics													
Lead	15	1.5	μg/l	< 1.00	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrate+Nitrite (as N)	10	2	mg/l	< 0.3	1.19	0.48	NA	0.23	NA	NA	NA	NA	
Sulfate	250	125	mg/l	30.2	18.8	68	NA	22	NA	NA	NA	NA	
Iron (filtered)	0.3	0.15	mg/l	3.5	0.053	NA	NA	0.061	NA	NA	NA	NA	
Field Measurements													
Temperature			°F	NA	43.26	56.94	NA	47.6	NA	NA	NA	NA	
Conductivity			µS/cm	NA	198	177	NA	151	NA	NA	NA	NA	
Dissolved Oxygen			mg/l	NA	7.62	4.19	NA	5.17	NA	NA	NA	NA	
рН				NA	7.09	8.39	NA	7.25	NA	NA	NA	NA	
Redox Potential			mV	NA	236.3	69.3	NA	-5.1	NA	NA	NA	NA	

Parameter	ES	PAL	Units	4/25/2017	11/2017	4/30/2018	5/9/2018	7/17/2018	11/19/2018
GRO			μg/l	NA		NA			NA
VOC Parameters									
Benzene	5	0.5	μg/l	< 0.40		< 0.31			< 0.31
Toluene	800	160	μg/l	< 0.39		< 0.49			< 0.49
Ethylbenzene	700	140	μg/l	< 0.39		< 0.33			< 0.33
Xylenes (mixed isomers)	2,000	400	μg/l	< 0.80		< 0.66			< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 0.48		< 0.32			< 0.32
Trimethylbenzenes (mixed isomers)	480	96	μg/l	< 0.42		< 0.34			< 0.34
Naphthalene	100	10	μg/l	< 0.42		< 0.51			< 0.51
Methylene Chloride	5	0.5	μg/l	NA		NA			NA
sec-Butylbenzene			μg/l	NA	Soil	NA			NA
n-Propylbenzene			μg/l	NA	Excavation	NA	Well Not	Well Not	NA
Isopropylbenzene			μg/l	NA	Completed	NA	Sampled	Sampled	NA
Inorganics					Completed				
Lead	15	1.5	μg/l	NA		NA			NA
Nitrate+Nitrite (as N)	10	2	mg/l	NA		NA			NA
Sulfate	250	125	mg/l	NA		NA			NA
Iron (filtered)	0.3	0.15	mg/l	NA		NA			NA
Field Measurements									
Temperature			°F	48.93		NA			52.1
Conductivity			µS/cm	257		NA			289.6
Dissolved Oxygen			mg/l	1.77		NA			4.9
pН				6.48		NA			6.25
Redox Potential			mV	92.0		NA			180.4

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed

Enforcement Standard exceeded Preventive Action Limit exceeded

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

# Table 2i Summary of Groundwater Analytical Results MW6

# O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	4/30/2018	5/9/2018	7/17/2018	11/19/2018
VOC Parameters							
Benzene	5	0.5	μg/l	< 0.31			< 0.31
Toluene	800	160	μg/l	< 0.49			< 0.49
Ethylbenzene	700	140	μg/l	< 0.33			< 0.33
Xylenes (mixed isomers)	2,000	400	μg/l	< 0.66			< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l	< 0.32			< 0.32
Trimethylbenzenes (mixed isomers)	480	96	μg/l	< 0.34			< 0.34
Naphthalene	100	10	μg/l	< 0.51			< 0.51
Inorganics					Well Not	Well Not	
Lead	15	1.5	μg/l	NA	Sampled	Sampled	NA
Nitrate+Nitrite (as N)	10	2	mg/l	NA	banipieu	bampieu	NA
Sulfate	250	125	mg/l	NA			NA
Iron (filtered)	0.3	0.15	mg/l	NA			NA
Field Measurements							
Temperature			°F	NA			52.7
Conductivity			μS/cm	NA			546
Dissolved Oxygen			mg/l	NA			4.43
рН				NA			6.15
Redox Potential			mV	NA			236.7

#### Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded Preventive Action Limit exceeded

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

# Table 2j Summary of Groundwater Analytical Results MW7

# O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	4/30/2018	5/9/2018	7/17/2018	11/19/2018
VOC Parameters							
Benzene	5	0.5	μg/l		< 0.31	< 0.31	< 0.31
Toluene	800	160	μg/l		< 0.49	< 0.49	< 0.49
Ethylbenzene	700	140	μg/l		4.6	8.6	7.3
Xylenes (mixed isomers)	2,000	400	μg/l		16	21.1	18.8
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l		< 0.32	< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	μg/l		55.4	44.3	56.5
Naphthalene	100	10	μg/l		10.8	14.6	14.4
Inorganics				Well Not			
Lead	15	1.5	μg/l	Sampled	NA	NA	NA
Nitrate+Nitrite (as N)	10	2	mg/l	Sampled	NA	NA	NA
Sulfate	250	125	mg/l		NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l		NA	NA	NA
Field Measurements							
Temperature			°F		50.82	62.36	54.7
Conductivity			µS/cm		1,133	787	570.1
Dissolved Oxygen			mg/l		2.44	Bad Sensor	3.5
pН					7.19	Bad Sensor	6.73
Redox Potential			mV		161.9	Bad Sensor	144.9

#### Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

Enforcement Standard exceeded Preventive Action Limit exceeded

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)

# Table 2k Summary of Groundwater Analytical Results MW8

# O-W Sports and Liquor 107 Central Avenue Owen, WI

Parameter	ES	PAL	Units	4/30/2018	5/9/2018	7/17/2018	11/19/2018
VOC Parameters							
Benzene	5	0.5	μg/l		2.5	< 0.31	< 0.31
Toluene	800	160	μg/l		0.73*	< 0.49	< 0.49
Ethylbenzene	700	140	μg/l		0.38*	< 0.33	< 0.33
Xylenes (mixed isomers)	2,000	400	μg/l		1.5*	< 0.66	< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	μg/l		0.35*	< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	μg/l		1.5	< 0.34	< 0.34
Naphthalene	100	10	μg/l		< 0.51	< 0.51	< 0.51
Inorganics				Well Not			
Lead	15	1.5	μg/l	Sampled	NA	NA	NA
Nitrate+Nitrite (as N)	10	2	mg/l	Sampled	NA	NA	NA
Sulfate	250	125	mg/l		NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l		NA	NA	NA
Field Measurements							
Temperature			°F		49.14	54.08	51.9
Conductivity			µS/cm		125	84	152.8
Dissolved Oxygen			mg/l		2.64	Bad Sensor	2.61
рН					6.22	Bad Sensor	6.18
Redox Potential			mV		338.3	Bad Sensor	193.6

#### Notes:

ES = NR140.10 Enforcement Standards

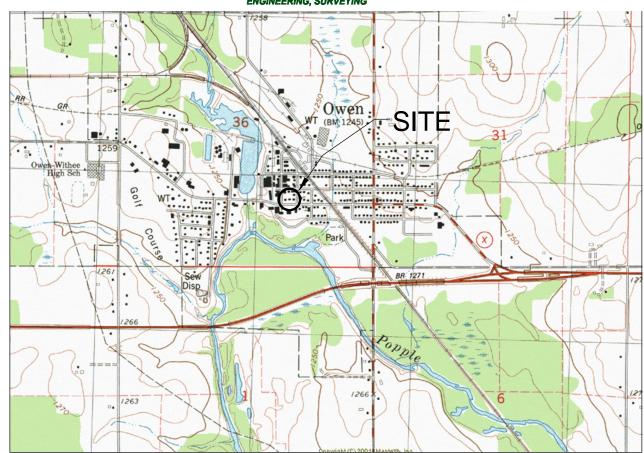
PAL = NR140.10 Preventive Action Limits

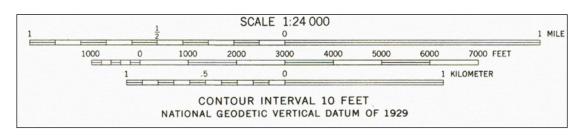
NA = Not Analyzed

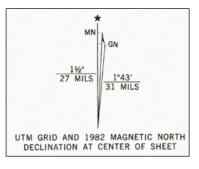
Enforcement Standard exceeded Preventive Action Limit exceeded

<sup>\* =</sup> Result between laboratory Limit of Detection and Limit of Quantitation (consider an estimated value)









- I:23PM PLOTTED BY: MATTM

JAN 28, 2019

PLOTTED:

LAYOUT: VICN

P:\1600-1699\1687-OW-SPORTS-LIQUOR\DWG\1687-VICN.DWG

FILE

DRAWING

# OWEN, WIS.

NE/4 OWEN 15' QUADRANGLE N4452.5-W9030/7.5

1982

DMA 2873 ! NE-SERIES V861



REI Engineering, INC.

OW SPORTS & LIQUOR 107 CENTRAL AVE OWEN, WISCONSIN

FIGURE 1 : SITE VICINITY MAP
PROJECT NO. DRAW

ECT NO. DRAWN BY: 1687 MCM

1/28/2019

# APPENDIX A

WELL ABANDONMENT FORMS, SOIL BORING LOGS, WELL CONSTRUCTION FORMS AND WELL DEVELOPMENT FORMS



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

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

p p			Route	to DNR Bureau:					
Verification Only	of Fill and Se	al		rinking Water		Watershed/W	/astewater	Remed	iation/Redevelopment
voinioution only	or i ili alia oc	- L	Πw	aste Manageme	nt 🗀	Other:			
1. Well Location Inform	nation	Z-Sale Za			2. Facility	/ Owner Inf	formation		
	WI Unique Well #	f of	licap#		Facility Nam				
Clark	Removed Well MW3				OW Sports	& Liquor			
Latitude / Longitude (see in	etructions)	Format 0	`ode	Method Code	Facility ID (I	FID or PWS)			
Latitude / Longitude (see in	N N			GPS008					
				SCR002	License/Per	mit/Monitoring	#		
	W			OTH001					
1/4 1/4 1/4	Section	Towr	iship	Range E	Original We				
or Gov't Lot #			N	w	OW Sports				
Well Street Address					Present We OW Sports				
107 Central Avenue			1			ress of Presen	t Owner	V-10-20-20	
Well City, Village or Town				ZIP Code	PO Box 147		it Owner		
Owen			54460	)	City of Pres	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic		State	ZIP Code
Subdivision Name			Lot #		Owen	cin Owner		WI	54460
D	Landa Danilla	: \A/- II	# -f D -:			iner Scree	en, Casing & Se	ealing Mate	
Reason for Removal from S	service Wil Or	ilque vveii	# of Rep	placement Well		d piping remov			Yes No N/A
Soil Excavation 3. Filled & Sealed Well	/ Drillholo / P	orobolo	n form	otion .	Liner(s) re	emoved?		П	Yes No N/A
				mm/dd/yyyy)	Liner(s) p	erforated?			Yes No N/A
Monitoring Well	12/04/20		(	,,,,,,,	Screen re	emoved?			Yes No N/A
Water Well					Casing le	ft in place?			Yes No N/A
Borehole / Drillhole	please at		n Repo	rt is available,	Was casi	ng cut off belov	w surface?	V	Yes No N/A
Construction Type:						ng material rise			Yes No N/A
✓ Drilled □ D	riven (Sandpoint)	Г	Dug		Did mater	rial settle after	24 hours?		Yes No N/A
Other (specify):	,	L	~		If yes	, was hole reto	opped?		Yes No N/A
Formation Type:							used, were they hy	ydrated	Yes ✓ No ☐ N/A
Unconsolidated Forma	tion [	Bedroo	sk.				n safe source? ng Sealing Materia		
Total Well Depth From Grou				/in \		ctor Pipe-Grav		r or Pipe-Pump	ned
	ind Surface (it.)	Casing D	lameter	(111.)		ned & Poured			
15					(Bento	nite Chips)	Other (Ex	xpiain):	
Lower Drillhole Diameter (in	.)	Casing D	epth (ft.	)	Sealing Mat		-	٦	
		5				Cement Grout	Ĺ	Concrete	
Was well annular space grou	ited?	Yes [	□ No	Unknown		Cement (Conc	,	Bentonite	
		J L					Monitoring Well Bo		
If yes, to what depth (feet)?	Depi	h to Water	(teet)		<b>✓</b> Bentor			tonite - Cem	
			ALTER SALES		Granu	lar Bentonite		tonite - Sand	
5. Material Used to Fill	Well / Drillhol	e			From (ft.)	To (ft.)	No. Yards, Sacks Volume (circ		Mix Ratio or Mud Weight
3/8" Bentonite Holeplug			THE PARTY NAMED IN		Surface	15	1/2 bag		
	NV-1000000000000000000000000000000000000								
6. Comments		医多种效果							
7. Supervision of Work		SAN MAR	<b>新</b> 夏季花	(4) 地名美国拉尔	<b>阿尔斯岛高兴</b>	<b>国的实际</b> 使体	89	DNR Use	Only
Name of Person or Firm Doi		ng Lice	nse #			or Verification	n Date Received		Noted By
REI Engineering, Inc				(mm/dd/yy	yy) 11/20/201	7			
Street or Route				Те	lephone Nun		Comments		
4080 N. 20th Avenue				(	715 ) 675	//			
City		State	ZIP C		/ // /	Person Doing	Work		te Signed
Wausau		WI	5440	71	sho l	cure		/	-21-19

