

October 25, 2019



CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Wisconsin Department of Natural Resources

Attn: Ms. Carrie Stoltz
107 Sutliff Avenue
Rhineland, WI 54501



Subject:

Update Report
Moose Junction Lounge
13195 S State Highway 35
Dairyland, WI
BRRTS #03-16-000301
PECFA #54830-9999-97

Dear Ms. Stoltz:

Enclosed is the Update Report for the above referenced site. This report is specific to the completion of two (2) additional rounds of post-injection groundwater sampling. Based on the post injection groundwater analytical data trends, REI is recommending that this investigation be directed to the WDNR's case closure process.

Please call me with questions or comments toll free at 877-734-7745 or contact me electronically at dlarsen@reiengineering.com.

Sincerely,
REI Engineering, Inc.

David N. Larsen, P.G.
Senior Hydrogeologist/Project Manager

Enclosure

CC: Mr. Trent Sprague, 13195 S State Highway 35, Dairyland, WI 54830



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REI

**CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING**

UPDATE REPORT

**MOOSE JUNCTION LOUNGE
13195 S State Highway 35
DAIRYLAND, WISCONSIN**

**WDNR BRRTS #03-16-000301
PECFA #54830-9999-97
REI PROJECT #6510**



**COMPREHENSIVE
SERVICES WITH
PRACTICAL
SOLUTIONS**



UPDATE REPORT

**MOOSE JUNCTION LOUNGE
13195 S STATE RD 35
DAIRYLAND, WI 54830**

**BRRTS #03-16-000301
PECFA #54830-9999-97**

REI #6510



PREPARED FOR:

**Mr. Trent Sprague
13195 S State Highway 35
Dairyland, WI 54830**

OCTOBER 2019

UPDATE REPORT

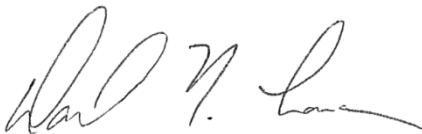
**MOOSE JUNCTION LOUNGE
13195 S STATE RD 35
DAIRYLAND, WI 54830**

**BRRTS #03-16-000301
PECFA #54830-9999-97**

REI #6510

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 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

10-25-19

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

10-25-19

Date

TABLE OF CONTENTS

- 1.0 Introduction
- 2.0 Summary of Work
 - 2.1 Groundwater Monitoring and Analytical Results
- 3.0 Conclusions and Recommendations

LIST OF TABLES

- Table 1 Depth to Water and Water Level Elevations
- Tables 2a-u Summary of Groundwater Analytical Results

LIST OF FIGURES

- Figure 1 Site Vicinity Map
- Figure 2 Detailed Site Map

LIST OF APPENDICES

- Appendix A Laboratory Analytical Reports - Groundwater

UPDATE REPORT

MOOSE JUNCTION LOUNGE 13195 S STATE RD 35 DAIRYLAND, WI 54830

**BRRTS #03-16-000301
PECFA #54830-9999-97
REI #6510**

1.0 INTRODUCTION

This report presents the results of the continued groundwater monitoring performed at the Moose Junction Lounge site. The Moose Junction Lounge site is located in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 18, Township 44 North, Range 14 West, in the Town of Dairyland, Douglas County, Wisconsin (Figure 1). The property is located in a rural area and many of the adjacent properties are acres in size. The site layout as well as all soil and groundwater sampling points are presented on Figure 2. The site address is 13195 S State Road 35, Dairyland, Wisconsin 54830. Wisconsin Transverse Mercator (WTM) coordinates are 353997, 648291.

2.0 SUMMARY OF WORK

2.1 Groundwater Monitoring and Analytical Results

REI personnel were onsite on May 14 and September 16, 2019 to complete the post injection and soil excavation groundwater sampling. Groundwater monitoring wells MW2, MW4 and MW8 all reported the presence of petroleum compounds above NR 140.10 Groundwater Quality Enforcement Standard (ES) limits prior to the completion of the carbon injection scope of services.

Depth to water and water level elevations are reported in Table 2. Groundwater samples were submitted to Pace Analytical, Green Bay, Wisconsin for analysis of PVOC and naphthalene compounds. Groundwater analytical results are summarized in Tables 2a-u. The complete laboratory analytical reports are included as Appendix A.

Comparison of pre and post injection samples reveals a significant reduction in contaminant concentrations at MW2, MW4 and MW8. MW2, MW4 and MW8 had a history of petroleum related groundwater contamination through May 2018. Carbon injection was completed in August 2018 and REI groundwater sampling data from the two (2) sampling events in 2019 were either reducing or non-detect for each post injection sample event.

3.0 CONCLUSIONS AND RECOMMENDATIONS

The degree and extent of the groundwater contaminant plume appears to be adequately defined. The subsurface injection of the activated carbon should result in a reduction in the dissolved phase petroleum concentrations in the groundwater. No carbon was injected in the north east intersection corner due to access limitations and safety concerns. Rather the carbon was placed directly into an open trench dug into the shallow water table. Following the placement of the carbon, the trench was backfilled.

Groundwater is shown to be generally flowing from the northwest to the southeast. For the purposes of this investigation, the primary focus will be the reduction in groundwater contaminant concentrations at MW2 and MW8. Residual soil contamination likely remains in place beneath State Highway 35 and will continue to contribute to the dissolved phase groundwater contaminant plume for the foreseeable future. If the carbon based injectate was properly installed, there should be a noticeable reduction in the groundwater contaminant concentrations observed in monitoring wells MW2 and MW8 followed by MW4.

Groundwater analytical results are following the predicted trend and REI is recommending that this investigation be directed to the WDNR case closure review process.

Table 1
Moose Junction Lounge
Depth to Water and Water Level Elevations
Dairyland, WI