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

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

					Route	to DNF	Bureau:		_					
Verificatio	n Only	of Fill	and Sea	al		rinking	Water		Watershed	Wastewater	<b>✓</b> Rem	ediation/R	ledevel	opment
					w	Vaste N	lanageme	nt	Other:		***************************************		***************************************	
1. Well Location	on Infor		學可能	BANKE S			<b>设势的研究</b>			nformation			<b>克莱基</b>	
County		WI Uniq	ue Well #	of H	licap#			Facility Na						
Clark		MW4						OW Sports	FID or PWS)					
Latitude / Longitu	de (see ir	struction	ns)	Format (			d Code SPS008	acility ib	(110 01 1 443)					
			N		D		SCR002	License/Pe	rmit/Monitorir	ng #			- Ultra	
			W		DM		OTH001							
1/4 / 1/4	1/4		Section	Towr	ship	Range	;	Original We						
or Gov't Lot#					N		☐ w	OW Sports Present We						
Well Street Addre								OW Sports						
107 Central Aven Well City, Village		,			IM/oll :	ZIP Co	do		dress of Pres	ent Owner				
Owen	OI TOWII				54460		ue	PO Box 14						
Subdivision Name	9		-		Lot #			City of Pres	sent Owner		State	ZIP C	ode	
								Owen			WI	54460	0	NATION CONT.
Reason for Remo	val from S	Service	WI Uni	que Well	# of Re	placem	ent Well		Liner, Screen  d piping rem	een, Casing &	Sealing Ma	7 7	N-	✓ N/A
Soil Excavation					-				removed?	oved r	F	_]Yes	No No	N/A N/A
3. Filled & Sea	led Wel		<b>nole / Bo</b> Original Co				hann		perforated?		Ė	Tyes [		N/A
✓ Monitoring V	Vell		12/04/200		i Date (	mmaa	, , , , , , ,		emoved?		Ē	Yes	No	□ N/A
Water Well		-						Casing le	eft in place?		Ī	Yes	No	☐ N/A
Borehole / D	Drillhole		f a Well Colease atta		n Repo	ort is av	ailable,	Was cas	ing cut off be	low surface?	Ī	Yes [	No	□N/A
Construction Type	e:							Did seali	ng material ri	se to surface?	Ē	Yes [	No	□ N/A
✔ Drilled		riven (S	andpoint)		Dug	l			erial settle afte			Yes [	No	□ N/A
Other (speci	ify):								s, was hole re		<u>_</u>	Yes	No	N/A
Formation Type:						<del>, , , , , , , , , , , , , , , , , , , </del>				e used, were they wn safe source?	nydrated [	Yes [	No	□ N/A
<b>✓</b> Unconsolidat	ted Forma	ation		Bedroo	k			Required M	ethod of Plac	ing Sealing Mater	ial		,	
Total Well Depth F	From Gro	und Surfa	ace (ft.)	Casing D	ameter	(in.)			uctor Pipe-Gr		tor Pipe-Pu	mped		
15				2				Scree (Bente	ned & Poure onite Chips)	Other (	Explain):			
Lower Drillhole Dia	ameter (ir	1.)		Casing D	epth (ft.	)		Sealing Ma	terials					
				5				Neat (	Cement Grou	t	Concre			
Was well annular s	space gro	uted?	П	Yes [	No	П	Jnknown		Cement (Cor			ite Chips		
If yes, to what dep			Depth	to Water					-	Monitoring Well I		•		
ii yes, to what dep	our (reet)?		Верин	i to water	(icci)				nite Chips		entonite - Ce		ut	
	<b>原</b> 明 第 图 6 3	<b>学校长年</b> 30000				ASSESSED NO.		State of the last	ılar Bentonite	No. Yards, Sac	entonite - Sa ks Sealant o		ix Ratio	or
5. Material Use		Well /	Drillhole					From (ft.)	To (ft.)	Volume (c		M	ud We	ight
3/8" Bentonite Hole	eplug							Surface	15	1/2 bag				
6. Comments											经验的基础			
						ned passant character	According to the second se	STATE OF THE PARTY						
7. Supervision	of Worl	,			New Search		Harris and San		<b>经过金融公司</b>	vales	DNR Us	o Only		
Name of Person o			g & Sealin	g Licer	nse #		Date of Fill	ing & Sealin	g or Verificat	on Date Receive		Noted E	Ву	
REI Engineering,		<del></del> .				(	mm/dd/yy	yy) 11/20/20	17					
Street or Route 4080 N. 20th Aver	nue						Te	lephone Nur 715 ) 67		Comments				
City				State	ZIP			Signature/ø	f Person Doir	ng Work	[0	ate Signe		
Wausau				WI	5440	JT		16/01	ans.			1-21	1-19	1

				reacycic	opment 🗹	(	Other							Page	1 of 1			
acility/Project	Name OV	/ Sports	& Liquor		License/Perm	nit/N	onito	ring N	ımber í	BRRTS	#03-1	0-18209	7 Bor	ing Nu	nber M	W-3R		
Boring Drilled E estra (Mitch Pa		Date Drilling Started Date Drilling 4/30/18								pleted	1	Hollow Auger						
VI Unique Well	No.	DNR	Well ID No.	II Name Final Static Water Level Su							evation	0	Bore 8.25	meter \				
ocal Grid Orgi	n □ (e	stimated	ted) ☐ or Boring Location ☑					Z Lat Long										
acility ID FID#	61006858	0	County C	lark		Co	unty	Code 1	0	Civi	I Tow	n/City/o	r Village	S 🗆 Owen			W□	
Sample			V										Soil	Prope	rties			
Number Type Length Att. & Recovered (in)	Blow Counts Depth In Feet		And Ge	ock Desc ologic Or h Major	igin For			U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
2	10 11 12 12 12 12 12 12 12 12 12 12 12 12	Blir EO EO	B B @15' BLS															

Facility/Project Name C Boring Drilled By: Nam Gestra (Mitch Panfil)		Liquor														
Soring Drilled By: Nam													1 of 1			
	License/Pern	I		rilling \$	Started		Da	0-18209 ite Drillii /30/18			nber MV	rilling N	rilling Method Hollow Stem			
VI Unique Well No.	DNR	Well ID No.	Common Well Name MW-4R		Final S	Static V	Vater Le	evel	Su	rface Ele		0	Boreh 8.25	ole Diar	meter	
ocal Grid Orgin 🗌 tate Plane	(estimated)	☐ or Boring	Location 🗹	Lat Long						Local G	Frid Loc	ation N 🗆 S 🗆			E 🗆 W 🗆	
acility ID FID #610068	580	County	Clark	C	ounty	Code 1	0	Civi	I Tow	n/City/o	r Village				***	
Sample											Soil	Prope	rties			
Number Type Length Att. & Recovered (in) Blow Counts	Depth In Feet	And Ge	tock Description cologic Origin For ch Major Unit			U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
3	2   3   4   5   4   5   6   7   7   8   8   9   10   11   12   13   14   15   EOE   17   18   19   18   19   19   19   19   19	3 @15' BLS	d the correct to the best of													

acility/Project Name	ow s	Sports & Liquor	License/Per	mit/l	Monitoring I	Number E	BRRTS	#03-1	0-18209	7 Bor	ing Nu	nber M	W-7	
Boring Drilled By: Notes that the Boring Drilled By: Notes that the Boring Bori	ame of	crew chief (first, last) a	ľ	Date Drilling 4/30/18			Da	ite Drillii /30/18				Hollow Auger		
VI Unique Well No.		DNR Well ID No.	Common Well Name MW-7	•	Final Static	Water Le	vel	Su	rface Ele		0	Bore 8.25	hole Diai	neter
ocal Grid Orgin ☐ tate Plane	(esti	mated) 🗌 or Boring	Location 🗹		Lat Long				Local G	irid Loc	ation N □ S □			E [
acility ID FID #6100	38580	County (	Clark	C	ounty Code	10	Civil	Tow	n/City/o	r Village				
Sample										Soil	Prope	rties		
Number Type Length Att. & Recovered (in) Blow Counts	Depth In Feet	And Ge	ock Description ologic Origin For th Major Unit		U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid	Plasticity Index	P 200	RQD/ Comments
2	1 - 2 - 3 - 4 - 5 - 5 - 6 - 5 - 7 - 5 - 6 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	A" Concrete SAND Brown sand (F-M) CLAY Brown/grey mottled clay SAND Brown sand (F-C) with -Wet with odor  SAND Grey sand layer -Petro odor SAND Brown sand (F-C) with  CLAY Brown/grey silty clay  EOB EOB @15' BLS	silt		SM CL		<u> </u>							

		Nemediado(i/)	Redevelopment 🛭		Other						Page	1 of 1		
acility/Project Name	OW Sports (	& Liquor	License/Pe	rmit	Monitoring N	lumber E	BRRTS	#03-1	0-18209	7 Bor		mber M		
oring Drilled By: Nar estra (Mitch Panfil)	ne of crew	chief (first, last) a	nd Firm		Date Drilling 4/30/18	Started			te Drilli 30/18	ng Com	pleted		Drilling N Hollow Auger	
I Unique Well No.	DNR	Well ID No.	Common Well Nam MW-8	е	Final Static	Water Le	evel	Sur	rface Ele		0	Bore 8.25	hole Dia	meter
ocal Grid Orgin 🗌 ate Plane	(estimated)	)□ or Boring	Location 🗹		Lat Long				Local G	irid Loc	ation N □ S □			E[
acility ID FID #610068	1580	County C	Clark	C	ounty Code	10	Civil	l Tow	n/City/o	r Village				901
Sample				-						Soil	Prope	rties		
Type Length Att. & Recovered (in) Blow Counts	Depth In Feet	And Geo	ock Description ologic Origin For h Major Unit		U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	SAN CL/3 CL/4 Silty  10  11  12  13  14  15  16  16  16  17  18  18  18  18  18  18  18  18  18	AY A			CL SM		<b>→</b>							

State of Wisconsin	
Department of Natura	Resources

MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 4.90

Env. Res	sponse & Repair 🔀 Unde	erground Tanks L Other L	
Facility/Project Name	Local Grid Location of		Well Name
OW Sports & Liquor	Feet SFeet W	Feet N. Feet E	MW-3R
Facility License Permit or Monitoring Number	Grid Origin Location		Wis. Unique Well Number DNR Well Number
BRRTS# 03-10-182097			
Type of Well Water Table Observation Well 11 12 12	Section Location of W	aste/Source 🗔	Date Well Installed
Distance Well Is From Waste/Source Boundary		<b>.</b>	E 4/30/18
Ft.			Well Installed By (Person's Name and Firm)  Gestra Engineering (Mitch Panfill)
Is Well A Point of Enforcement Std. Application  Yes No	Location of Well Relat u  Upgradient d  Downgradient	s 🗌 Sidegradient	Gestia Engineering (Mitch Faithii)
A. Protective pipe, top elevationft	. MSL	/	and lock? ☐ Yes ☒ No
B. Well casing, top elevationft	MSI		tective cover pipe: ide diameter:in.
C. Land surface elevationff		b. Ler c. Mai	
		10r _	Other
D. Surface seal, bottom1 ft. MSL or	-r. \		ditional protection?
12. USCS Classification of soil near screen:		3. Sur	face seal: Bentonite 🔲 30
		MI IN	Concrete   Other    Other   Other   Other   Other   Other   Other   Other   Other    Other    Other    Other    Other    Other    Other    Other    Other    Other    Other
		4. Ma	terial between well casing and protective pipe:
Bedrock .			Bentonite 🛛 30
13. Sieve analysis attached? ☐ Yes ☒ No			Annular space seal Other
14. Drilling method used Rotary 50		5 Ar	nnular space seal: a. Granular Bentonite 🛛 3
Hollow Stem Auger 🔀 41		b	Lbs/galmudweight Bentonite-sand slurry 35
			Lbs/gal mud weight Bentonite slurry 31  — %Bentonite Bentonite-cement grout 50
15. Drilling fluid used: Water 02 Air 01			6 ft <sup>3</sup> Volume added for any of the above winstalled: Tremie 01
Drilling Mud 🔲 03 None 🔀 🥯		R R	Tremie pumped 🔲 02
16. Drilling additives used?			Gravity 🖾 08
Describe		[3] [3] / <sup>6</sup> b en	tonite seal: a. Bentonite Granules ☐ 33 I/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite pellets ☑ 32
			Other
17. Source of water (attach analysis):		7. Fine	sand material Manufacturer, product name and mesh size
		a. #	lume addedft³
E. Bentonite seal, top ft. MSL or	ft	- P-91 P-91 /	pack material: Manufacturer, product name and mesh size
F. Fine sand, topft. MSL or	ft	A A / a. #	40
G. Filter pack, topft. MSL orft.	ft	1 1 1 1 /	lume addedft 3
H. Screen joint, topft. MSL or5	ft		Flush threaded PVC schedule 40 22 24 Other  Other
1. Well bottomft. MSL or5	ft	10. S	creen material: PVC
J. Filter pack, bottomft. MSL or5	ft		creen type: Factory cut 🔀 11
K. Borehole, bottomft. MSL or15	ft		Continuous slot U 01  Anufacturer Johnson Screen
L. Borehole, diameter 8.25 in.			ot size:in.
M. O.D. well casing 2.32 in.		d. SI	otted length: 10 ft.
N. I.D. well casing 2.07 in.		11. Ba	ckfill material (below filter Pack): None 🔀 14
I hereby certify that the information on this form is t	rue and correct to the be	est of my knowledge	
Signature Seeffer & (Jed Wood	(REI)	Firm RI	El Engineering, Inc. 80 N. 20th Ave.
Jeffer Land		W	ausau. W 5440'

Route To Solid Haste Haz. Haste Wastewater \_\_\_\_

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144,147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to tile this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only, see instructions for more information including where the completed form should be sent.

State of Wis	consin	
Department	of Natura	al Resources

MONITORING WELL	CONSTRUCTION
Form 4400-113A	Rev. 4.90

	oonse & Repair 🔼 Unde	ground rains	QIIG L.	
	Local Grid Location of		_	Well Name
OW Sports & Liquor	Feet S. Feet W	Feet <b>N</b> F	Feet E	MW-4R
	Grid Origin Location			Wis. Unique Well Number DNR Well Number
BRRTS# 03-10-182097				Date Well Installed
Type of Well Water Table Observation Well 11 Piezometer 12	Section Location of W	aste/Source	Пе	4/30/18
Distance Well Is From Waste/Source Boundary		,TN;R		Well Installed By (Person's Name and Firm)
Ft.	Location of Well Relat			Gestra Engineering (Mitch Panfill)
Is Well A Point of Enforcement Std. Application Yes No	u Upgradient d Downgradient	s Sidegradie	ent	
A. Protective pipe, top elevationft.	MSL			and lock? ☐ Yes ☒ No
		//		ective cover pipe; de diameter: in.
			b. Leng	oth:ft.
C. Land surface elevationft.			c. Mate	erial: Steel 04 Other 0
D. Surface seal, bottom1 ft. MSL or	_ft			itional protection? Yes No
12. USCS Classification of soil near screen:		X W	-3. Surfa	ace seal: Bentonite 30
GP□ GM□ GC□ GW□ SW□ SP		MILL		Concrete ☒ 01 ————————————————————————————————————
SM SC ML MH CL CH		IN IN	4. Mate	erial between well casing and protective pipe:
Bedrock 🗖				Bentonite 30
13. Sieve analysis attached? Yes No				Annular space seal Other
14. Drilling method used Rotary ☐ 50 Hollow Stem Auger ☑ 41			- 5. Ann	nular space seal: a. Granular Bentonite 🛛 33
Other			b	Libs/gal mudweight Bentonite-sand slurry 35  Lbs/gal mudweight Bentonite slurry 31
П. П.			d	_ %Bartarite Bentonite-cement grout L 50
15. Drilling fluid used: Water 02 Air 01 Drilling Mud 03 None 99				installed: Tremie 01
				Tremie pumped 202 Gravity 208
16. Drilling additives used?				onite <u>se</u> al: a. Bentonite Granules <u></u> 33
Describe	-			1/4 in, ⊠ 3/8 in. □ 1/2 in. Bentonite pellets ⊠ 32
17. Source of water (attach analysis):			.7. Fine sa	and material Manufacturer, product name and mesh size
			a. #15	443
E. Bentonite seal, top ft. MSL or1	ft	98/		ume addedTo back material: Manufacturer, product name and mesh size
F. Fine sand, topft. MSL or4	_ft	AA/	a. #4	0
G. Filter pack, topft. MSL or5				une added
H. Screen joint, topft. MSL or5		111	9. Well	I casing: Flush threaded PVC schedule 40 🔀 23  Flush threaded PVC schedule 80 🔲 24  Other 🗆
1. Well bottom ft. MSL or15	ft		10. Scr	reen material: PVC
J. Filter pack, bottom ft. MSL or5	ft	VIIII	a. Scr	reen type: Factory cut 🛛 11
K. Borehole, bottomft. MSL or15	ft			Continuous slot U 01  Other D  nufacturer Johnson Screen
L. Borehole, diameter 8.25 jn.				ot size:in.
M. O.D. well casing $2.32$ in.			\	otted length:ft.  ckfill material (below filter Pack): None 🔯 14
N. I.D. well casing $2.07_{in}$ .			11. Bac	ckfill material (below filter Pack): None 14
I hereby certify that the information on this form is to	ue and correct to the b			
Signature CJeck Way	ch REI)	Firm	408	.l Engineering, Inc. 30 N. 20th Ave. usau. VM 5440'

Route To Solid Haste Haz. Haste Wastewater

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144,147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to tile this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

State of Wisconsin	
Department of Natural Resources	

MONITORING WELL CO	ONSTRUCTION
Form 4400-113A	Rev. 4.90

Env. Res	ponse & Repair 🛛 Under	ground Tanks   Other	J	
Facility/Project Name	Local Grid Location of \		Well Name	
OW Sports & Liquor	Feet SFeet W	Feet N Feet E	MW-7	
	Grid Origin Location		Wis. Unique Well Number	DNR Well Number
BRRTS# 03-10-182097				
Type of Well Water Table Observation Well 🔲 11	Section Location of Wa	este/Source	Date Well Installed	
Piezometer			E 4/30/18	
Ft.			W Well Installed By (Person's I	
Is Well A Point of Enforcement Std. Application  Yes No	Location of Well Relati u	s Sidegradient	Gestra Engineering (Mitch	n Pantill)
A. Protective pipe, top elevationft.	. MSL	/	and lock? rtective cover pipe:	☐ Yes 🏻 No
B. Well casing, top elevationft.	MSL	/ a. Ins	side diameter:	in.
C. Land surface elevationft.	. MSL	b. Le c. Ma	ngth: iterial:	Steel 04
D. Surface seal, bottom1ft. MSL or	_ft.	d. Ad	ditional protection?	Other Yes No
	$\neg \setminus \overline{\mathbb{M}}$		ves, describe:	
12. USCS Classification of soil near screen;		3. Su	face seal:	Bentonite 30 Concrete 01
GP☐ GM☐ GC☐ GW☐ SW☐ SP SM☒ SC☐ ML☐ MH☐ CL☐ CH		M M / -		Other 🗌
Bedrock		4. Ma	aterial between well casing and	d protective pipe:  Bentonite 2 30
13. Sieve analysis attached? ☐ Yes ☒ No			Annula	ar space seal 🔲
14. Drilling method used Rotary 50				Other 🗌
Hollow Stem Auger 41		5. A	nnular space seal: a. Granu Lbs/gal mudweight Bentonite	lar Bentonite 🔀 33
Other 🗆		6	Lbs/gal mud weight Ber	ntonite slurry 🔲 31
15. Drilling fluid used: Water ☐ 02 Air ☐ 01		d. — e. 0.	%Bentonite Bentonite-o	ement grout L 50
Drilling Mud 03 None 299		10 of 10 of	ow installed:	Tremie 🔲 01
			Tr	emie pumped 202 Gravity 208
16. Drilling additives used?		.6. Be	ntonite seal: a. Bento	nite Granules 🔲 33
Describe		/ b. [	] 1/4 in. ⊠ 3/8 in. □ 1/2 in. Bei	ntonite pellets 🏻 32
17. Source of water (attach analysis):		P-9 P-9 /		
		[·] [·] / a =	sand material Manufacturer, product r #15	name and mesh size
E Dantaile and Law A MCL as 1		5.V	olume addedft <sup>3</sup>	
E. Bentonite seal, topft. MSL or1		8. Filte	r pack material: Manufacturer, product i	name and mesh size
F. Fine sand, topft. MSL or4		1. 1 1. 1	olume addedft 3	
G. Filter pack, topft. MSL orft.		9. W	ell casing: Flush threaded PVC	schedule 40 23
H. Screen joint, topft. MSL or5			Flush threaded PVC	Schedule 80 24
1. Well bottom ft. MSL or15	ft		Screen material: PVC	
J. Filter pack, bottomft. MSL or		a. S	Screen type:	Factory cut 🛭 11 ontinuous slot 🔲 01
K. Borehole, bottomft. MSL or5	ft		Manufacturer Johnson Screen	Other 🔲
L. Borehole, diameter 8.25 jn.		c. S	lot size:	in.
M. O.D. well casing $2.32$ in.			Slotted length: ackfill material (below filter Pac	
N. I.D. well casing 2.07 in.			askilli ili ateriai (below liitel Pac	Other D
I hereby certify that the information on this form is t			El Espiración des	
Signature Tell (Jed	Rosch REI)	4	EI Engineering, Inc. 080 N. 20th Ave. Vausau, W. 5440'	

Route To Solid Haste Haz. Haste Wastewater \_\_\_\_

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144,147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to tile this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only, see instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL	CONSTRUCTION
Form 4400-113A	Rev. 4.90

	sponse a Repair 🔼 Unde	aground ranks	ule Ц.	· · · · · · · · · · · · · · · · · · ·
Facility/Project Name	Local Grid Location of			Well Name
OW Sports & Liquor	Feet S. Feet V	/Feet N	Feet E	MW-8
Facility License Permit or Monitoring Number	Grid Origin Location			Wis. Unique Well Number DNR Well Number
BRRTS# 03-10-182097  Type of Well Water Table Observation Well 🔀 11				Date Well Installed
	Section Location of W	aste/Source	ПЕ	4/30/18
Distance Well Is From Waste/Source Boundary	1/4 of1/4 of Sec	T N:		Well Installed By (Person's Name and Firm)
Ft.	Location of Well Relat			Gestra Engineering (Mitch Panfill)
Is Well A Point of Enforcement Std. Application	u Dpgradient			
Yes No	d Downgradien	n Not Know	vn	
			.1. Cap a	and lock? ☐ Yes ☒ No
A. Protective pipe, top elevation	t. MSL	/	/	ective cover pipe:
B. Well casing, top elevationf	t. MSL	//	/ a. Insid	de diameter: in.
C. Land surface elevationf	t. MSL		b. Leng c. Mate	
D. Surface seal, bottom1ft. MSL or			d Add	Other   Yes   No
D. Surface seal, bottom it. Moc or	_ \			es, describe:
12. USCS Classification of soil near screen:		131 IKI	→3. Surfa	ace seal: Bentonite 30
	o l	WI 113		Concrete ☒ 01 Other ☐
	·		✓ 4. Mat	erial between well casing and protective pipe:
Bedrock				Bentonite X 30
13. Sieve analysis attached? ☐ Yes ☒ No				Annular space seal — Other
14. Drilling method used Rotary ☐ 50 Hollow Stem Auger ☑ 47			— 5. An	nular space seal: a. Granular Bentonite 🔀 33
———————————Other			b	Lbs/gal mudweight Bentonite-sand slurry 35 Lbs/gal mud weight Bentonite slurry 31
			d	%Bertonite Bentonite-cement grout 50
15. Drilling fluid used: Water 02 Air 00 Prilling Mud 03 None 9				5_ ft <sup>3</sup> Volume added for any of the above w installed: Tremie ☐ 01
Drining Wad 2 05 Notice 2 5				Tremie pumped 🔲 02
16. Drilling additives used?	,		6 D4	Gravity ⊠ 08 onite seal: a. Bentonite Granules □ 33
Describe				onite seal: a. Bentonite Granules ☐ 33 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
17. Source of water (attach analysis):			/ c	Other 🗌
17. Source of water (attach analysis).			7. Fine s a. #1	sand material Manufacturer, product name and mesh size
			b. Vol	lume addedft³
E. Bentonite seal, top ft. MSL or	ft		. 8. Filter	pack material: Manufacturer, product name and mesh size
F. Fine sand, topft. MSL or4	ft	-HH	a. #4	
G. Filter pack, top ft. MSL or4.	5 ft			iunie added
H. Screen joint, topft. MSL or5		1	9. Wel	Il casing: Flush threaded PVC schedule 40 23 Flush threaded PVC schedule 80 24
1. Well bottom ft. MSL or	5ft			creen material: PVC
J. Filter pack, bottom ft. MSL or5	ft	777777		reen type: Factory cut 🔀 11
K. Borehole, bottomft. MSL or				Continuous slot 🔲 01
L. Borehole, diameter 8.25 jn.		-Million		anufacturer Johnson Screen ot size:  0.10 in.
M. O.D. well casing 2.32 in.		/		otted length:ft.
N. I.D. well casing 2.07 in.			11. Ba	ckfill material (below filter Pack); None 🔀 14
I hereby certify that the information on this form is	true and correct to the b	est of my knowle		
Signature / // (Ted)	(asch REI)	Firm	RE 40	El Engineering, Inc. 80 N. 20th Ave.
Jan Jun Geal	DOWN NOW	_	Wa	ausau. W 5440'

Route To Solid Haste Haz. Haste Wastewater

Department of Natural Resources				Waste ☐ Wastewater ☐ erground Tanks ☐ Othe		I400-113B	Rev. 4.90
Facility/Project Name		County Nar	ne		Well Name	×	
O-W Sports and Liquor		Clark		1	MW-3R		
Facility Licence, Permit or Monitoring Nu	mber	County Co	de	Wis. Unique Well Numb		NR Well Number	
Facility ID#610068580		10			'		
1. Can this well be purged dry?	⊠ Yes □	No		Poforo Do	velopment	After Develo	nmont
				Belore De	velopinent	Alter Develo	pment
2. Well development method			11 0	epth to Water		1	
surged with bailer and balled	☐ 41		(	from top of a. 5.30	ft.	13.20 ft.	
surged with bailer and pumped	<b>区</b> 61		W	ell casing			
surged with block and bailed	42		D	ata b. 5/9/1	8	5/9/18	
surged with block and pumped	□ 62		n	nm/dd/yy	p.m.		p.m.
surged with block, bailed and pumped	70		Т	ime c. 11:55		12:10	] am
compressed air	<u> </u>						
bailed only	10		12. S	sediment in 1 inch	es	0 inches	
pumped only	∐ 51		100000000000000000000000000000000000000	ell bottom			
pumped slowly	<u></u> □ 50						
Other	- LJ		13.	Water clarity Clear	10	Clear	10
				Turbid	15		15
3. Time spent developing well	15 ,	min.		(Descr	ibe)	(Describe)	
	,		-			-	
	14.67	fl.	_				
4. Depth of well (from top of Casing)	14.07	II.	_				
	2.05						
5. Inside diameter of well	2.07	in.					
			-				
6. Volume of water in filter pack and well ca	sing $8.9$	gal.	l				
			FIII	in if drilling fluids were	used and well is	at solid waste facility:	
7. Volume of water removed from well	10	gal.				1	
8. Volume of water added (If any)		gal.		Total suspended solids	mg/l	mg/l	
		•					
9. Source of water added			15. 0	COD	mg/l	mg/l	
3. Source of water added							
10. Analysis performed on water added? (If yes, attach results)	Yes	No					
40 Addistance community and the community							<del></del>
16. Additional comments on development:							
Well pumped dry multiple times							
Well developed by: Person's Name and Firm	1			ereby certify that the all my knowledge.	bove Information	n is true and correct	to the best
Name: Jed Kosch (REI)					,		
			Sign	ature:	Moch		
			Sign	alule.	Car Day		-
Firm: REI Engineering, I 4020 N 20th Ave.	nc.		Prin	t Initials: 🗕 🗕 🗕			
Wausau, WI 54401			Firr	m <u>: REI Engineerin</u>	g. Inc.		
			1				

State of Wisconsin

MONITORING WELL DEVELOPMENT

Department of Natural Resources				Waste Wasterground Tanks			rm 440 –	0-113B	Rev. 4.90
Facility/Project Name	County Na								
O-W Sports and Liquor		Clark		·	-	/-4R			
Facility Licence, Permit or Monitoring Nu	mber	County Co	de	Wis. Unique W	ell Number		DNR	Well Number	
Facility ID#610068580		10					Ь,		
1. Can this well be purged dry?	X Yes	No		Bet	fore Develo	pment		After Deve	elopment
2. Well development method									
surged with bailer and balled	<b>1</b> 41			epth to Water from top of	a. 4.81 ft.		- 1	13.35 ft.	
surged with bailer and pumped	<b>⊠</b> 61			ell casing	a. 4.01 II.			15.55 ft.	
surged with block and bailed	42				# 10 ta 0		- 1	# 10 Is 6	
			200		b. 5/9/18	_		5/9/18	_
surged with block and pumped	62		"	nm/dd/yy		□ p.m	n		⊠ p.m.
surged with block, bailed and pumped	70		T	ime	c. 12:14	a.m	n	12:35	a.m.
compressed air	20								
bailed only	□ 10		12 5	ediment in 1	inches			0 inches	
pumped only	51			ell bottom	mones				
pumped slowly	□ 50								
Other	- 🗆		12	Water clarity	Olean	□ 10		Class	□ 40
			13.	water clarity	Clear Turbid	10 15		Clear Turbid	10 15
					(Describe)			(Describe)	
3. Time spent developing well	21	min.			(/			ζ=====,	
4. Depth of well (from top of Casing)	14.45	ft.							
4. Depth of well (from top of dashig)									
	2.07		_						
5. Inside diameter of well	2.07	in.	_						
6. Volume of water in filter pack and well car	sing 9,2	gal,	-				!		
			FIII	in it arilling tiul	as were usea	and wei	ii is at s	solid waste facilit	ty:
7. Volume of water removed from well	10	gal.					- 1		
			14	Total suspended	ч	m g	g/I	mg/l	
8. Volume of water added (If any)		gal.		solids					
			15. 0	COD		m	g/l	mg/l	!
9. Source of water added									
							- 1		
10. Analysis performed on water added? (If yes. attach results)	Yes	] No					ļ		
16. Additional comments on development:									
Well pumped dry multiple times									
Well developed by: Person's Name and Firm				ereby certify th my knowledge.		Informa	ation is	true and correc	ct to the best
Name Led Kosch (REI)									
Name: Jed Kosch (REI)				6	1/1	111	1		
			Sign	ature:	141	199	4		
Firm: REI Engineering, I	nc,		Prin	t Initials:					
4020 N 20th Ave.									
Wausau, WI 54401			Firr	n <u>: REI Engi</u>	neering. Ir	10			