Depth to Water (feet) below Reference Elevation												
Date	MW1	MW2	MW3	MW4	MW5	MW5R	MW6	MW7	MW8	MW9	MW10	ROW
5/27/1993	3.72	5.67	2.84	2.75								
8/26/1993	5.07	7.01	3.86	4.12								
11/18/1993	4.46	6.61	3.16	3.31								
3/1/1994	4.86	7.76	3.50	3.75								
7/22/1994	4.32	4.82	3.22	3.16								
10/27/1994	4.74	6.16	3.38	3.23								
4/18/2007	4.20	4.50	4.50	3.55	4.10							
8/15/2007	7.93	8.31	9.52	6.70	6.75							
10/3/2007	4.64	5.75	3.82	3.51	4.52							
7/13/2010	5.51	6.08	4.05	4.81		4.04						
11/23/2010	5.57	6.15	3.54	3.97		4.34						
3/4/2011	6.11	6.63		4.16		4.67						
7/22/2011	5.41	5.86		4.23		4.15						
10/27/2011	6.47	7.30		4.69		5.29						
1/26/2012	7.41	7.99	5.10	5.17		5.67						
4/27/2012	5.20	5.83	3.33	3.99		4.35						
10/5/2012	7.82	8.25	5.92	5.82		6.28						
11/14/2013	5.72	6.19	3.75	4.19	4.43	3.75						
6/28/2016		5.70	0.82	3.40	Abandoned	3.50	4.67	2.93	5.92			2.28
10/3/2016	2.58	6.15	1.06	3.75		3.72	4.90	3.18	5.30			2.79
7/7/2017	2.41	6.19	0.97	3.83		3.35	4.87	3.12	5.18	0.91		
11/27/2017	2.39	5.98	0.91	3.16		3.41	4.67	2.78	4.63	0.27		2.17
2/13/2018	4.06	7.49	2.08	4.23		4.37	6.58	3.57	5.53	1.27		
5/16/2018	2.45	5.74	0.91	3.67		3.67	4.77	3.00	4.85	0.77		
8/13/2018	3.52	6.95	1.99	5.02		4.50	5.86	4.12	6.01	1.21		
11/27/2018	0.90	6.15	2.70	3.47		3.42	4.88	2.94	4.19	0.70	4.67	2.40
5/14/2019	2.15	5.41	0.76	3.43		3.35	4.24	2.87	4.25	0.50	4.17	Abandoned
9/16/2019	2.36	5.64	1.14	3.57		3.30	4.26	3.05	4.57	0.89	4.50	
Measuring Point Elevations (top of well casing)												
Initial Survey	1233.23	1231.18	1228.93	1226.11								
Tetra-Tech Elevation Data (4/18/07)	1235.72	1234.43	1235.96	1229.86	1230.59							
Carlson Elevation Data (7/13/2010)	101.98	100.56	100.41	96.82								
REI (6/28/16)	1,229.67	1,231.31	1,228.61	1,226.09		1,226.74	1,230.59	1,225.62	1,227.87			
REI (7/7/17)	1,229.74	1,231.34	1,228.63	1,226.19		1,226.77	1,230.64	1,225.66	1,227.92	1,223.75		
REI (9/25/18)											1,230.16	
Ground Surface Elevation												
Initial Survey	1231.20	1229.20	1226.90	1224.10								
REI (6/28/16)	1230.31	1229.35	1228.99	1223.95		1227.01	1228.38	1223.58	1225.14			
REI (7/7/17)										1224.05		
REI (9/25/18)											1,226.91	
Depth to Water (feet) below Top of Casing												
Average	5.35	6.44	3.85	4.11	4.95	4.52	4.79	3.06	5.61			2.54
Maximum	7.93	8.31	9.52	6.70	6.75	6.28	4.90	3.18	5.92			2.79
Minimum	2.58	4.50	0.82	2.75	4.10	3.50	4.67	2.93	5.30			2.28
Range	5.35	3.81	8.70	3.95	2.65	2.78	0.23	0.25	0.62			0.51
Water Level Elevation (feet MSL)												
Date	MW1	MW2	MW3	MW4	MW5	MW5R	MW6	MW7	MW8	MW9		ROW Potable
5/27/1993	1,227.72	1,225.10	1,224.88	1,221.30								
8/26/1993	1,228.16	1,224.17	1,225.07	1,221.99								
11/18/1993	1,228.77	1,224.57	1,225.77	1,222.80								
3/1/1994	1,228.37	1,223.42	1,225.43	1,222.36								
7/22/1994	1,228.91	1,226.36	1,225.71	1,222.95								
10/27/1994	1,228.49	1,225.02	1,225.55	1,222.88								
4/18/2007	1,231.52	1,229.93	1,231.46	1,226.31								
8/15/2007	1,227.79	1,226.12	1,226.44	1,223.16	1,226.49	1,223.84						
10/3/2007	1,231.08	1,228.68	1,232.14	1,226.35	1,226.07							
7/13/2010	96.47	94.46	96.36	92.01			92.75					
11/23/2010	96.41	94.41	96.87	92.85			92.45					
3/4/2011	96.87	93.83		92.68			92.12					
7/22/2011	96.57	94.70		92.59			92.64					
10/27/2011	96.51	93.26		92.13			91.50					
1/26/2012	94.57	92.57	95.31	91.68			91.12					
4/27/2012	96.78	94.73	97.08	92.83			92.44					
10/5/2012	94.16	92.31	94.49	91.00			90.51					
11/14/2013												
6/28/2016		1,225.61	1,227.79	1,222.69			1,223.24	1,225.92	1,222.69	1,221.95		
10/3/2016	1,227.09	1,225.16	1,227.55	1,222.34			1,223.02	1,225.69	1,222.44	1,222.57		
7/7/2017	1,227.33	1,225.15	1,227.66	1,222.36			1,223.42	1,225.77	1,222.54	1,222.74	1,222.84	
11/27/2017	1,227.35	1,225.36	1,227.72	1,223.03			1,223.36	1,225.87	1,222.88	1,223.29	1,223.48	
2/13/2018	1,225.68	1,223.85	1,226.55	1,221.96			1,222.40	1,224.06	1,222.09	1,222.39	1,222.46	
5/16/2018	1,227.29	1,225.60	1,227.72	1,222.52			1,223.10	1,225.87	1,222.66	1,223.07	1,222.96	
8/13/2018	1,226.22	1,224.39	1,226.94	1,221.17			1,222.27	1,224.78	1,221.94	1,221.91	1,222.54	
11/27/2018	1,228.84	1,225.19	1,225.93	1,222.72			1,223.35	1,225.76	1,222.72	1,223.73	1,223.05	1,225.49
5/14/2019	1,227.59	1,225.93	1,227.87	1,222.76			1,223.42	1,226.40	1,222.79	1,223.67	1,223.25	1,225.99
9/16/2019	1,227.38	1,225.70	1,227.49	1,222.62			1,223.47	1,226.38	1,222.61	1,223.35	1,222.86	1,225.66

Notes:
7-13-2010: Benchmark is the cement cover of site septic system
6-28-16: WISDOT Benchmark #428
6-28-16: MW1 and MW3 converted to flush mount wells

Table 2a
Summary of Groundwater Analytical Results
DOT Contractor Samples (Aqua-Tech)
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

	Sampled By -->			Aqua-Tech		
	ES	PAL	Units	MJW-1	MJW-2	MJW-3
VOC Parameters			Date	11/8/1990	11/8/1990	11/8/1990
		Depth (feet)		6.6	8.0	4.4
Benzene	5	0.5	µg/l	19,900	15,100	ND
Ethylbenzene	700	140	µg/l	29,100	1,375	ND
Toluene	800	160	µg/l	82,900	15,100	ND
Xylenes (mixed isomers)	2,000	400	µg/l	199,000	7,490	1.5

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

Table 2b
Summary of Groundwater Analytical Results
DOT Contractor Samples (RMT)
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

	Sampled By -->			RMT					
	Sample Location		Date	B-1	B-2A	B-3	B-4	B-5	B-6
Parameters	ES	PAL	Units	10/5/1992	10/5/1992	10/5/1992	10/5/1992	10/5/1992	10/5/1992
Lead	15	1.5	µg/l	130	NS	1,900	< 20	26	200
GRO			mg/l	< 100	3,900	460,000	4,100	100	4,200
Benzene	5	0.5	µg/l	< 1.0	7,400	42,000	22,000	<i>2.9</i>	4,800
Toluene	800	160	µg/l	< 1.0	18,000	48,000	30,000	8.6	3,100
Ethylbenzene	700	140	µg/l	< 1.0	2,400	6,500	5,900	4	1,300
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	11,300	29,000	23,000	19.7	<i>770</i>
1,2-Dichloroethane	5	0.5	µg/l	< 1.0	< 1.0	180	120	< 1.0	57