MONITORING WELL DEVELOPMENT

State of Wisconsin

Department of Natural Resources			Haz. Waste Wastewater Underground Tanks Othe		400-113B Rev. 4.90
Facility/Project Name		County Nar	ne	Well Name	
O-W Sports and Liquor		Clark		MW-7	
Facility Licence, Permit or Monitoring Nu	mber	County Co			IR Well Number
Facility ID#610068580		10			
1. Can this well be purged dry?	X Yes	No	Before De	velopment	After Development
2. Well development method					
surged with bailer and balled	☐ 41		11. Depth to Water (from top of a. 5.80	ft	13.05 ft.
surged with bailer and pumped	61		well casing		n.
surged with block and bailed	42		Data b. 5/9/1	Q	5/9/18
surged with block and pumped	☐ 62		mm/dd/yy		
surged with block, bailed and pumped	70		Time c. 11:2'	☐ p.m. 7 🖾 a.m.	□ p.m 11:50 ■ a.m
compressed air	20		Time c. 11:2	7 ⊠ a.m.	11:50 🖾 a.m
bailed only	10				
pumped only	□ 51		12. Sediment in 1 inch	ies	0 inches
pumped slowly	☐ 50		well bottom		
Other	- 🗖 🖺		13. Water clarity Clear	П 40	Π 40
	_		13. Water clarity Clear Turbid	X 10	Clear 10 Turbid 15
			(Descr		(Describe)
3. Time spent developing well	23	nin.	,		
4. Depth of well (from top of Casing)	14.76	ft.			
4. Boptin of Well (Holli top of Gusting)					
F. Louis all and a second	2.07		+		
5. Inside diameter of well	2.07	in.	-		
6. Volume of water in filter pack and well ca	sing 8.5	gal.			
			Fill in if drilling fluids were	used and well is a	at solid waste facility:
7. Volume of water removed from well	10	gal.			1
8. Volume of water added (If any)	9	gal.	14. Total suspended solids	mg/l	mg/l
			15. COD	mg/l	mg/l
9. Source of water added		_			1
10. Analysis performed on water added? (If yes. attach results)	Yes C	No			
16. Additional comments on development:					
Well pumped dry multiple times					
Well developed by: Person's Name and Firm	1			bove Information	is true and correct to the best
			of my knowledge.		
Name: Jed Kosch (REI)				1,,,	
			Signature: 9	1/1/2	
Fig. 18 Fig. 18			orginature.	(4) 7 1	
Firm: REI Engineering, I 4020 N 20th Ave.	n.c.		Print Initials:		
Wausau, WI 54401			Firm: REI Engineerin	q. Inc.	

MONITORING WELL DEVELOPMENT

State of Wisconsin

Department of Natural Resources				Waste ☐ Wastewater☐		400-113B Rev. 4.90
	Env. Response	e & Repair 🔲	Unde	erground Tanks 🔲 Other	· U	
Facility/Project Name		County Nar	ne		Well Name	
O-W Sports and Liquor		Clark			AW-8	
Facility Licence, Permit or Monitoring Nu	mber	County Co	de	Wis. Unique Well Numbe	er DN	R Weil Number
Facility ID#610068580		10				
1. Can this well be purged dry?	X Yes	No				
				Before Dev	relopment	After Development
2. Well development method			11 0	epth to Water		1
surged with bailer and balled	41			from top of a. 6.04	ft.	13.82 ft.
surged with bailer and pumped	<b>⊠</b> 61		w	ell casing		
surged with block and bailed	42		D	ata b. 5/9/18		5/9/18
surged with block and pumped	62		l n	nm/dd/yy	D.m.	□ p.m.
surged with block, bailed and pumped	70		т	ime c. 10:59	a.m	11:14 🖾 a.m
compressed air	20		'		and City	
bailed only	<u> </u>		12 6	ediment in 1 inche		0 inches
pumped only	<u> </u>			ell bottom	75	a menee
pumped slowly	☐ 50					
Other	- 🗆		13.	Water clarity Clear	<b>1</b> 0	Clear 🛛 10
				Turbid	<b>⊠</b> 15	Turbid 15
3. Time spent developing well	15	min.		(Describ	oe)	(Describe)
3. Time spent developing wen	10 /	nin.	_			
			-			-
4. Depth of well (from top of Casing)	14.50	ft.	-			
			-			
5. Inside diameter of well	2.07	in.	-			
6. Volume of water in filter pack and well case	sing 8.0	gal.				,
The second control of			Fill	in if drilling fluids were u	sed and well is a	t solid waste facility:
7. Volume of water removed from well	10	gal.				1
8. Volume of water added (If any)		gal.		Fotal suspended solids	mg/l	mg/l
or torum or water added (in any)		gai.				
			15. 0	COD	mg/l	mg/l
9. Source of water added			1			1
						1
		1				1
<ol> <li>Analysis performed on water added? (If yes. attach results)</li> </ol>	Yes	] No	1			,I
(ii yes. attacii results)						
16. Additional comments on development:						-11
Well pumped dry multiple times						
wen pumped dry maniple times						
Well developed by: Person's Name and Firm				ereby certify that the ab my knowledge.	ove Information	is true and correct to the best
				my knowledge.	,	
Name: Jed Kosch (REI)				1/	16	
			Sign	ature:	CAN	
Firm: RELEngineering, I	10.		Print	Initials:	1/	
4020 N 20th Ave.						
Wausau, WI 54401			Firr	n <u>: REI Engineering</u>	.lnc.	

MONITORING WELL DEVELOPMENT

Form 4400-113B

State of Wisconsin

## APPENDIX B

## SOIL DISPOSAL DOCUMENTATION



LINCOLN COUNTY LANDFILL 715-536-9636 Site: N4750 Landfill Lane, Merrill, WI 54452 Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452 OPERATING HOURS: Monday-Friday SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm 1st and 3rd Sat. 8:00 am - Noon
DATE: 5/14/2018
BILL TO: R.E.I. HAULER: R.E.I.
JOB : 18 - 21 B - REI #1687 OW Sport, Owen PO# : REI job #1687
\$23.00 ton exempt (CON31)
Scale Notes: Charge Transaction
HAVE A NICE DAY!
Customer Signature Weighed By: Administrator
I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

## APPENDIX C

## **GROUNDWATER ANALYTICAL REPORTS**







July 30, 2018

DAVID LARSEN REI 4080 NORTH 20TH AVENUE Wausau, WI 54401

RE: Project: 1687 OW SPORT Pace Project No.: 40172822

#### Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on July 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

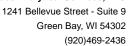
Sincerely,

Brian Basten brian.basten@pacelabs.com (920)469-2436

Project Manager

Enclosures







#### **CERTIFICATIONS**

Project: 1687 OW SPORT

Pace Project No.: 40172822

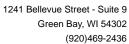
#### **Green Bay Certification IDs**

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

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

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





#### **SAMPLE SUMMARY**

Project: 1687 OW SPORT

Pace Project No.: 40172822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40172822001	MW3R	Water	07/17/18 08:15	07/20/18 08:50
40172822002	MW4R	Water	07/17/18 08:30	07/20/18 08:50
40172822003	MW7	Water	07/17/18 08:45	07/20/18 08:50
40172822004	MW8	Water	07/17/18 09:00	07/20/18 08:50



#### **SAMPLE ANALYTE COUNT**

Project: 1687 OW SPORT

Pace Project No.: 40172822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40172822001	MW3R	WI MOD GRO	ALD	10
40172822002	MW4R	WI MOD GRO	ALD	10
40172822003	MW7	WI MOD GRO	ALD	10
40172822004	MW8	WI MOD GRO	ALD	10



#### **ANALYTICAL RESULTS**

Project: 1687 OW SPORT

Pace Project No.: 40172822

Date: 07/30/2018 12:58 PM

Sample: MW3R	Lab ID:	40172822001	Collected	: 07/17/1	8 08:15	Received: 07	7/20/18 08:50 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	645	ug/L	5.1	1.5	5		07/27/18 10:01	71-43-2	
Ethylbenzene	10.2	ug/L	5.5	1.6	5		07/27/18 10:01	100-41-4	
Methyl-tert-butyl ether	3.3J	ug/L	5.4	1.6	5		07/27/18 10:01	1634-04-4	
Naphthalene	21.2	ug/L	8.4	2.5	5		07/27/18 10:01	91-20-3	
Toluene	4.7J	ug/L	8.2	2.4	5		07/27/18 10:01	108-88-3	
1,2,4-Trimethylbenzene	5.7	ug/L	5.7	1.7	5		07/27/18 10:01		
1,3,5-Trimethylbenzene	2.9J	ug/L	5.4	1.6	5		07/27/18 10:01		
m&p-Xylene	10.6J	ug/L	10.9	3.3	5		07/27/18 10:01		
o-Xylene	2.1J	ug/L	5.2	1.6	5		07/27/18 10:01		
Surrogates	2.10	ug/L	0.2	1.0	Ü		01/21/10 10:01	30 H1 0	
a,a,a-Trifluorotoluene (S)	103	%	80-120		5		07/27/18 10:01	98-08-8	
Sample: MW4R	I ah ID:	40172822002	Collected	: 07/17/1	R 08·30	Received: 07	7/20/18 08·50 M	atrix: Water	
Campic. MVV-IX	Lab ID.	40112022002	Conceted	. 07/17/10	3 00.50	received. Of	720/10 00:30	atrix. Water	
Parameters	Results	Units	LOQ	LOD	DF_	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	26.3	ug/L	5.1	1.5	5		07/26/18 17:26	71-43-2	
Ethylbenzene	229	ug/L	5.5	1.6	5		07/26/18 17:26	100-41-4	
Methyl-tert-butyl ether	1.7J	ug/L	5.4	1.6	5		07/26/18 17:26	1634-04-4	
Naphthalene	86.0	ug/L	8.4	2.5	5		07/26/18 17:26	91-20-3	
Toluene	109	ug/L	8.2	2.4	5		07/26/18 17:26	108-88-3	
1,2,4-Trimethylbenzene	306	ug/L	5.7	1.7	5		07/26/18 17:26	95-63-6	
1,3,5-Trimethylbenzene	86.4	ug/L	5.4	1.6	5		07/26/18 17:26		
m&p-Xylene	754	ug/L	10.9	3.3	5		07/26/18 17:26		
o-Xylene	383	ug/L	5.2	1.6	5		07/26/18 17:26		
Surrogates	000	ug/L	0.2	1.0	Ŭ		01720710 17.20	00 11 0	
a,a,a-Trifluorotoluene (S)	102	%	80-120		5		07/26/18 17:26	98-08-8	
Sample: MW7	Lab ID:	40172822003	Collected	: 07/17/1	8 08:45	Received: 07	7/20/18 08:50 M	atrix: Water	
Danie sa ataua	Decelle	11-26-	100	1.00	DE	Danasasad	A b d	040 N	01
Parameters	Results -	Units	LOQ _	LOD	DF ——	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		07/26/18 17:52		
Ethylbenzene	8.6	ug/L	1.1	0.33	1		07/26/18 17:52		
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		07/26/18 17:52	1634-04-4	
Naphthalene	14.6	ug/L	1.7	0.51	1		07/26/18 17:52	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		07/26/18 17:52	108-88-3	
1,2,4-Trimethylbenzene	40.4	ug/L	1.1	0.34	1		07/26/18 17:52	95-63-6	
1,3,5-Trimethylbenzene	28.7	ug/L	1.1	0.33	1		07/26/18 17:52	108-67-8	
-		-	0.0	0.00				.=	
m&p-Xylene	15.6	ug/L	2.2	0.66	1		07/26/18 17:52	179601-23-1	



#### **ANALYTICAL RESULTS**

Project: 1687 OW SPORT

Pace Project No.: 40172822

Date: 07/30/2018 12:58 PM

Sample: MW7	Lab ID:	40172822003	Collecte	d: 07/17/1	8 08:45	Received: 07	/20/18 08:50 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MO	DD GRO						
Surrogates a,a,a-Trifluorotoluene (S) 107 %		80-120		1		07/26/18 17:52	98-08-8		
Sample: MW8	Lab ID:	40172822004	Collecte	d: 07/17/1	8 09:00	Received: 07	/20/18 08:50 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MO	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		07/26/18 10:37	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		07/26/18 10:37	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		07/26/18 10:37	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		07/26/18 10:37	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		07/26/18 10:37	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		07/26/18 10:37	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		07/26/18 10:37	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		07/26/18 10:37	179601-23-1	
o-Xylene <b>Surrogates</b>	<0.32	ug/L	1.0	0.32	1		07/26/18 10:37	95-47-6	
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		07/26/18 10:37	98-08-8	



#### **QUALITY CONTROL DATA**

Project: 1687 OW SPORT

Pace Project No.: 40172822

Date: 07/30/2018 12:58 PM

QC Batch: 295512 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water

Associated Lab Samples: 40172822001, 40172822002, 40172822003, 40172822004

METHOD BLANK: 1727507 Matrix: Water
Associated Lab Samples: 40172822001, 40172822002, 40172822003, 40172822004

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	07/26/18 08:55	
1,3,5-Trimethylbenzene	ug/L	< 0.33	1.1	07/26/18 08:55	
Benzene	ug/L	< 0.31	1.0	07/26/18 08:55	
Ethylbenzene	ug/L	< 0.33	1.1	07/26/18 08:55	
m&p-Xylene	ug/L	<0.66	2.2	07/26/18 08:55	
Methyl-tert-butyl ether	ug/L	< 0.32	1.1	07/26/18 08:55	
Naphthalene	ug/L	<0.51	1.7	07/26/18 08:55	
o-Xylene	ug/L	< 0.32	1.0	07/26/18 08:55	
Toluene	ug/L	< 0.49	1.6	07/26/18 08:55	
a,a,a-Trifluorotoluene (S)	%	102	80-120	07/26/18 08:55	

LABORATORY CONTROL SAMPLE & LCSD: 1727508 1727509												
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max			
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers		
1,2,4-Trimethylbenzene	ug/L	20	19.7	20.4	99	102	80-120	3	20			
1,3,5-Trimethylbenzene	ug/L	20	19.1	19.7	95	99	80-120	3	20			
Benzene	ug/L	20	20.2	19.9	101	100	80-120	1	20			
Ethylbenzene	ug/L	20	19.9	20.1	99	100	80-120	1	20			
m&p-Xylene	ug/L	40	39.1	39.8	98	99	80-120	2	20			
Methyl-tert-butyl ether	ug/L	20	19.8	20.5	99	103	80-120	4	20			
Naphthalene	ug/L	20	18.3	20.4	92	102	80-120	11	20			
o-Xylene	ug/L	20	19.9	20.2	99	101	80-120	2	20			
Toluene	ug/L	20	20.2	20.1	101	101	80-120	0	20			
a,a,a-Trifluorotoluene (S)	%				101	102	80-120					

MATRIX SPIKE & MATRIX SP	PIKE DUPLICA	TE: 17279	73		1727974							
			MS	MSD								
	4	0172842003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	21.8	22.3	109	111	51-160	2	20	
1,3,5-Trimethylbenzene	ug/L	< 0.33	20	20	21.1	21.5	105	108	56-146	2	20	
Benzene	ug/L	< 0.31	20	20	21.4	21.4	107	107	71-137	0	20	
Ethylbenzene	ug/L	< 0.33	20	20	21.9	22.0	110	110	71-141	0	20	
m&p-Xylene	ug/L	<0.66	40	40	43.2	43.5	108	109	66-141	1	20	
Methyl-tert-butyl ether	ug/L	0.70J	20	20	20.6	21.5	100	104	80-120	4	20	
Naphthalene	ug/L	<0.51	20	20	20.4	21.9	102	110	67-138	7	20	
o-Xylene	ug/L	< 0.32	20	20	21.7	21.9	109	110	75-133	1	20	
Toluene	ug/L	< 0.49	20	20	21.9	21.9	109	109	76-134	0	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.



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



#### **QUALITY CONTROL DATA**

Project: 1687 OW SPORT

Pace Project No.: 40172822

Date: 07/30/2018 12:58 PM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1727973 1727974

MS MSD

40172842003 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result % Rec % Rec RPD RPD Qual Result Result Limits % a,a,a-Trifluorotoluene (S) 101 101 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.



#### **QUALIFIERS**

Project: 1687 OW SPORT

Pace Project No.: 40172822

#### **DEFINITIONS**

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

Date: 07/30/2018 12:58 PM



#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 1687 OW SPORT

Pace Project No.: 40172822

Date: 07/30/2018 12:58 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40172822001	MW3R	WI MOD GRO	 295512		,
40172822002	MW4R	WI MOD GRO	295512		
40172822003	MW7	WI MOD GRO	295512		
40172822004	MW8	WI MOD GRO	295512		

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Company N		9-1										UPPER MID				Page	1 of
Branch/Loc	cation:					Pac	e An	alvti	ical®	)	•	mia. 012-001	7-1700	<b>WI</b> : 920-469-2436			
Project Con	ntact:	110 CASED	enga dan manganan d		/		www	pacelab:	s.com			D 1.				40172828	2
Phone:	7/0	-675-9764				<b>~</b> 1 1	A 25			h 80 M arms a		CH,		Quote #:			
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☐ EP.	A Level IV	NOT needed on	C = Charcoal O = Oil S = Soil	GW = Grou SW = Surfa WW = Was	ace Water ste Water	Analyses Requeste	1	1				TO Charles on the charles of the cha		Invoice To Phone:		and the second s	
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**Sample Preservation Receipt Form** Client Name: Project # 40172822

All containers needing preservation have been checked and noted below: 

Yes 

No Julya Lab Lot# of pH paper: Initial when Lab Std #ID of preservation (if pH adjusted): Date/ completed: Time: Glass /OA Vials (>6mm) Plastic **Vials** laOH+Zn Act pH Jars after adjusted General AG10 12SO4 pH ≤2 AG40 aOH pH ≥12 AG5U AG2S BG3U BP1U Pace BP2N 8 Volume **BP3U** ВРЗС BP3N BP2Z **BP3S** DG9A DG9T **JG90** VG9H VG9M WGFU VG9D **MPFU** JGFU Lab # 핂 ZPLC (mL) SP5T CS 001 002 2.5 / 5 / 10 3 003 2.5 / 5 / 10 004 2.5 / 5 / 10 005 7 2.5/5/10 006 2.5 / 5 / 10 007 2.5/5/10 008 2.5 / 5 / 10 009 2.5 / 5 / 10 010 2.5 / 5 / 10 011 2.5 / 5 / 10 012 2.5 / 5 / 10 013 2.5/5/10 014 2.5 / 5 / 10 015 2.5/5/10 016 2.5 / 5 / 10 017 2.5 / 5 / 10 018 2.5 / 5 / 10 019 2.5 / 5 / 10 020 2.5 / 5 / 10 Exceptions to preservation check: AA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: 2.5 / 5 / 10 Headspace in VOA Vials (>6mm) : □Yes pro □N/A \*If yes look in headspace column AG1U 1 liter amber glass BP1U 1 liter plastic unpres AG1H 1 liter amber glass HCL DG9A 40 mL amber ascorbic BP2N **JGFU** 4 oz amber jar unpres 500 mL plastic HNO3 AG4S 125 mL amber glass H2SO4 DG9T 40 mL amber Na Thio BP2Z WGFU 500 mL plastic NaOH, Znact 4 oz clear jar unpres AG4U 120 mL amber glass unpres VG9U 40 mL clear vial unpres 250 mL plastic unpres **WPFU** BP3U 4 oz plastic jar unpres AG5U 100 mL amber glass unpres VG9H 40 mL clear vial HCL BP3C 250 mL plastic NaOH 500 mL amber glass H2SO4 VG9M 40 mL clear vial MeOH SP5T **BP3N** 250 mL plastic HNO3 120 mL plastic Na Thiosulfate BG3U 250 mL clear glass unpres VG9D 40 mL clear vial DI **BP3S** 250 mL plastic H2SO4 ZPLC ziploc bag GN:

Pace Analytical

Document Name:

Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

Issuing Authority:

Issuing Authority: Pace Green Bay Quality Office

1241 Bellevue Street, Green Bay, WI 54302

Document No.: F-GB-C-031-Rev.07

# Sample Condition Upon Receipt Form (SCUR)

Client Name: 751		Project	# LIO# ·	10170000
			WOH . 2	40172822
Courier: CS Logistics Fed Ex S	peedee FUPS 😿	<b>)</b> Waltco		
Tracking #: 179,0087			40172822	
Custody Seal on Cooler/Box Present:	on A no Southing	- Parameter		And the state of t
Custody Seal on Samples Present:  yes	s 100 Seals Inta	act:   yes   no		
Packing Material: ** Bubble Wrap	Bubble Bags I N	act: T yes T no		
Thermometer Used SR - 2)	Type of Ice: W	Bule Dry None		
Cooler Temperature Uncorr: 1. () /Co	or: 1. ()	by Dry None	Samples of	n ice, cooling process has begun
Temp Blank Present: yes Xno	Biologica	l Tissue is Frozen:	Process	
Temp should be above freezing to 6°C.		1.00dc 13 1 102e11;	yes no	Person examining contents:
Biota Samples may be received at ≤ 0°C.				Date: + HONG
Chain of Custody Present:	Yes DNo DN	/A 1.		
Chain of Custody Filled Out:	<i>n</i>	10	0.031/	
Chain of Custody Relinquished:	Yes 🗆 No 🗆 N/		Mil/invoice	1000 In 7/2011
Sampler Name & Signature on COC:	Dres Ono On			
Samples Arrived within Hold Time:	Øres □No			
- VOA Samples frozen upon receipt	☐Yes ☐No	5.		
Short Hold Time Analysis (<72hr):		Date/Time:		
Rush Turn Around Time Requested:	☐Yes <b>M</b> No	6.		
Sufficient Volume:	□Yes III)lo	7.		
- · · · M	SD: UYes Mo UN/A	8.		
Correct Containers Used:	Vres ONo			
-Pace Containers Used:	*	9.		
-Pace IR Containers Used:	Pres ONO ON/A			
Containers Intact:	☐Yes ☐No XIA			
	Mayes □No	10.		
Filtered volume received for Dissolved tests	□Yes □No Mo/A	11.		
Sample Labels match COC:	□Yes Wo □N/A	12. ID:002	(29(3) have	callective of "8:15"
-Includes date/time/ID/Analysis Matrix:	<u> </u>		· ()-)	8.15
Trip Blank Present:	□Yes Que □N/A	13.		JM 7/2
Trip Blank Custody Seals Present	□Yes □No □			
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution: Person Contacted:		If che	cked see attached	60
Comments/ Resolution:	Date/T	me:	oned, see allached	form for additional comments
Desired				
Project Manager Review:			Doto	7 10.18
	1)/		Date:	7-20-18
	W11			





May 14, 2018

DAVID LARSEN REI 4080 NORTH 20TH AVENUE Wausau, WI 54401

RE: Project: 1687 OW SPORTS

Pace Project No.: 40168596

#### Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on May 04, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

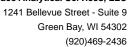
Brian Basten

brian.basten@pacelabs.com

(920)469-2436 Project Manager

Enclosures







#### **CERTIFICATIONS**

Project: 1687 OW SPORTS

Pace Project No.: 40168596

#### **Green Bay Certification IDs**

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

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

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



#### **SAMPLE SUMMARY**

Project: 1687 OW SPORTS

Pace Project No.: 40168596

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168596001	MW-1	Water	04/30/18 11:20	05/04/18 08:50
40168596002	MW-2	Water	04/30/18 11:50	05/04/18 08:50
40168596003	MW-5	Water	04/30/18 13:35	05/04/18 08:50
40168596004	MW-6	Water	04/30/18 14:00	05/04/18 08:50



**SAMPLE ANALYTE COUNT** 

Project: 1687 OW SPORTS

Pace Project No.: 40168596

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40168596001	MW-1	WI MOD GRO	ALD	10
40168596002	MW-2	WI MOD GRO	ALD	10
40168596003	MW-5	WI MOD GRO	ALD	10
40168596004	MW-6	WI MOD GRO	ALD	10



#### **ANALYTICAL RESULTS**

Project: 1687 OW SPORTS

Pace Project No.: 40168596

Date: 05/14/2018 07:58 AM

Sample: MW-1	Lab ID:	40168596001	Collected	d: 04/30/1	8 11:20	Received: 05	5/04/18 08:50 N	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		05/09/18 14:00	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		05/09/18 14:00	0 100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		05/09/18 14:00	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		05/09/18 14:00	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		05/09/18 14:00	0 108-88-3	
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1		05/09/18 14:00	95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		05/09/18 14:00	0 108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1			0 179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		05/09/18 14:00		
Surrogates	10.02	49/L	1.0	0.02			00/00/10 11.00	00 11 0	
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		05/09/18 14:00	98-08-8	
Sample: MW-2	Lab ID:	40168596002	Collected	d: 04/30/1	8 11:50	Received: 05	5/04/18 08:50 N	Matrix: Water	
			0000				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.a.i.i.i. rraio	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	l Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		05/09/18 14:26	6 71-43-2	
Ethylbenzene	< 0.33	ug/L	1.1	0.33	1		05/09/18 14:26	6 100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		05/09/18 14:26	6 1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		05/09/18 14:26	6 91-20-3	
Toluene	< 0.49	ug/L	1.6	0.49	1		05/09/18 14:26	6 108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		05/09/18 14:26	6 95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		05/09/18 14:26		
m&p-Xylene	<0.66	ug/L	2.2	0.66	1			6 179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		05/09/18 14:26		
Surrogates	10.02	49/L	1.0	0.02			00/00/10 11.20	3 00 11 0	
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		05/09/18 14:26	6 98-08-8	
Sample: MW-5	Lab ID:	40168596003	Collected	d: 04/30/1	8 13:35	Received: 05	5/04/18 08:50 N	Matrix: Water	
Danie ve et eve	Danilla	Halia	1.00	1.00	DE	Danasas	A b d	04041-	0
Parameters	Results -	Units	LOQ -	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	I Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		05/09/18 14:5	1 71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		05/09/18 14:5	1 100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		05/09/18 14:5		
Naphthalene	<0.51	ug/L	1.7	0.51	1		05/09/18 14:5	1 91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		05/09/18 14:5	1 108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		05/09/18 14:5	1 95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		05/09/18 14:5	1 108-67-8	
•	<0.66	ug/L	2.2	0.66	1		05/00/10 14:5	1 179601-23-1	
m&p-Xylene	<0.00	ug/∟	2.2	0.00			05/09/16 14.5	1 179001-23-1	



#### **ANALYTICAL RESULTS**

Project: 1687 OW SPORTS

Pace Project No.: 40168596

Date: 05/14/2018 07:58 AM

Sample: MW-5	Lab ID:	40168596003	Collected	d: 04/30/1	8 13:35	Received: 05	/04/18 08:50 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
<b>Surrogates</b> a,a,a-Trifluorotoluene (S)	99	%	80-120		1		05/09/18 14:51	98-08-8	
Sample: MW-6	Lab ID:	40168596004	Collected	d: 04/30/1	8 14:00	Received: 05	/04/18 08:50 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		05/09/18 15:17	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		05/09/18 15:17	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		05/09/18 15:17	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		05/09/18 15:17	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		05/09/18 15:17	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		05/09/18 15:17	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		05/09/18 15:17	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		05/09/18 15:17	179601-23-1	
o-Xylene Surrogates	<0.32	ug/L	1.0	0.32	1		05/09/18 15:17	95-47-6	
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		05/09/18 15:17	98-08-8	