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

Table 2c
Summary of Groundwater Analytical Results
Geoprobe Borings
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Sampled By -->				REI				
Sample Location -->				GP12	GP14	GP15	GP16	GP17
Date -->				6/13/2017	11/28/2017	11/28/2017	11/28/2017	11/28/2017
VOC Parameters	ES	PAL	Units					
Benzene	5	0.5	µg/l	1,380	3,720	2.2	< 0.40	22.3
Ethylbenzene	700	140	µg/l	1,860	2,980	11.9	< 0.39	53.7
Toluene	800	160	µg/l	109	11,200	16.1	0.44*	9.2
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 19.4	< 97	< 0.48	< 0.48	< 1.2
Xylenes (mixed isomers)	2,000	400	µg/l	2,239	15,680	69.5	1.2*	252.9
Trimethylbenzenes (mixed isomers)	480	96	µg/l	93.5	3,191	36.3	0.68*	<i>208.7</i>
Naphthalene	100	10	µg/l	254	495	2.5	< 0.42	<i>18.9</i>

Sampled By -->				REI				
Sample Location -->				GP18	GP19	GP20	GP21	GP22
Date -->				11/28/2017	11/28/2017	11/28/2017	11/28/2017	11/28/2017
VOC Parameters	ES	PAL	Units					
Benzene	5	0.5	µg/l	44.5	7.2	< 0.40	1,180	98.30
Ethylbenzene	700	140	µg/l	0.45*	17.1	< 0.39	3,270	<i>302</i>
Toluene	800	160	µg/l	< 0.39	5.3	< 0.39	1,360	65.7
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	1.2	< 0.48	< 48.5	< 4.8
Xylenes (mixed isomers)	2,000	400	µg/l	2.0	63.7	< 0.80	15,070	<i>1,200.4</i>
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1.9	34.7	< 0.42	4,505	494.2
Naphthalene	100	10	µg/l	< 0.42	1.4	< 0.42	692	<i>74.9</i>

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

Table 2d
Summary of Groundwater Analytical Results
MW1
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			Earth Burners												
	ES	PAL	Units	05/27/93	06/15/93	08/26/93	11/18/93	03/01/94	07/22/94	10/27/94	2/9/1995	5/19/1995	8/7/1995	12/15/1995	3/11/1996	11/17/2003
Lead	15	1.5	µg/l	406		< 50	8	2	NA	70	42	NS	NA	11.3	NA	< 50
Lead (Dissolved)	15	1.5	µg/l	NA		NA	NA	NA	< 50	NA	NA	NA	NA	NA	NA	NA
GRO			mg/l	6,160		3,590	1,430	1,480	140	280	446	NS	201	ND	190	< 100
VOC Parameters																
Benzene	5	0.5	µg/l	41	Soil	228	48	212	1.7	120	52	NS	8.41	14	29	7.6
Ethylbenzene	700	140	µg/l	22	Excavation	47	22	25	< 5.0	< 5.0	6	NS	< 5.0	< 5.0	3.3	< 0.18
Toluene	800	160	µg/l	210	Completed	54	7	14	< 5.0	< 5.0	< 5.0	NS	< 5.0	< 5.0	< 1.0	< 0.54
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA		99	< 5.0	23	1.7	< 5.0	< 5.0	NS	< 5.0	8.0	1.4	< 0.69
Xylenes (mixed isomers)	2,000	400	µg/l	820		53	61	154	1.9	11	160	NS	< 5.0	< 5.0	18.1	< 2.6
Trimethylbenzenes (mixed isomers)	480	96	µg/l	286		114	68	63	< 5.0	7.3	24	NS	< 5.0	< 5.0	12.9	< 1.05
Naphthalene	100	10	µg/l	< 1		NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
Dibromochloromethane	60	6	µg/l	< 1		NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
n-Propylbenzene			µg/l	6		NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
Isopropylbenzene			µg/l	3		NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
n-Butylbenzene			µg/l	6		NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
tert-Butylbenzene			µg/l	< 1		NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA

Detected Parameters	Sampled By -->			Northern	Tetra-Tech				Carlson McCain					
	ES	PAL	Units	4/14/2006	4/18/2007	8/15/2007	10/3/2007	7/13/2010	Oct/Nov 2010	11/23/2010	3/4/2011	7/22/2011	10/27/2011	
VOC Parameters														
Benzene	5	0.5	µg/l	< 0.12	NS	< 0.25	< 0.25	< 0.31		< 0.31	0.14*	< 0.31	< 0.31	
Ethylbenzene	700	140	µg/l	< 0.3	NS	< 0.22	< 0.22	< 0.50	ORC	< 0.50	0.14*	< 0.50	< 0.50	
Toluene	800	160	µg/l	< 0.13	NS	< 0.11	0.46	< 0.37	Injection	< 0.37	0.13*	< 0.37	< 0.37	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.11	NS	< 0.23	< 0.23	< 0.30		< 0.30	0.30*	< 0.30	< 0.30	
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.7	NS	< 0.39	< 0.39	< 1.39		< 1.39	0.43*	< 1.39	< 1.39	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.58	NS	< 0.25	< 0.25	< 0.44		< 0.44	0.14*	< 0.44	< 0.44	
Naphthalene	100	10	µg/l	NA	NS	< 0.50	< 0.50	< 2.00		< 2.00	0.48*	< 2.00	< 2.00	

Notes:
ES = NR140.10 Enforcement Standards
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ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded	BOLD
Preventive Action Limit exceeded	<i>Italics</i>

Table 2e
Summary of Groundwater Analytical Results
MW1
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI						
	ES	PAL	Units	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	NA	NA	4.8*	NA
VOC Parameters										
Benzene	5	0.5	µg/l	< 0.34	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	140	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Toluene	800	160	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.37	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.71	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Naphthalene	100	10	µg/l	< 0.37	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Natural Attenuation Parameters										
Temperature			°F	NA	NA	NA	60.99	64.89	47.02	39.89
Conductivity			uS/cm	NA	NA	NA	1,408	167	830	1,000
Dissolved Oxygen			mg/l	NA	NA	NA	1.07	2.58	2.42	1.42
pH				NA	NA	NA	7.03	6.01	5.92	6.75
Oxidation-Reduction Potential			mV	NA	NA	NA	-76.4	30.9	158	-82.2

Detected Parameters	Sampled By -->			REI							
	ES	PAL	Units	5/16/2018	8/7 to 8/11	8/13/2018	11/27/2018	5/14/2019	9/16/2019		
Dissolved Lead	15	1.5	µg/l	NA	Completed Carbon Injection Scope	NA	NA	NA	NA		
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.31		< 0.31	< 0.31	< 0.25	< 0.25		
Ethylbenzene	700	140	µg/l	< 0.33		< 0.33	< 0.33	< 0.22	< 0.22		
Toluene	800	160	µg/l	< 0.49		< 0.49	< 0.49	< 0.17	< 0.17		
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.32		< 0.32	< 0.32	< 1.2	< 1.2		
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.66		< 0.66	< 0.66	< 0.47	< 0.47		
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.34		< 0.34	< 0.34	< 0.87	< 0.87		
Naphthalene	100	10	µg/l	< 0.51		< 0.51	< 0.51	< 1.2	< 1.2		
Natural Attenuation Parameters											
Temperature			°F	47.48			63.7	44.40	47.7	64.1	
Conductivity			uS/cm	1,354		481	204.6	320.4	130.6		
Dissolved Oxygen			mg/l	0.70		0.57	6.78	5.34	2.44		
pH				7.62		7.47	7.80	6.55	6.4		
Oxidation-Reduction Potential			mV	52.7		27.6	156.4	226.1	199.5		