#### **QUALITY CONTROL DATA**

Project: 1687 OW SPORTS

Pace Project No.: 40168596

Date: 05/14/2018 07:58 AM

QC Batch: 288256 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water

Associated Lab Samples: 40168596001, 40168596002, 40168596003, 40168596004

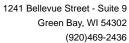
METHOD BLANK: 1686609 Matrix: Water
Associated Lab Samples: 40168596001, 40168596002, 40168596003, 40168596004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	< 0.34	1.1	05/09/18 08:50	
1,3,5-Trimethylbenzene	ug/L	< 0.33	1.1	05/09/18 08:50	
Benzene	ug/L	<0.31	1.0	05/09/18 08:50	
Ethylbenzene	ug/L	< 0.33	1.1	05/09/18 08:50	
m&p-Xylene	ug/L	<0.66	2.2	05/09/18 08:50	
Methyl-tert-butyl ether	ug/L	< 0.32	1.1	05/09/18 08:50	
Naphthalene	ug/L	<0.51	1.7	05/09/18 08:50	
o-Xylene	ug/L	< 0.32	1.0	05/09/18 08:50	
Toluene	ug/L	< 0.49	1.6	05/09/18 08:50	
a,a,a-Trifluorotoluene (S)	%	98	80-120	05/09/18 08:50	

LABORATORY CONTROL SAMPL	E & LCSD: 1686610		16	886611						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.7	21.2	104	106	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	20.1	20.5	101	103	80-120	2	20	
Benzene	ug/L	20	20.1	20.1	101	101	80-120	0	20	
Ethylbenzene	ug/L	20	20.7	20.9	103	104	80-120	1	20	
m&p-Xylene	ug/L	40	40.7	41.3	102	103	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	19.0	18.9	95	94	80-120	1	20	
Naphthalene	ug/L	20	20.2	21.2	101	106	80-120	5	20	
o-Xylene	ug/L	20	20.3	20.6	101	103	80-120	2	20	
Toluene	ug/L	20	20.3	20.4	102	102	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

MATRIX SPIKE & MATRIX SI	PIKE DUPLICA	TE: 16867	53		1686754							
			MS	MSD								
	4	0168699007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2,4-Trimethylbenzene	ug/L	1490	400	400	2030	2040	134	137	11-200	1	20	
1,3,5-Trimethylbenzene	ug/L	372	400	400	797	801	106	107	54-142	1	20	
Benzene	ug/L	7.0J	400	400	394	387	97	95	66-140	2	20	
Ethylbenzene	ug/L	1200	400	400	1700	1700	125	124	66-143	0	20	
m&p-Xylene	ug/L	3170	800	800	4190	4210	128	130	60-141	0	20	
Methyl-tert-butyl ether	ug/L	10.8J	400	400	388	392	94	95	70-129	1	20	
Naphthalene	ug/L	444	400	400	853	898	102	113	64-129	5	20	
o-Xylene	ug/L	1140	400	400	1620	1620	120	121	68-132	0	20	
Toluene	ug/L	58.4	400	400	461	447	101	97	76-130	3	20	

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





#### **QUALITY CONTROL DATA**

Project: 1687 OW SPORTS

Pace Project No.: 40168596

Parameter

a,a,a-Trifluorotoluene (S)

Date: 05/14/2018 07:58 AM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1686753 1686754

> MS MSD

40168699007 Spike Spike MS MSD MS MSD % Rec Max Units Conc. Conc. Result % Rec % Rec RPD RPD Qual Result Result Limits % 100 100 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.



#### **QUALIFIERS**

Project: 1687 OW SPORTS

Pace Project No.: 40168596

#### **DEFINITIONS**

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

Date: 05/14/2018 07:58 AM



#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 1687 OW SPORTS

Pace Project No.: 40168596

Date: 05/14/2018 07:58 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168596001	MW-1	WI MOD GRO	288256		
40168596002	MW-2	WI MOD GRO	288256		
40168596003	MW-5	WI MOD GRO	288256		
40168596004	MW-6	WI MOD GRO	288256		

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## **Sample Preservation Receipt Form**

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Pace Analytical "

Document Name: **Sample Condition Upon Receipt (SCUR)** 

Document Revised: 25Apr2018

1241 Bellevue Street, Green Bay, WI 54302

Document No.: F-GB-C-031-Rev.07 Issuing Authority: Pace Green Bay Quality Office

## Sample Condition Upon Receipt Form (SCUR)

			Project #:		
Client Name:			·	WO# : 4	10168596
Courier: CS Logistics Fed Ex Spee	dee 「UP:	_ S/V	Valtco	#1 # # 11 t as n a	
Client Pace Other:					
Tracking #: 1709827				40168596	
Custody Seal on Cooler/Box Present:  yes	√no Sea	ls intact	yes I no	The same of the sa	
Custody Seal on Samples Present:		ls intact	□ yes ☐ no		
Packing Material: Bubble Wrap Bub	<del>-</del>	Non	, , , , , , , , , , , , , , , , , , , ,		
Thermometer Used SR - NA		e: Wet	Blue Dry None	Samples on	ice, cooling process has begun
Cooler Temperature Uncorr: /Corr:			·		
Temp Blank Present: yes no	RIO	ogicai	Tissue is Frozen: [	yes  no	Person examining contents:
Temp should be above freezing to 6°C.  Biota Samples may be received at ≤ 0°C.					Initials:
Chain of Custody Present:	√ElYes □No	DN/A	1.		
Chain of Custody Filled Out:	J⊒Yes □No	□N/A	2.		
Chain of Custody Relinquished:	₽Yes □No	□N/A	3.		
Sampler Name & Signature on COC:	-ElYes □No	□N/A	4.		
Samples Arrived within Hold Time:	Yes ONC	)	5.		
- VOA Samples frozen upon receipt	□Yes □No	)	Date/Time:		
Short Hold Time Analysis (<72hr):	□Yes □No		6.		
Rush Turn Around Time Requested:	□Yes ☑No		7.		
Sufficient Volume:			8.		
For Analysis; ☐Yes ☐No MS/MSI	D: □Yes ☑No	□N/A			
Correct Containers Used:	√2Yes □No		9.		
-Pace Containers Used:	□Yes □No	□n/a			
-Pace IR Containers Used:	□Yes □No	_DN/A			
Containers Intact:	√ Yes □No		10.		
Filtered volume received for Dissolved tests	□Yes □No	_DN/A	11.		
Sample Labels match COC:	√DYes □No	□n/a	12.		
-Includes date/time/ID/Analysis Matrix:	W				
Trip Blank Present:	□Yes -□Ño	□n/a	13.		
Trip Blank Custody Seals Present	□Yes □No	□N/A			
Pace Trip Blank Lot # (if purchased):	<del></del>				
Client Notification/ Resolution:		_		necked, see attache	d form for additional comments
Person Contacted: Comments/ Resolution:		_Date/1	Time:		
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Project Manager Review:				Date:	1/1//
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May 17, 2018

DAVID LARSEN REI 4080 NORTH 20TH AVENUE Wausau, WI 54401

RE: Project: 1687 OW SPORT

Pace Project No.: 40168901

#### Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

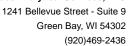
Brian Basten

brian.basten@pacelabs.com

(920)469-2436 Project Manager

Enclosures







#### **CERTIFICATIONS**

Project: 1687 OW SPORT

Pace Project No.: 40168901

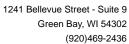
#### **Green Bay Certification IDs**

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

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

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





#### **SAMPLE SUMMARY**

Project: 1687 OW SPORT

Pace Project No.: 40168901

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168901001	MW-3R	Water	05/09/18 12:00	05/10/18 08:45
40168901002	MW-4R	Water	05/09/18 12:31	05/10/18 08:45
40168901003	MW-7	Water	05/09/18 11:43	05/10/18 08:45
40168901004	MW-8	Water	05/09/18 11:14	05/10/18 08:45





#### **SAMPLE ANALYTE COUNT**

Project: 1687 OW SPORT

Pace Project No.: 40168901

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40168901001	MW-3R	WI MOD GRO	ALD	10
40168901002	MW-4R	WI MOD GRO	ALD	10
40168901003	MW-7	WI MOD GRO	ALD	10
40168901004	MW-8	WI MOD GRO	ALD	10



Date: 05/17/2018 02:29 PM

#### **ANALYTICAL RESULTS**

Project: 1687 OW SPORT

		_			_			
Lab ID:	40168901001	Collected:	05/09/1	8 12:00	Received: 05	5/10/18 08:45	Matrix: Water	
Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: WI MOD GRO								
1130	ug/L	10.2	3.1	10		05/16/18 17:	56 71-43-2	
151	ug/L	11.0	3.3	10		05/16/18 17:	56 100-41-4	
5.3J	ug/L	10.7	3.2	10		05/16/18 17:	56 1634-04-4	
34.1	ug/L	16.8	5.1	10		05/16/18 17:	56 91-20-3	
11.8J	ug/L	16.3	4.9	10		05/16/18 17:	56 108-88-3	
97.9	ug/L	11.4	3.4	10		05/16/18 17:	56 95-63-6	
38.5	ug/L	10.9	3.3	10		05/16/18 17:	56 108-67-8	
197	ug/L	21.8	6.6	10		05/16/18 17:	56 179601-23-1	
19.9	ug/L	10.5	3.2	10		05/16/18 17:	56 95-47-6	
	Ü							
102	%	80-120		10		05/16/18 17:	56 98-08-8	
Lab ID:	40168901002	Collected:	05/09/1	8 12:31	Received: 05	5/10/18 08:45	Matrix: Water	
					_			
Results -	Units -	LOQ	LOD	DF	Prepared	Analyzed —	CAS No.	Qual
Analytical	Method: WI MC	DD GRO						
14.1	ug/L	4.1	1.2	4		05/16/18 18:	21 71-43-2	
54.2	ug/L	4.4	1.3	4		05/16/18 18:	21 100-41-4	
<1.3	ug/L	4.3	1.3	4		05/16/18 18:	21 1634-04-4	
26.8	ug/L	6.7	2.0	4		05/16/18 18:	21 91-20-3	
36.7	ug/L	6.5	2.0	4		05/16/18 18:	21 108-88-3	
297	ug/L	4.6	1.4	4		05/16/18 18:	21 95-63-6	
122	-	4.4	1.3	4		05/16/18 18:	21 108-67-8	
241	-		2.6	4		05/16/18 18:	21 179601-23-1	
	•			4				
	3		_					
102	%	80-120		4		05/16/18 18:	21 98-08-8	
Lab ID:	40168901003	Collected:	05/09/1	8 11:43	Received: 05	5/10/18 08:45	Matrix: Water	
Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: WI MOD GRO								
<0.31	ug/L	1.0	0.31	1		05/16/18 19:	38 71-43-2	
	-							
	-							
	-							
	-							
20.0	ug/L	1.1	0.33	1				
20.0	-							
13.4	ug/L	2.2	0.66	1		05/16/18 19	38 179601-23-1	
	Results  Analytical  1130 151 5.3J 34.1 11.8J 97.9 38.5 197 19.9 102  Lab ID:  Results  Analytical  14.1 54.2 <1.3 26.8 36.7 297 122 241 98.6 102  Lab ID:  Results  Analytical  4.6 <0.32 10.8 <0.49 35.4	Results	Results	Results	Results	Results	Results	Results



Project: 1687 OW SPORT

Pace Project No.: 40168901

Date: 05/17/2018 02:29 PM

Sample: MW-7	Lab ID:	40168901003	Collected	d: 05/09/1	8 11:43	Received: 05/	/10/18 08:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MO	DD GRO						
<b>Surrogates</b> a,a,a-Trifluorotoluene (S)	106	%	80-120		1		05/16/18 19:38	98-08-8	
Sample: MW-8	Lab ID:	40168901004	Collected	d: 05/09/1	8 11:14	Received: 05/	/10/18 08:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MO	DD GRO						
Benzene	2.5	ug/L	1.0	0.31	1		05/16/18 11:05	71-43-2	
Ethylbenzene	0.38J	ug/L	1.1	0.33	1		05/16/18 11:05	100-41-4	
Methyl-tert-butyl ether	0.35J	ug/L	1.1	0.32	1		05/16/18 11:05	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		05/16/18 11:05	91-20-3	
Toluene	0.73J	ug/L	1.6	0.49	1		05/16/18 11:05	108-88-3	
1,2,4-Trimethylbenzene	1.5	ug/L	1.1	0.34	1		05/16/18 11:05	95-63-6	
1,3,5-Trimethylbenzene	0.55J	ug/L	1.1	0.33	1		05/16/18 11:05	108-67-8	
m&p-Xylene	1.5J	ug/L	2.2	0.66	1		05/16/18 11:05	179601-23-1	
o-Xylene Surrogates	1.0J	ug/L	1.0	0.32	1		05/16/18 11:05		
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		05/16/18 11:05	98-08-8	



### **QUALITY CONTROL DATA**

Project: 1687 OW SPORT

Pace Project No.: 40168901

Date: 05/17/2018 02:29 PM

QC Batch: 289030 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water

Associated Lab Samples: 40168901001, 40168901002, 40168901003, 40168901004

METHOD BLANK: 1691012 Matrix: Water
Associated Lab Samples: 40168901001, 40168901002, 40168901003, 40168901004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	05/16/18 08:57	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	05/16/18 08:57	
Benzene	ug/L	<0.31	1.0	05/16/18 08:57	
Ethylbenzene	ug/L	< 0.33	1.1	05/16/18 08:57	
m&p-Xylene	ug/L	<0.66	2.2	05/16/18 08:57	
Methyl-tert-butyl ether	ug/L	< 0.32	1.1	05/16/18 08:57	
Naphthalene	ug/L	<0.51	1.7	05/16/18 08:57	
o-Xylene	ug/L	< 0.32	1.0	05/16/18 08:57	
Toluene	ug/L	< 0.49	1.6	05/16/18 08:57	
a,a,a-Trifluorotoluene (S)	%	101	80-120	05/16/18 08:57	

LABORATORY CONTROL SAMPL	E & LCSD: 1691013		16	91014						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.0	21.5	105	108	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	20.3	20.9	102	104	80-120	3	20	
Benzene	ug/L	20	20.7	20.7	104	104	80-120	0	20	
Ethylbenzene	ug/L	20	20.8	21.1	104	105	80-120	1	20	
m&p-Xylene	ug/L	40	41.2	41.7	103	104	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.0	20.5	100	102	80-120	3	20	
Naphthalene	ug/L	20	19.3	21.2	97	106	80-120	9	20	
o-Xylene	ug/L	20	20.8	21.0	104	105	80-120	1	20	
Toluene	ug/L	20	20.9	21.0	104	105	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

MATRIX SPIKE & MATRIX SP	PIKE DUPLICA	TE: 16912	34		1691235							
			MS	MSD								
	4	0168900004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	21.5	21.5	107	108	11-200	0	20	
1,3,5-Trimethylbenzene	ug/L	< 0.33	20	20	20.8	20.9	104	105	54-142	1	20	
Benzene	ug/L	< 0.31	20	20	21.1	21.3	105	106	66-140	1	20	
Ethylbenzene	ug/L	< 0.33	20	20	21.6	21.6	108	108	66-143	0	20	
m&p-Xylene	ug/L	< 0.66	40	40	42.3	42.5	106	106	60-141	0	20	
Methyl-tert-butyl ether	ug/L	< 0.32	20	20	19.9	19.8	99	99	70-129	0	20	
Naphthalene	ug/L	<0.51	20	20	19.6	19.8	98	99	64-129	1	20	
o-Xylene	ug/L	< 0.32	20	20	21.0	21.2	105	106	68-132	1	20	
Toluene	ug/L	< 0.49	20	20	21.3	21.6	107	108	76-130	1	20	

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



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



### **QUALITY CONTROL DATA**

Project: 1687 OW SPORT

Pace Project No.: 40168901

Date: 05/17/2018 02:29 PM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1691234 1691235

MSD

MS 40168900004 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result % Rec % Rec RPD RPD Qual Result Result Limits % 80-120 a,a,a-Trifluorotoluene (S) 101 101

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.