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

Table 2f
Summary of Groundwater Analytical Results
MW2
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			Earth Burners											
	ES	PAL	Units	05/27/93	06/15/93	08/26/93	11/18/93	03/01/94	07/22/94	10/27/94	2/9/1995	5/19/1995	8/7/1995	12/15/1995	3/11/1996
Lead	15	1.5	µg/l	131		58	770	27		60	47	132	NA	ND	NA
Lead (Dissolved)	15	1.5	µg/l	NA		NA	NA	NA	< 50	NA	NA	NA	NA	NA	NA
GRO			mg/l	132,000		36,800	140,000	222,000	140,000	120,000	131,000	101,000	125,000	150,000	46,000
VOC Parameters															
Benzene	5	0.5	µg/l	19,000	Soil	2,790	10,500	55,200	120	34,000	28,200	32,100	33,400	41,000	16,000
Ethylbenzene	700	140	µg/l	1,600	Excavation	551	2,130	4,000	1,600	2,100	2,000	1,860	1,950	2,500	1,300
Toluene	800	160	µg/l	29,000	Completed	2,770	10,100	51,200	4,000	33,000	26,600	29,000	34,300	43,000	11,000
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA		< 5.0	55	570	240	280	296	< 5	< 5.0	1,600	< 100
Xylenes (mixed isomers)	2,000	400	µg/l	16,500		2,650	9,090	29,800	3,300	13,000	8,700	10,900	12,100	14,000	6,200
Trimethylbenzenes (mixed isomers)	480	96	µg/l	860		911	2,670	8,020	1,840	2,670	3,019	2,092	1,820	2,780	2,540
Naphthalene	100	10	µg/l	< 1.0		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	60	6	µg/l	130		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	1,300		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene			µg/l	53		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene			µg/l	53		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene			µg/l	270		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Detected Parameters	Sampled By -->			Northern	Tetra-Tech			
	ES	PAL	Units	11/17/2003	4/14/2006	4/18/2007	8/15/2007	10/3/2007
Lead	15	1.5	µg/l	< 50	< 0.7	NA	NA	NA
Lead (Dissolved)			µg/l	NA	NA	NA	NA	NA
GRO			mg/l	21000	NA	NA	NA	NA
VOC Parameters								
Benzene	5	0.5	µg/l	6,400	4,900	77	8,600	170
Ethylbenzene	700	140	µg/l	840	720	23	1,600	41
Toluene	800	160	µg/l	380	770	130	1,700	450
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 69	< 5.5	< 0.23	< 46	< 2.3
Xylenes (mixed isomers)	2,000	400	µg/l	5,330	3,300	260	14,000	630
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1,630	1,430	112	2,730	181
Naphthalene	100	10	µg/l	NA	NA	12	550	20

Detected Parameters	Sampled By -->			Carlson McCain								
	ES	PAL	Units	7/13/2010	Oct/Nov 2010	11/23/2010	3/4/2011	7/22/2011	10/27/2011	1/26/2012	4/27/2012	10/5/2012
VOC Parameters												
Benzene	5	0.5	µg/l	4,060		4,100	6,000	7,310	6,930	8,350	2,930	5,600
Ethylbenzene	700	140	µg/l	866	ORC	622	750	1,110	1,980	2,500	1,670	1,900
Toluene	800	160	µg/l	1,410	Injection	4,860	7,700	9,780	13,800	19,900	4,270	13,000
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	50.1		68.4*	42*	< 30	< 30	< 30	< 60	280
Xylenes (mixed isomers)	2,000	400	µg/l	7,240		6,990	870	11,090	12,330	16,530	6,860	12,400
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1,785		2,229	1,680	1,813	1,908	2,512	1,377	1,920
Naphthalene	100	10	µg/l	NA		443	290	352	432	586	578	580

Notes:

ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*

Table 2g
Summary of Groundwater Analytical Results
MW2
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI								
	ES	PAL	Units	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018	5/16/2018	
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	NA	NA	13.7*	NA	NA	
VOC Parameters												
Benzene	5	0.5	µg/l	3,520	2,680	4,120	2,770	3,240	2,770	2,570	2,850	
Ethylbenzene	700	140	µg/l	1,720	1,100	2,100	1,550	2,050	1,920	1,150	2,590	
Toluene	800	160	µg/l	7,080	1,890	4,700	1,060	4,790	1,830	1,710	4,240	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 18.6	< 9.7	< 24.2	< 9.7	< 9.7	< 12.1	< 24.2	< 16.0	
Xylenes (mixed isomers)	2,000	400	µg/l	12,130	7,770	12,460	7,810	10,390	9,330	7,980	11,880	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	8,530	1,376	1,901	1,398	1,417	1,645	3,040	2,007	
Naphthalene	100	10	µg/l	462	312	455	388	477	422	336	515	
Natural Attenuation Parameters												
Temperature			°F	NA	NA	NA	56.69	54.49	47.41	41.98	42.85	
Conductivity			uS/cm	NA	NA	NA	886	1589	890	769	1451	
Dissolved Oxygen			mg/l	NA	NA	NA	0.43	1.5	2.52	1.22	0.32	
pH				NA	NA	NA	6.82	6.27	6.52	6.42	8.25	
Oxidation-Reduction Potential			mV	NA	NA	NA	-129.7	-201.6	-99.5	-64.3	-40.1	

Detected Parameters	Sampled By -->			REI										
	ES	PAL	Units	8/7 to 8/11	8/13/2018	8/16/2018	9/25/2018	11/27/2018	5/14/2019	9/16/2019				
Dissolved Lead	15	1.5	µg/l	Completed Carbon Injection Scope	NA	Soil Excavation	NA	NA	NA	NA				
VOC Parameters														
Benzene	5	0.5	µg/l		2,710		1,120	439	1,970	310				
Ethylbenzene	700	140	µg/l		1,220		894	26	1,380	396				
Toluene	800	160	µg/l		1,940		179	34.6	4,780	175				
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		< 16.0		6.4*	< 1.6	< 6.2	< 12.5				
Xylenes (mixed isomers)	2,000	400	µg/l		7,370		5,190	55.3	6,930	2,540				
Trimethylbenzenes (mixed isomers)	480	96	µg/l		2,732		1,033	4.1*	928	592				
Naphthalene	100	10	µg/l		161		170	< 2.5	142	54.2				
Natural Attenuation Parameters														
Temperature			°F				62.86		NA	45.2	41.8	NA		
Conductivity			uS/cm				1491		NA	648.6	2,741	NA		
Dissolved Oxygen			mg/l		0.74		NA	1.56	0.34	NA				
pH					7.89		NA	6.79	6.28	NA				
Oxidation-Reduction Potential			mV		-34.2		NA	201.2	30.1	NA				

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

Table 2h
Summary of Groundwater Analytical Results
MW3
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			Earth Burners											
	ES	PAL	Units	05/27/93	06/15/93	08/26/93	11/18/93	03/01/94	07/22/94	10/27/94	02/09/95	5/19/1995	8/7/1995	12/15/1995	3/11/1996
Lead	15	1.5	µg/l	118		< 50	<i>11</i>	NS	NA	80	NS	72	NA	< 2.0	NS
Lead (Dissolved)	15	1.5	µg/l	NA		NA	NA	NS	< 50	NA	NS	NA	NA	NA	NS
GRO			mg/l	NA		< 100	< 100	NS	1100	< 100	NS	< 100	107	< 100	NS
VOC Parameters															
Benzene	5	0.5	µg/l	< 1.0	Soil	< 5.0	< 5.0	NS	<i>4.8</i>	< 5.0	NS	< 5.0	55.9	< 5	NS
Ethylbenzene	700	140	µg/l	< 1.0	Excavation	< 5.0	< 5.0	NS	13	< 5.0	NS	< 5.0	< 5.0	< 5	NS
Toluene	800	160	µg/l	< 1.0	Completed	< 5.0	< 5.0	NS	92	< 5.0	NS	< 5.0	< 5.0	< 5	NS
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA		< 5.0	< 5.0	NS	< 5.0	< 5.0	NS	< 5.0	< 5.0	< 5	NS
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0		< 5.0	< 5.0	NS	130	< 5.0	NS	< 5.0	< 5.0	< 5	NS
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 1.0		< 5.0	< 5.0	NS	88	< 5.0	NS	< 5.0	< 5.0	< 5	NS
Naphthalene	100	10	µg/l	< 1.0		NA	NA	NS	NA	NA	NS	NA	NA	NA	NS
Dibromochloromethane			µg/l	< 1.0		NA	NA	NS	NA	NA	NS	NA	NA	NA	NS
n-Propylbenzene			µg/l	< 1.0		NA	NA	NS	NA	NA	NS	NA	NA	NA	NS
Isopropylbenzene			µg/l	< 1.0		NA	NA	NS	NA	NA	NS	NA	NA	NA	NS
n-Butylbenzene			µg/l	< 1.0		NA	NA	NS	NA	NA	NS	NA	NA	NA	NS
tert-Butylbenzene			µg/l	< 1.0		NA	NA	NS	NA	NA	NS	NA	NA	NA	NS

Detected Parameters	Sampled By -->			Northern	Tetra-Tech			
	ES	PAL	Units	11/17/2003	4/14/2006	4/18/2007	8/15/2007	10/3/2007
VOC Parameters								
Benzene	5	0.5	µg/l	< 0.5	< 0.12	< 0.25	NS	NS
Ethylbenzene	700	140	µg/l	< 0.18	< 0.3	< 0.22	NS	NS
Toluene	800	160	µg/l	< 0.54	< 0.13	< 0.11	NS	NS
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.69	< 0.11	< 0.23	NS	NS
Xylenes (mixed isomers)	2,000	400	µg/l	< 2.6	< 1.7	< 0.39	NS	NS
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 1.05	< 0.58	< 0.25	NS	NS
Naphthalene	100	10	µg/l	NA	NA	< 0.50	NS	NS

Detected Parameters	Sampled By -->			Carlson McCain								
	ES	PAL	Units	7/13/2010	Oct/Nov 2010	11/23/2010	3/4/2011	7/22/2011	10/27/2011	1/26/2012	4/27/2012	10/5/2012
VOC Parameters												
Benzene	5	0.5	µg/l	< 0.31		< 0.31	NS	NS	NS	< 0.31	NS	NS
Ethylbenzene	700	140	µg/l	< 0.37	ORC	< 0.37	NS	NS	NS	< 0.37	NS	NS
Toluene	800	160	µg/l	< 0.50	Injection	< 0.50	NS	NS	NS	< 0.50	NS	NS
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.30		< 0.30	NS	NS	NS	< 0.30	NS	NS
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.39		< 1.39	NS	NS	NS	< 1.39	NS	NS
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.44		< 0.44	NS	NS	NS	< 0.44	NS	NS
Naphthalene	100	10	µg/l	NA		< 2.00	NS	NS	NS	< 2.00	NS	NS

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

Preventive Action Limit exceeded

BOLD
<i>Italics</i>

Table 2i
Summary of Groundwater Analytical Results
MW3
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI							
	ES	PAL	Units	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018	
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	NA	NA	5.0*	NA	
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.34	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	
Ethylbenzene	700	140	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	
Toluene	800	160	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.37	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.71	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.36	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	
Naphthalene	100	10	µg/l	< 0.37	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	
Natural Attenuation Parameters											
Temperature			°F	NA	NA	NA	58.23	59.02	46.89	41.11	
Conductivity			uS/cm	NA	NA	NA	537	635	350	589	
Dissolved Oxygen			mg/l	NA	NA	NA	1.21	2.18	5.04	2.63	
pH				NA	NA	NA	6.91	6.56	5.76	6.93	
Oxidation-Reduction Potential			mV	NA	NA	NA	-102.5	-50.8	120.7	-99.0	

Detected Parameters	Sampled By -->			REI							
	ES	PAL	Units	5/16/2018	8/7 to 8/11	8/13/2018	8/16/2018	11/27/2018	5/14/2019	9/16/2019	
Dissolved Lead	15	1.5	µg/l	NA	Completed Carbon Injection Scope	NA	Soil Excavation	NA	NA	NA	
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.31		< 0.31		< 0.31	< 0.25	< 0.25	
Ethylbenzene	700	140	µg/l	< 0.33		< 0.33		< 0.33	< 0.22	< 0.22	
Toluene	800	160	µg/l	0.76*		< 0.49		< 0.49	< 0.17	< 0.17	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.66		< 0.66		< 0.66	< 1.2	< 1.2	
Xylenes (mixed isomers)	2,000	400	µg/l	0.67*		< 0.32		< 0.32	< 0.47	< 0.47	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.34		< 0.34		< 0.34	< 0.87	< 0.87	
Naphthalene	100	10	µg/l	< 0.51		< 0.51		< 0.51	< 1.2	< 1.2	
Natural Attenuation Parameters											
Temperature			°F	42.94		63.90		42.70	42.6	61.5	
Conductivity			uS/cm	812		1,087		740.3	829	613	
Dissolved Oxygen			mg/l	1.21		0.69		2.08	0.24	5.36	
pH				6.95		8.01		6.93	6.42	6.64	
Oxidation-Reduction Potential			mV	-30.4		-29.4		189	158.5	206.9	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

Table 2j
Summary of Groundwater Analytical Results
MW4
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			Earth Burners												
	ES	PAL	Units	05/27/93	06/15/93	08/26/93	11/18/93	03/01/94	07/22/94	10/27/94	2/9/1995	5/19/1995	8/7/1995	12/15/1995	3/11/1996	11/17/2003
Lead	15	1.5	µg/l	18		< 50	<i>10</i>	<i>2</i>	NA	140	15	80	NA	< 2	NA	< 50
Lead (Dissolved)	15	1.5	µg/l	NA		NA	NA	NA	< 50	NA	NA	NA	NA	NA	NA	NA
GRO			mg/l	< 100		< 100	< 100	< 100	570	< 100	< 100	123	< 100	< 100	< 50	< 100
VOC Parameters																
Benzene	5	0.5	µg/l	<i>3.0</i>	Soil	146	< 5.0	< 5.0	34	< 5.0	39	72	5.83	23	37	< 0.5
Ethylbenzene	700	140	µg/l	< 1.0	Excavation	< 5.0	< 5.0	< 5.0	2.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 0.18
Toluene	800	160	µg/l	< 1.0	Completed	< 5.0	< 5.0	< 5.0	34	< 5.0	< 5.0	< 5.0	5.46	< 5.0	< 1.0	< 0.54
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 0.69
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0		< 5.0	< 5.0	< 5.0	30	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.6
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 1.0		< 5.0	< 5.0	< 5.0	37	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.05
Naphthalene	100	10	µg/l	< 1.0		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane			µg/l	< 1.0		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	< 1.0		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene			µg/l	< 1.0		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene			µg/l	< 1.0		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene			µg/l	< 1.0		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Detected Parameters	Sampled By -->			Northern	Tetra-Tech		
	ES	PAL	Units	4/14/2006	4/18/2007	8/15/2007	10/3/2007
VOC Parameters							
Benzene	5	0.5	µg/l	< 0.12	< 0.25	74	< 0.25
Ethylbenzene	700	140	µg/l	< 0.50	< 0.22	< 0.22	< 0.22
Toluene	800	160	µg/l	< 0.13	< 0.11	0.24*	0.42
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.11	< 0.23	< 0.23	< 0.23
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.7	< 0.39	0.70*	< 0.39
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.58	< 0.25	< 0.25	< 0.25
Naphthalene	100	10	µg/l	NA	< 0.50	< 0.50	< 0.50