### **QUALIFIERS**

Project: 1687 OW SPORT

Pace Project No.: 40168901

#### **DEFINITIONS**

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

Date: 05/17/2018 02:29 PM

(920)469-2436



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 1687 OW SPORT

Pace Project No.: 40168901

Date: 05/17/2018 02:29 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168901001	MW-3R	WI MOD GRO	289030		
40168901002	MW-4R	WI MOD GRO	289030		
40168901003	MW-7	WI MOD GRO	289030		
40168901004	MW-8	WI MOD GRO	289030		

# **Sample Preservation Receipt Form**

Cli	ent	Naı	me:		R	JE	1.							•	Pro	ojec	t #		4	Di	10	80	10	1									Green bay, vv
	All c	ontain	ers ne	eeding	j pres	ervati	on ha	ive be	en ch				below paper		s □No	MIA		Std :	#ID of	prese	rvatio	n (if p	Η adju	ısted):	•					when pleted:		Date/ Time:	
Pace Lab#	AG1U	AG1H	AG4S	Glas 040		AG2S	BG3U	BP1U	BP2N	BP2Z	Plast DE AB	BP3C oi:	BP3N	BP3S	DG9A	DG9T	VG9U s	als H69A	VG9M	VG9D	JGFU	Jars	WPFU	SP5T o	enera ZDC	al No	VOA Vials (>6mm) *	H2SO4 pH ≤2	VaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH <2	pH after adjusted	Volume (mL)
001																		3				T	Π										2.5/5/10
002														\$ 100 100 100 100 100 100 100 100 100 100		100		13							14 TH 144	300							2.5/5/10
003																		3															2.5 / 5 / 10
004		675																3		197					9 104	of States							2.5 / 5 / 10
005				<u> </u>				<u> </u>	<u> </u>				<u> </u>			<u> </u>																	2.5 / 5 / 10
006																									3 <sup>(2)</sup> (4) (1)								2.5 / 5 / 10
007		<u> </u>					<u> </u>			<u> </u>	<u> </u>	<u> </u>		<u> </u>								<u> </u>		<u> </u>	<u> </u>								2.5 / 5 / 10
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010				茅族					1124			40.0																					2.5 / 5 / 10
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012				F												Piles.																	2.5/5/10
013	364	201.6-47.5	against to set a	I A Norway	. 1.0.10.100		100000	100000000000000000000000000000000000000							1001.0100.2000				<u> </u>					<u> </u>									2.5 / 5 / 10
014																									Ch.N								2.5 / 5 / 10
015	##SCLESS		metro di Su	a , Sin-pales	d Laverage	P. C. 15.36	1		3087682	code liquid	Associates	- Marcon 200	100000000000000000000000000000000000000	Asset ourses, in	and the second	SUR BLUV	20845-a 10-14	Jan 44, 2010.	Auto-security	1.5001/2016	alia o Mor	anetaskos sol	Seaking Control	N 24 90 N/ O	519271112	arter Saakur	Signatura (Sp. 2	98x117-27-2700	and the same		200 and 100		2.5 / 5 / 10
016						0.48																											2.5 / 5 / 10
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018														<u> </u>																			2.5 / 5 / 10
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020						برا	Ļ																										2.5 / 5 / 10
Excep	tions	to pre	eserva	ation (	check:	(VOA	<u>, P</u> oli	form,	TOC,	TOX,	TOH,	O&G	, WI C	RO, F	Pheno	lics, C	ther:			Head	space	e in V	DA Via	als (>6	6mm) :	□Yes	DHE	□N/A	*if ye	s look	in head	dspace	column
AG1U	1 lite	er am	ber gl	ass		respirate and the second		BF	10	1 lite	r plas	tic un	pres	***************************************		DG	9A	40 m	L ami	er as	corbi	;		JG	FU	4 oz	ambe	r jar u	npres				1
AG1H			-					1	2N	<b>2</b>	•	astic H					9T	40 m	L aml	er Na	Thio			w	GFU			jar un	•				
AG4S				-				I	2Z					Znact	:		9U	1	L clea			es		W	PFU	4 oz	plasti	c jar u	npres				
AG4U AG5U								ı	3U 23C				npres			1	9H	•	L clea					<u> </u>		400							•
AG2S								1	3C 3N			astic N astic H				ı	9M i9D		ıL clea ıL clea			H			PST PLC	120 r ziplo			Ia Thio	sulfat	e		
BG3U			,	-		•		1	235	E			12SO4			"	.,,,	70 11	ir cied	. viai	וט			"	GN:	ZIPIO	r nag						

ace Analytical" 1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-GB-C-031-Rev.07 Document Revised: 25Apr2018

Issuing Authority: Pace Green Bay Quality Office

# Sample Condition Upon Receipt Form (SCUR)

Client Name: RECOURSE: Courier: CS Logistics Fed Ex F Special	edee 「UPS」	*	)#:40168901     <b>      </b>
☐ Client ☐ Pace Other:		1016	
Tracking #: 1715673			90901
Custody Seal on Cooler/Box Present:  yes		t: 「yes 「no	
Custody Seal on Samples Present:  yes J		t: 「yes 「no	
Packing Material: Bubble Wrap Bu	•		
Thermometer Used SR - NA	_	Blue Dry None	Samples on ice, cooling process has begun
	P.O) Biological	Tissue is Frozen: Tyes	C no Person everyining contents:
Temp Blank Present: yes √no Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C.		110000 10 1 102011. 1 1 1 20	Person examining contents:  Date: 5 10 19  Initials: 6
Chain of Custody Present:	Yes ONO ON/	1.	
Chain of Custody Filled Out:	Yes ONO ON/	2.	·
Chain of Custody Relinquished:	ØYes □No □N/	3.	
Sampler Name & Signature on COC:	Yes ONO ON/	4.	
Samples Arrived within Hold Time:	√Yes □No	5.	
- VOA Samples frozen upon receipt	□Yes □No	Date/Time:	
Short Hold Time Analysis (<72hr):	□Yes ⊅No	6.	
Rush Turn Around Time Requested:	□Yes ☑No	7.	
Sufficient Volume:		8.	
For Analysis: ☐Yes ☐No MS/MS	SD: 🗆 Yes 🗖 No 🗆 N//	<b>\</b>	
Correct Containers Used:	√Yes □No	9.	
-Pace Containers Used:	√Yes □No □N//		
-Pace IR Containers Used:	□Yes □No ☑N//		
Containers Intact:	☐Yes ☐No	10.	
Filtered volume received for Dissolved tests	□Yes □No ☑N//	11.	
Sample Labels match COC:	□Yes ⊅No □N//	12. an dates	5/10/18
-Includes date/time/ID/Analysis Matrix:			Ob/15/16/18
Trip Blank Present:	□Yes ÆÑo □N//	13.	
Trip Blank Custody Seals Present	□Yes □No ☑N//		
Pace Trip Blank Lot # (if purchased):			
Client Notification/ Resolution: Person Contacted:	Data	If checked /Time:	, see attached form for additional comments
Comments/ Resolution:	Date	/ time.	
Project Manager Review:	4/8		Date: 5-1/-18
	$\nu$		



November 26, 2018

DAVID LARSEN REI 4080 NORTH 20TH AVENUE Wausau, WI 54401

RE: Project: 1687 O-W SPORTS

Pace Project No.: 40179786

## Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

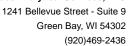
Brian Basten

brian.basten@pacelabs.com

(920)469-2436 Project Manager

Enclosures







## **CERTIFICATIONS**

Project: 1687 O-W SPORTS

Pace Project No.: 40179786

### **Green Bay Certification IDs**

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

Virginia VELAP ID: 460263

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

(920)469-2436



## **SAMPLE SUMMARY**

Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40179786001	MW-1	Water	11/14/18 10:45	11/16/18 09:00
40179786002	MW-2	Water	11/14/18 11:15	11/16/18 09:00
40179786003	MW-3R	Water	11/14/18 11:35	11/16/18 09:00
40179786004	MW-4R	Water	11/14/18 11:50	11/16/18 09:00
40179786005	MW-5	Water	11/14/18 12:15	11/16/18 09:00
40179786006	MW-7	Water	11/14/18 12:40	11/16/18 09:00
40179786007	MW-8	Water	11/14/18 13:00	11/16/18 09:00
40179786008	MW-6	Water	11/14/18 13:15	11/16/18 09:00

(920)469-2436



## **SAMPLE ANALYTE COUNT**

Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40179786001	MW-1	WI MOD GRO	ALD	10
40179786002	MW-2	WI MOD GRO	ALD	10
40179786003	MW-3R	WI MOD GRO	ALD	10
40179786004	MW-4R	WI MOD GRO	ALD	10
40179786005	MW-5	WI MOD GRO	ALD	10
40179786006	MW-7	WI MOD GRO	ALD	10
40179786007	MW-8	WI MOD GRO	ALD	10
40179786008	MW-6	WI MOD GRO	ALD	10



Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Date: 11/26/2018 12:41 PM

Sample: MW-1	Lab ID:	40179786001	Collected	d: 11/14/18	3 10:45	Received: 11	/16/18 09:00	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		11/19/18 09:3	9 71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		11/19/18 09:3	9 100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		11/19/18 09:3	9 1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		11/19/18 09:3	9 91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		11/19/18 09:3	9 108-88-3	
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1		11/19/18 09:3	9 95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		11/19/18 09:3	9 108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		11/19/18 09:3	9 179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		11/19/18 09:3	9 95-47-6	
Surrogates		-9-		****	•				
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		11/19/18 09:3	9 98-08-8	
Sample: MW-2	I ah ID:	40179786002	Collected	d: 11/14/18	3 11:15	Received: 11	/16/18 09:00	Matrix: Water	
Campic. MW-2	Lab ID.	40175700002	Oolicotot	J. 11/17/10	711.10	received. 11	710/10 03:00	viatrix. vvator	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		11/19/18 10:0	5 71-43-2	
Ethylbenzene	< 0.33	ug/L	1.1	0.33	1		11/19/18 10:0	5 100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		11/19/18 10:0	5 1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		11/19/18 10:0	5 91-20-3	
Toluene	< 0.49	ug/L	1.6	0.49	1		11/19/18 10:0	5 108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		11/19/18 10:0	5 95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		11/19/18 10:0		
m&p-Xylene	<0.66	ug/L	2.2	0.66	1			5 179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		11/19/18 10:0		
Surrogates		~g/ =		0.02	•		,,	0 00 0	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		11/19/18 10:0	5 98-08-8	
Sample: MW-3R	Lab ID:	40179786003	Collected	d: 11/14/18	3 11:35	Received: 11	/16/18 09:00	Matrix: Water	
Parameters —	Results -	Units -	LOQ -	LOD	DF ——	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	16.3	ug/L	1.0	0.31	1		11/19/18 18:3	6 71-43-2	
Ethylbenzene	3.5	ug/L	1.1	0.33	1		11/19/18 18:3	6 100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		11/19/18 18:3	6 1634-04-4	
Naphthalene	1.3J	ug/L	1.7	0.51	1		11/19/18 18:3	6 91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		11/19/18 18:3	6 108-88-3	
1,2,4-Trimethylbenzene	1.3	ug/L	1.1	0.34	1		11/19/18 18:3	6 95-63-6	
1,3,5-Trimethylbenzene	0.49J	ug/L	1.1	0.33	1		11/19/18 18:3	6 108-67-8	
- · · ·	1.4J	ug/L	2.2	0.66	1			6 179601-23-1	
m&p-Xylene									

## **REPORT OF LABORATORY ANALYSIS**

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Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Date: 11/26/2018 12:41 PM

Sample: MW-3R	Lab ID:	40179786003	Collected	d: 11/14/18	8 11:35	Received: 11	/16/18 09:00 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
<b>Surrogates</b> a,a,a-Trifluorotoluene (S)	100	%	80-120		1		11/19/18 18:36	98-08-8	
Sample: MW-4R	Lab ID:	40179786004	Collected	d: 11/14/1	8 11:50	Received: 11	/16/18 09:00 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	0.80J	ug/L	1.0	0.31	1		11/19/18 19:02	71-43-2	
Ethylbenzene	9.4	ug/L	1.1	0.33	1		11/19/18 19:02		
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		11/19/18 19:02		
Naphthalene	4.0	ug/L	1.7	0.51	1		11/19/18 19:02		
Toluene	0.91J	ug/L	1.6	0.49	1		11/19/18 19:02		
1,2,4-Trimethylbenzene	18.5	ug/L	1.1	0.34	1		11/19/18 19:02	95-63-6	
1,3,5-Trimethylbenzene	4.8	ug/L	1.1	0.33	1		11/19/18 19:02		
m&p-Xylene	15.9	ug/L	2.2	0.66	1		11/19/18 19:02	179601-23-1	
o-Xylene	3.9	ug/L	1.0	0.32	1		11/19/18 19:02	95-47-6	
Surrogates		<u> </u>							
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		11/19/18 19:02	98-08-8	
Sample: MW-5	Lab ID:	40179786005	Collected	d: 11/14/18	8 12:15	Received: 11	/16/18 09:00 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		11/19/18 10:30	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		11/19/18 10:30		
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		11/19/18 10:30		
Naphthalene	<0.51	ug/L	1.7	0.51	1		11/19/18 10:30		
Toluene	<0.49	ug/L	1.6	0.49	1		11/19/18 10:30	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		11/19/18 10:30	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		11/19/18 10:30	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		11/19/18 10:30	179601-23-1	
o-Xylene Surrogates	<0.32	ug/L	1.0	0.32	1		11/19/18 10:30	95-47-6	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		11/19/18 10:30	00 00 0	