Detected Parameters	Sampled By -->			Carlson McCain								
	ES	PAL	Units	7/13/2010	Oct/Nov 2010	11/23/2010	3/4/2011	7/22/2011	10/27/2011	1/26/2012	4/27/2012	10/5/2012
VOC Parameters												
Benzene	5	0.5	µg/l	11.5		<i>2.6</i>	21	70.6	41.1	77	< 0.31	110
Ethylbenzene	700	140	µg/l	< 0.50	ORC	< 0.50	0.14*	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	800	160	µg/l	< 0.37	Injection	< 0.37	0.13*	0.448*	< 0.37	0.577*	< 0.37	< 5.0
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.30		< 0.30	0.30*	< 0.30	< 0.30	< 0.30	< 0.30	4.9
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.39		< 1.39	0.43*	< 1.39	< 1.39	0.943*	< 1.39	2.75
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.44		< 0.44	0.14*	< 0.44	< 0.44	< 0.44	< 0.44	< 1.0
Naphthalene	100	10	µg/l	NA		< 2.00	0.48*	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*

Table 2k
Summary of Groundwater Analytical Results
MW4
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI						
	ES	PAL	Units	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	NA	NA	6.0*	NA
VOC Parameters										
Benzene	5	0.5	µg/l	< 0.34	192	56	20.3	119	311	221
Ethylbenzene	700	140	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.98
Toluene	800	160	µg/l	< 0.34	1.36	< 0.39	< 0.39	0.94*	3.1	1.5*
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.37	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 1.2
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.71	4.4	< 0.80	< 0.80	2.9	10.4	4.3*
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.36	< 0.42	< 0.42	< 0.42	< 0.42	0.53*	< 1.0
Naphthalene	100	10	µg/l	< 0.37	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 1.1
Natural Attenuation Parameters										
Temperature			°F	NA	NA	NA	54.96	53.05	41.39	33.99
Conductivity			uS/cm	NA	NA	NA	1,216	1,194	679	577
Dissolved Oxygen			mg/l	NA	NA	NA	0.74	1.25	3.82	3.23
pH				NA	NA	NA	6.71	6.26	6.41	5.69
Oxidation-Reduction Potential			mV	NA	NA	NA	-140.2	-50.7	-21.7	19.7

Detected Parameters	Sampled By -->			REI							
	ES	PAL	Units	5/16/2018	8/7 to 8/11	8/13/2018	8/16/2018	11/27/2018	5/14/2019	9/16/2019	
Dissolved Lead	15	1.5	µg/l	NA	Completed Carbon Injection Scope	NA	Soil Excavation	NA	NA	NA	
VOC Parameters											
Benzene	5	0.5	µg/l	101		126		8.0	68.5	< 0.25	
Ethylbenzene	700	140	µg/l	< 0.33		< 0.33		< 0.33	< 0.22	< 0.22	
Toluene	800	160	µg/l	< 0.49		1.1*		< 0.49	0.20*	< 0.17	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.32		< 0.32		< 0.32	< 1.2	< 1.2	
Xylenes (mixed isomers)	2,000	400	µg/l	0.91*		6.6		< 0.66	< 0.47	< 0.47	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.34		0.36*		< 0.34	< 0.87	< 0.87	
Naphthalene	100	10	µg/l	< 0.51		< 0.51		< 0.51	< 1.2	< 1.2	
Natural Attenuation Parameters											
Temperature			°F	39.38		51.76		36.00	41.8	57.3	
Conductivity			uS/cm	750		976		572.8	1,108	1,275	
Dissolved Oxygen			mg/l	0.99		1.19		2.95	0.47	0.51	
pH				7.5		7.71		6.96	6.59	6.34	
Oxidation-Reduction Potential			mV	38.9		11.8		52.9	-46.3	11.5	

Notes:

ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded
Preventive Action Limit exceeded

BOLD
<i>Italics</i>

Table 21
Summary of Groundwater Analytical Results
MW5
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			Tetra-Tech			REI			
	ES	PAL	Units	4/18/2007	8/15/2007	10/3/2007	11/14/2013	2/18/2015	6/28/2016	10/3/2016
VOC Parameters										
Benzene	5	0.5	µg/l	< 0.25	< 0.25	< 0.25	Well	Well	Well	Well
Ethylbenzene	700	140	µg/l	< 0.22	< 0.22	< 0.22	Not	Not	Not	Abandoned
Toluene	800	160	µg/l	0.15*	< 0.11	0.29*	Sampled	Sampled	Sampled	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.23	< 0.23	< 0.23				
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.39	< 0.39	< 0.39				
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.25	< 0.25	< 0.25				
Naphthalene	100	10		< 0.50	< 0.50	< 0.50				

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

Table 2m
Summary of Groundwater Analytical Results
MW5R
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			Carlson McCain							
	ES	PAL	Units	7/13/2010	11/23/2010	3/4/2011	7/22/2011	10/27/2011	1/26/2012	4/27/2012	10/5/2012
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.31	< 0.31	0.14*	< 0.31	< 0.31	< 0.31	< 0.31	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	0.14*	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0
Toluene	800	160	µg/l	< 0.37	< 0.37	0.13*	< 0.37	< 0.37	< 0.37	< 0.37	< 0.50
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.30	< 0.30	0.30*	< 0.30	< 0.30	< 0.30	< 0.30	< 0.10
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.39	< 1.39	0.43*	< 1.39	< 1.39	< 1.39	< 1.39	< 1.50
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.44	< 0.44	0.12*	< 0.44	< 0.44	< 0.44	< 0.44	< 1.0
Naphthalene	100	10	µg/l	< 2.00	< 2.00	0.48*	< 2.00	< 2.00	< 2.00	< 2.00	< 5.0

Detected Parameters	Sampled By -->			REI						
	ES	PAL	Units	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	NA	NA	< 4.3	NA
VOC Parameters										
Benzene	5	0.5	µg/l	< 0.34	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	140	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Toluene	800	160	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.37	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.71	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.36	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Naphthalene	100	10	µg/l	< 0.37	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Natural Attenuation Parameters										
Temperature			°F	NA	NA	NA	55.35	53.56	46.46	39.48
Conductivity			uS/cm	NA	NA	NA	233	286	974	1,455
Dissolved Oxygen			mg/l	NA	NA	NA	5.18	1.35	7.35	4.00
pH				NA	NA	NA	6.76	5.63	6.3	6.87
Oxidation-Reduction Potential			mV	NA	NA	NA	-35.2	60.9	106.8	-15.6

Detected Parameters	Sampled By -->			REI								
	ES	PAL	Units	5/16/2018	8/7 to 8/11	8/13/2018	8/16/2018	11/27/2018	5/14/2019	9/16/2019		
Dissolved Lead	15	1.5	µg/l	NA	Completed Carbon Injection Scope	NA	Soil Excavation	NA	NA	NA		
VOC Parameters												
Benzene	5	0.5	µg/l	< 0.31		< 0.31		< 0.31	< 0.25	< 0.25		
Ethylbenzene	700	140	µg/l	< 0.33		< 0.33		< 0.33	< 0.22	< 0.22		
Toluene	800	160	µg/l	< 0.49		< 0.49		< 0.49	< 0.17	< 0.17		
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.66		< 0.66		< 0.66	< 1.2	< 1.2		
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.32		< 0.32		< 0.32	< 0.47	< 0.47		
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.34		< 0.34		< 0.34	< 0.87	< 0.87		
Naphthalene	100	10	µg/l	< 0.51		< 0.51		< 0.51	< 1.2	< 1.2		
Natural Attenuation Parameters												
Temperature			°F	45.21		61.48		42.9	41.1	62.5		
Conductivity			uS/cm	1,508		669		208.3	1,777	210.8		
Dissolved Oxygen			mg/l	7.76		3.7		7.14	3.92	6.45		
pH				6.58		NA		7.49	6.68	6.78		
Oxidation-Reduction Potential			mV	170.6		NA		179.7	73.9	167.5		

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

Table 2n
Summary of Groundwater Analytical Results
MW6
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI													
	ES	PAL	Units	6/29/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018	5/16/2018	8/7 to 8/11	8/13/2018	8/16/2018	11/27/2018	5/14/2019	9/16/2019		
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	6.5*	NA	NA	Completed Carbon Injection Scope	NA	Soil Excavation	NA	NA	NA		
VOC Parameters																	
Benzene	5	0.5	µg/l	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.31		< 0.31		< 0.31	< 0.31	< 0.25	< 0.25	
Ethylbenzene	700	140	µg/l	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.33		< 0.33		< 0.33	< 0.33	< 0.22	< 0.22	
Toluene	800	160	µg/l	0.71*	< 0.39	< 0.39	< 0.39	< 0.39	< 0.49		< 0.49		< 0.49	< 0.49	< 0.17	< 0.17	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.66		< 0.66		< 0.66	< 0.66	< 1.2	< 1.2	
Xylenes (mixed isomers)	2,000	400	µg/l	0.98*	< 0.80	< 0.80	< 0.80	< 0.80	< 0.32		< 0.32		< 0.32	< 0.32	< 0.47	< 0.47	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	0.51*	< 0.42	< 0.42	< 0.42	< 0.42	< 0.34		< 0.34		< 0.34	< 0.34	< 0.87	< 0.87	
Naphthalene	100	10	µg/l	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.51		< 0.51		< 0.51	< 0.51	< 1.2	< 1.2	
Natural Attenuation Parameters																	
Temperature			°F		60.25	57.19	47.08	40.17	45.00		61.35		41.20	41.3	61.9		
Conductivity			uS/cm		727	1,494	571	840	709		1,352		923	1,746	675		
Dissolved Oxygen			mg/l		1.36	1.93	3.03	1.22	2.78		1.15		1.67	0.49	2.89		
pH					6.72	6.11	6.14	6.61	6.83		NA		7.10	6.4	6.49		
Oxidation-Reduction Potential			mV		-60.8	-44.4	29.8	-66.4	51.2		NA		138.7	-24.1	209.3		

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

Table 2o
Summary of Groundwater Analytical Results
MW7
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI													
	ES	PAL	Units	6/29/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018	5/16/2018	8/7 to 8/11	8/13/2018	8/16/2018	11/27/2018	5/14/2019	9/16/2019		
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	< 4.3	NA	NA	Completed Carbon Injection Scope	NA	Soil Excavation	NA	NA	NA		
VOC Parameters																	
Benzene	5	0.5	µg/l	<i>1.8</i>	Sample	<i>2.4</i>	< 0.40	< 0.40	< 0.31		0.39*				< 0.31	< 0.25	< 0.25
Ethylbenzene	700	140	µg/l	1.9	Damaged	< 0.39	< 0.39	< 0.39	< 0.33		< 0.33				< 0.33	< 0.22	< 0.22
Toluene	800	160	µg/l	3.0	Not	< 0.39	< 0.39	< 0.39	< 0.49		< 0.49				< 0.49	< 0.17	< 0.17
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	Reported	< 0.48	< 0.48	< 0.48	< 0.32		< 0.32				< 0.32	< 1.2	< 1.2
Xylenes (mixed isomers)	2,000	400	µg/l	5.4		< 0.80	< 0.80	< 0.80	< 0.66		< 0.66				< 0.66	< 0.47	< 0.47
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1.4		< 0.42	< 0.42	< 0.42	< 0.34		< 0.34				< 0.34	< 0.87	< 0.87
Naphthalene	100	10	µg/l	1.7		< 0.42	< 0.42	< 0.42	< 0.51		< 0.51				< 0.51	< 1.2	< 1.2
Natural Attenuation Parameters																	
Temperature			°F		54.4	52.43	43.02	33.2	39.18		54.79		41.7	41.2	55.7		
Conductivity			uS/cm		1,215	1,573	810	652	1,003		1,230		727	1,439	1,357		
Dissolved Oxygen			mg/l		1.63	1.90	3.49	3.05	1.02		1.07		3.07	0.45	0.63		
pH					6.94	5.65	6.52	6.74	7.97		7.23		6.79	6.70	6.61		
Oxidation-Reduction Potential			mV		-128.6	-88.9	63.8	-26.9	73.2		45.6		209.1	-6.8	-19.6		

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

Table 2p
Summary of Groundwater Analytical Results
MW8
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI											
	ES	PAL	Units	6/29/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018	5/16/2018	8/7 to 8/11	8/13/2018	8/16/2018	11/27/2018	5/14/2019	9/16/2019
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	11.8*	NA	NA	Completed Carbon Injection Scope	NA	Soil Excavation	NA	NA	NA
VOC Parameters											< 0.31		< 0.31	< 0.25	< 0.25
Benzene	5	0.5	µg/l	236	37.9	119	115	115	65.7		< 0.33		< 0.33	< 0.22	< 0.22
Ethylbenzene	700	140	µg/l	106	20.2	78.6	33.7	18.2	30.7		< 0.49		< 0.49	< 0.17	< 0.17
Toluene	800	160	µg/l	17.3	1.5	6.0	4.9	1.7	2.1		< 0.32		< 0.32	< 1.2	< 1.2
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.97	< 0.48	< 0.48	< 0.48	< 0.48	< 0.32		< 0.66		< 0.66	< 0.47	< 0.47
Xylenes (mixed isomers)	2,000	400	µg/l	50.3	6.1	18.2	9.6	4.5	4.9		< 0.34		< 0.34	< 0.87	< 0.87
Trimethylbenzenes (mixed isomers)	480	96	µg/l	9.5	5.9	20.8	9.6	1.6	5.7		< 0.51		< 0.51	< 1.2	< 1.2
Naphthalene	100	10	µg/l	<i>11.3</i>	8.9	<i>17.5</i>	<i>11.0</i>	1.9	5.6						
Natural Attenuation Parameters															
Temperature			°F	NA	55.15	52.64	42.86	41.27	44.96	NA	NA	40.30	42.2	NA	
Conductivity			uS/cm	NA	2,102	2,085	976	1,267	1,278	NA	NA	663	1,442	NA	
Dissolved Oxygen			mg/l	NA	0.65	0.67	2.85	2.22	0.8	NA	NA	1.69	0.37	NA	
pH				NA	6.40	6.29	6.46	6.13	6.89	NA	NA	7.29	6.70	NA	
Oxidation-Reduction Potential			mV	NA	-116.1	-26.3	-11.3	-79.3	77.6	NA	NA	65.8	-1.7	NA	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