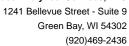


Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Date: 11/26/2018 12:41 PM

Sample: MW-7	Lab ID:	40179786006	Collected	d: 11/14/18	8 12:40	Received: 11	/16/18 09:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		11/19/18 14:46	71-43-2	
Ethylbenzene	7.3	ug/L	1.1	0.33	1		11/19/18 14:46	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		11/19/18 14:46	1634-04-4	
Naphthalene	14.4	ug/L	1.7	0.51	1		11/19/18 14:46	91-20-3	
Toluene	< 0.49	ug/L	1.6	0.49	1		11/19/18 14:46	108-88-3	
1,2,4-Trimethylbenzene	39.5	ug/L	1.1	0.34	1		11/19/18 14:46	95-63-6	
1,3,5-Trimethylbenzene	17.0	ug/L	1.1	0.33	1		11/19/18 14:46	108-67-8	
m&p-Xylene	14.9	ug/L	2.2	0.66	1		11/19/18 14:46		
o-Xylene	3.9	ug/L	1.0	0.32	1		11/19/18 14:46		
Surrogates	0.0	ug/L	1.0	0.02			11/10/10 11:10	00 11 0	
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		11/19/18 14:46	98-08-8	
Sample: MW-8	Lab ID:	40179786007	Collected	d: 11/14/1	8 13:00	Received: 11	/16/18 09·00 M	atrix: Water	
			0000.00		0 .0.00		, , , , , , , , , , , , , , , , , , , ,	ann raio	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		11/19/18 10:56	71-43-2	
Ethylbenzene	< 0.33	ug/L	1.1	0.33	1		11/19/18 10:56	100-41-4	
Methyl-tert-butyl ether	< 0.32	ug/L	1.1	0.32	1		11/19/18 10:56	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		11/19/18 10:56		
Toluene	< 0.49	ug/L	1.6	0.49	1		11/19/18 10:56	108-88-3	
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1		11/19/18 10:56	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		11/19/18 10:56	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		11/19/18 10:56		
o-Xylene	<0.32	ug/L	1.0	0.32	1		11/19/18 10:56		
Surrogates		9-		• • • • • • • • • • • • • • • • • • • •	-				
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		11/19/18 10:56	98-08-8	
Sample: MW-6	Lab ID:	40179786008	Collected	d: 11/14/1	8 13:15	Received: 11	/16/18 09:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
						Trepared	- Analyzed		Quai
WIGRO GCV	·	Method: WI MC			,		44/40/10 11	74.40.5	
Benzene	<0.31	ug/L	1.0	0.31	1		11/19/18 11:22		
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		11/19/18 11:22		
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		11/19/18 11:22		
Naphthalene	<0.51	ug/L	1.7	0.51	1		11/19/18 11:22		
Toluene	<0.49	ug/L	1.6	0.49	1		11/19/18 11:22		
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		11/19/18 11:22		
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		11/19/18 11:22	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		11/19/18 11:22	179601-23-1	





Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Date: 11/26/2018 12:41 PM

Sample: MW-6	Lab ID:	40179786008	Collecte	d: 11/14/1	8 13:15	Received: 11/16/18 09:00 Matrix: Water								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual					
WIGRO GCV	IGRO GCV Analytical Method: WI MOD GRO													
Surrogates a,a,a-Trifluorotoluene (S)	101	%	80-120		1		11/19/18 11:22	98-08-8						



### **QUALITY CONTROL DATA**

Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Date: 11/26/2018 12:41 PM

QC Batch: 306949 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water

Associated Lab Samples: 40179786001, 40179786002, 40179786003, 40179786004, 40179786005, 40179786006, 40179786007,

40179786008

METHOD BLANK: 1795333 Matrix: Water

Associated Lab Samples: 40179786001, 40179786002, 40179786003, 40179786004, 40179786005, 40179786006, 40179786007,

40179786008

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	11/19/18 07:57	
1,3,5-Trimethylbenzene	ug/L	< 0.33	1.1	11/19/18 07:57	
Benzene	ug/L	<0.31	1.0	11/19/18 07:57	
Ethylbenzene	ug/L	< 0.33	1.1	11/19/18 07:57	
m&p-Xylene	ug/L	<0.66	2.2	11/19/18 07:57	
Methyl-tert-butyl ether	ug/L	< 0.32	1.1	11/19/18 07:57	
Naphthalene	ug/L	<0.51	1.7	11/19/18 07:57	
o-Xylene	ug/L	< 0.32	1.0	11/19/18 07:57	
Toluene	ug/L	< 0.49	1.6	11/19/18 07:57	
a,a,a-Trifluorotoluene (S)	%	100	80-120	11/19/18 07:57	

LABORATORY CONTROL SAMPL	E & LCSD: 1795334		17	95335						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.2	21.6	106	108	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	20.7	21.1	103	106	80-120	2	20	
Benzene	ug/L	20	21.0	20.8	105	104	80-120	1	20	
Ethylbenzene	ug/L	20	21.2	21.4	106	107	80-120	1	20	
m&p-Xylene	ug/L	40	41.6	42.3	104	106	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	19.7	19.6	98	98	80-120	1	20	
Naphthalene	ug/L	20	19.7	20.3	99	102	80-120	3	20	
o-Xylene	ug/L	20	20.9	21.0	104	105	80-120	1	20	
Toluene	ug/L	20	21.2	21.2	106	106	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SI	PIKE DUPLICA	TE: 17955	51		1795552							
Parameter	4 Units	0179786001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	21.1	21.2	105	106	51-160	1	20	
1,3,5-Trimethylbenzene	ug/L	< 0.33	20	20	20.4	20.6	102	103	56-146	1	20	
Benzene	ug/L	< 0.31	20	20	21.1	21.2	105	106	71-137	1	20	
Ethylbenzene	ug/L	< 0.33	20	20	21.8	21.9	109	110	71-141	1	20	
m&p-Xylene	ug/L	< 0.66	40	40	42.6	42.8	106	107	66-141	1	20	
Methyl-tert-butyl ether	ug/L	< 0.32	20	20	20.4	20.3	102	101	80-120	1	20	
Naphthalene	ug/L	<0.51	20	20	20.4	20.6	102	103	67-138	1	20	
o-Xylene	ug/L	< 0.32	20	20	21.1	21.2	105	106	75-133	1	20	

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





## **QUALITY CONTROL DATA**

Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Date: 11/26/2018 12:41 PM

MATRIX SPIKE & MATRIX SF	PIKE DUPLIC	ATE: 17955	51		1795552							
	2	10179786001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Toluene	ug/L	<0.49	20	20	21.6	21.8	108	109	76-134	1	20	
a,a,a-Trifluorotoluene (S)	%						103	104	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.



### **QUALIFIERS**

Project: 1687 O-W SPORTS

Pace Project No.: 40179786

#### **DEFINITIONS**

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

Date: 11/26/2018 12:41 PM

(920)469-2436



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 1687 O-W SPORTS

Pace Project No.: 40179786

Date: 11/26/2018 12:41 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40179786001	MW-1	WI MOD GRO	306949		
40179786002	MW-2	WI MOD GRO	306949		
40179786003	MW-3R	WI MOD GRO	306949		
40179786004	MW-4R	WI MOD GRO	306949		
40179786005	MW-5	WI MOD GRO	306949		
40179786006	MW-7	WI MOD GRO	306949		
40179786007	MW-8	WI MOD GRO	306949		
40179786008	MW-6	WI MOD GRO	306949		

(P)	lease Print Clearly)		1	-							IIDWEST F			Page 1	
Company Name:	The second secon	7	1						R	MY. 612	607-1700	WI: 920-469-2436	1 A		13 of 15
Branch/Location:	RET Engineering	<u> 44</u>	1 /	P		nalyti					XI		401	79-181	13
Project Contact:		Company of the Compan	1 /		WW	w.pacelab	s.com			1/		Quote #:			P. a.e.
	Dave Luser	- t - /J	-		LIAI	M A	FC	I P	$r \cap r$	X.	1	Mail To Contact:	Pare 1	1060	
Phone:	715-675-20	087	l —	<u>U</u>	<u> IMI</u>	*Prese	rvation Cod	OVI es			<del>/</del> /	Mail To Company:	0000	~	T
Project Number:	1687	and the second s	A=Noi		L C=H2S	04 D=HN	O3 E=DI\	Water F=	:Methanol Other	G=NaOI	H /	man to company.	KET E	your a	410
Project Name:	OW Spirts			dium Bisulfat	e Solution	1=500	ium Thiosulf	ate J=(	Julei			Mail To Address:	Dlusen	win notions . enlegheer	19 com
Project State:	WI		FILTER (YES/	NO)	A\M V							4	<u> </u>	***************************************	
Sampled By (Print):	Rya Rosch		PRESER'		Pick Letter	3				$\preceq$	/	Invoice To Contact:	SAA		
Sampled By (Sign):	1 7					7						Invoice To Company:			
PO #:	17	Regulatory Program:	WON	r	Requested	·Nopothalue	en e		-	and the second	A COMPANY TO THE COMP	Invoice To Address:	Arman		
Data Package Or	ptions MS/MSD		trix Codes		8	J.			and the same of th		September 1		11		
(billable)  EPA Leve	On your sample	A = Air B = Biota C = Charcoal	W = Water DW = Drinkin GW = Ground		8 -					The Control of the Co	THE PROPERTY OF THE PROPERTY O	Invoice To Phone:	715-1	75-5784	
☐ EPA Leve	NOT needed on	O = Oil S = Soil	SW = Surface WW = Waste	e Water	Analyses	20	2000				Observed to	CLIENT	- British Company	OMMENTS	Profile #
		SI = Sludge COL	WP = Wipe	MATRIX	₹   ,	DYO			-		-	COMMENTS		lse Only)	
PACE LAB#	CLIENT FIELD ID	DATE	TIME												
	V-1	11/14/14	10:45	av		$\subseteq$									
00.5 WI	v-2		11:15	Ì											
The second secon	v -3R		11:35			$\times$									
	~- 4R		11:50			$\times$								desperatores error (vind - Critica error ph. e. 10 Hanna error (vind - Critica error (vi	
	N-5		12:15		2	$\times$									
	v - 7		12:40		7	$\times$									
	w - 8		1:00		3	$\times$									
	V - b	1	1175	レ	-	$\times$									
1 July 1															
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# **Sample Preservation Receipt Form**

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	All co	ontain	ers ne	eeding	pres	ervatio	on ha	ve be	en che		and n				□No	g <b>Ñ</b> /A		Std#	‡ID of	prese	rvatio	n (if pl	-l adju	sted):						when leted:		Date/ Time:	
				Glas	S	AND RESIDENCE ADMINISTRA			Constant district		Plast				Lab Std #ID of preservation (if pH adjusted):  * EB  Vials  Jars  General						Vials (>6mm) *	52	VaOH+Zn Act pH ≥9	212	52	jnsted	Volume						
Pace Lab#	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	ВРЗС	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	N G	VOA Vials	H2SO4 pH <2	NaOH+Zn	NaOH pH ≥12	HNO3 pH	pH after adjusted	(mL)
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AG1U AG1H	督				וכו				P1U P2N	1	er pla: mL pl		-			1	G9A G9T	1	nL am nL am					1 .	GFU	1		ijar u		•			
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AG4U	18							В	P3U	250	mL pl	astic	unpre	s		V	G9H	40 r	nL cle	ar vial	HCL												
AG5U	100	mL a	mber	glass	unpr	es		В	РЗС	2	mL pl						G9M	•	nL cle			Н			P5T	1			Na Th	iosulfa	ite		
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Pace Analytical<sup>™</sup> 1241 Bellevue Street, Green Bay, WI 54302

## **Document Name: Sample Condition Upon Receipt (SCUR)**

Document No.:

Document Revised: 25Apr2018

F-GB-C-031-Rev.07

Issuing Authority: Pace Green Bay Quality Office

# Sample Condition Upon Receipt Form (SCUR)

Client Name: REI		Project #: WO:	‡:4 <b>01</b> 79786
Courier: CS Logistics Fed Ex Speed	dee Fups FW	<b>∠</b>	
☐ Client ☐ Pace Other:			
Tracking #: \89 \x\a		40179	786
Custody Seal on Cooler/Box Present:  yes	no Seals intact:	T yes T no	
Custody Seal on Samples Present: Fyes	no Seals intact:	l yes l no	
Packing Material: Bubble Wrap Bub	ble Bags None	e Cother	
Thermometer Used SR - NH	Type of Ice: Wet	Blue Dry None — Sam	oles on ice, cooling process has begun
Cooler Temperature Uncorr: /Corr:	·	in a lean Martine Statement .	
Temp Blank Present: yes no	Biological	lissue is Frozen: ☐ yes ☐ r	Person examining contents:
Temp should be above freezing to 6°C.  Biota Samples may be received at ≤ 0°C.		T	Initials:
Chain of Custody Present:	Yes No N/A		
Chain of Custody Filled Out:	Yes No N/A	2.	
Chain of Custody Relinquished:	Yes No N/A	3.	
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes □No	5.	
- VOA Samples frozen upon receipt	□Yes □No	Date/Time:	
Short Hold Time Analysis (<72hr):	□Yes ØNo	6.	
Rush Turn Around Time Requested:	□Yes ĐNo	7.	
Sufficient Volume:		8.	
For Analysis: ☑Yes ☐No MS/MSI	D: DYes No DN/A		
Correct Containers Used:	Yes ONo	9.	
-Pace Containers Used:	Yes ONO ON/A		
-Pace IR Containers Used:	□Yes □No □N/A		•
Containers Intact:	Yes 🗆 No	10.	
Filtered volume received for Dissolved tests	□Yes □No ☑N/A	11.	
Sample Labels match COC:	Yes ONO ON/A	12.	
-Includes date/time/ID/Analysis Matrix:	$\sim$		
Trip Blank Present:	□Yes ØNo □N/A	13.	
Trip Blank Custody Seals Present	□Yes □No ☑N/A		
Pace Trip Blank Lot # (if purchased):			
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:	Date/		attached form for additional comments
Project Manager Review:		Chu	Pate: Whele