Table 2g
Summary of Groundwater Analytical Results
MW9
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI											
	ES	PAL	Units	7/7/2017	11/27/2017	2/13/2018	5/16/2018	8/7 to 8/11	8/13/2018	8/16/2018	11/27/2018	5/14/2019	9/16/2019		
Dissolved Lead	15	1.5	µg/l	NA	< 4.3	NA	NA	Completed Carbon Injection Scope	NA	Soil Excavation	NA	NA	NA		
VOC Parameters															
Benzene	5	0.5	µg/l	< 0.50	< 0.40	< 0.40	< 0.31		< 0.31		< 0.31	< 0.25	< 0.25	< 0.25	
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39	< 0.39	< 0.33		< 0.33		< 0.33	< 0.22	< 0.22	< 0.22	
Toluene	800	160	µg/l	< 0.50	< 0.39	< 0.39	< 0.49		< 0.49		< 0.49	< 0.17	< 0.17	< 0.17	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48	< 0.48	< 0.32		< 0.32		< 0.32	< 1.2	< 1.2	< 1.2	
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80	< 0.80	< 0.66		< 0.66		< 0.66	< 0.47	< 0.47	< 0.47	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42	< 0.42	< 0.34		< 0.34		< 0.34	< 0.87	< 0.87	< 0.87	
Naphthalene	100	10	µg/l	< 2.5	< 0.42	< 0.42	< 0.51		< 0.51		< 0.51	< 1.2	< 1.2	< 1.2	
Natural Attenuation Parameters															
Temperature			°F	NA	43.71	39.36	44.19				62.35		40.3	43.5	58.9
Conductivity			uS/cm	NA	1,949	1,737	2,200				3,119		4,240	3,286	3,657
Dissolved Oxygen			mg/l	NA	3.63	1.42	1.1		1.39		2.87	2.54	3.94		
pH				NA	5.9	6.29	6.57		6.41		6.27	7.34	6.09		
Oxidation-Reduction Potential			mV	NA	24.5	103.5	137.5		723.3		86.8	-8.4	207.2		

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

Table 2r
Summary of Groundwater Analytical Results
MW10
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI				
	ES	PAL	Units	9/25/2018	8/16/2018	11/27/2018	5/14/2019	9/16/2019
Dissolved Lead	15	1.5	µg/l	NA	Soil Excavation	NA	NA	NA
VOC Parameters								
Benzene	5	0.5	µg/l	< 0.31		< 0.31	< 0.25	< 0.25
Ethylbenzene	700	140	µg/l	< 0.33		< 0.33	< 0.22	< 0.22
Toluene	800	160	µg/l	< 0.49		< 0.49	< 0.17	< 0.17
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.32		< 0.32	< 1.2	< 1.2
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.66		< 0.66	< 0.47	< 0.47
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.34		< 0.34	< 0.87	< 0.87
Naphthalene	100	10	µg/l	< 0.51		< 0.51	< 1.2	< 1.2
Natural Attenuation Parameters								
Temperature			°F	NA		41.00	39.7	57
Conductivity			uS/cm	NA		3,481	2,129	2,155
Dissolved Oxygen			mg/l	NA		3.66	0.47	0.5
pH				NA	7.31	7.25	6.56	
Oxidation-Reduction Potential			mV	NA	66.6	38.9	155	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

Table 2s
Summary of Groundwater Analytical Results
R-O-W Potable
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->			REI										
	ES	PAL	Units	6/28/2016	10/3/2016	7/7/2017	11/27/2017	2/13/2018	5/16/2018	8/7 to 8/11	8/13/2018	11/27/2018	5/14/2019	5/20/2019
VOC Parameters														
Benzene	5	0.5	µg/l	<i>2.1</i>	7.3	< 0.40	< 0.40	Well Not Sampled	<i>1.9</i>	Completed Carbon Injection Scope	<i>4.9</i>	< 0.31	0.61*	Well Abandoned
Ethylbenzene	700	140	µg/l	< 0.39	0.91*	< 0.39	< 0.39		< 0.33		0.46	< 0.33	< 0.22	
Toluene	800	160	µg/l	< 0.39	< 0.39	< 0.39	< 0.39		< 0.49		0.20*	< 0.49	< 0.17	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	< 0.48	< 0.48	< 0.48		< 0.32		< 0.17	< 0.32	< 1.2	
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80	< 0.80	< 0.80	< 0.80		< 0.66		< 0.30	< 0.66	< 0.47	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42	< 0.42	< 0.42	< 0.42		< 0.34		< 0.23	< 0.34	< 0.87	
Naphthalene	100	10	µg/l	< 0.42	< 0.42	< 0.42	< 0.42		< 0.51		< 0.18	< 0.51	< 1.2	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

Table 2f
Summary of Groundwater Analytical Results
On Site Potable Well
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

VOC Parameters	ES	PAL	Units	On Site Potable (PW1) 13195 S State Highway 35										
				5/27/1993	1/9/2001**	2/6/2001	4/9/2002	4/14/2006	4/18/2007	10/3/2007	9/10/2008	12/18/2008	10/27/2011	1/26/2012
Benzene	5	0.5	µg/l	< 1.00	< 0.15	< 0.15	< 0.15	< 0.17	< 0.20	< 0.050	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene	700	140	µg/l	< 1.00	< 0.15	< 0.15	< 0.15	< 0.20	< 0.10	< 0.050	< 0.20	< 0.20	< 0.20	< 0.20
Toluene	800	160	µg/l	< 1.00	< 0.15	< 0.15	< 0.15	< 0.25	0.49*	0.35	< 0.40	< 0.40	< 0.40	< 0.40
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	< 0.15	< 0.15	< 0.15	< 0.34	< 0.20	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 2.00	< 0.15	< 0.15	< 0.15	< 0.33	< 1.00	< 0.050	< 1.00	< 1.00	< 1.00	< 1.00
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 1.00	< 0.15	< 0.15	< 0.15	< 1.20	< 0.20	< 0.050	< 0.20	< 0.20	< 0.20	< 0.20
Naphthalene	100	10	µg/l		< 0.15	< 0.15	< 0.15	< 2.20	< 1.00	< 0.25	< 1.00	< 1.00	< 1.0	< 1.0
Chloroform	6	0.6	µg/l		0.15*	< 0.15	< 0.15	6.80	< 0.20	< 0.050	< 0.20	< 0.20	< 0.20	< 0.20
Chloromethane	30	3	µg/l		< 0.15	< 0.15	< 0.15	< 0.91	< 0.30	0.11*	< 0.40	0.45*	< 0.40	< 0.40
1,2-Dichloropropane	5	0.5	µg/l		0.16*	< 0.15	< 0.15	< 0.21	< 0.20	< 0.050	< 1.00	< 0.30	< 0.50	< 0.40
1,2-Dichloroethane	5	0.5	µg/l	< 1.00	< 0.15	< 0.15	< 0.15	< 0.72	< 0.20	< 0.050	< 0.30	< 0.30	< 0.30	< 0.30
Isopropylbenzene			µg/l	< 1.00	< 0.15	< 0.15	< 0.15	< 0.99	< 0.10	< 0.050	< 0.10	< 0.10	< 0.20	< 0.20

VOC Parameters	ES	PAL	Units	On Site Potable (PW1) 13195 S State Highway 35										
				3/15/2012	4/27/2012	10/5/2012	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017	11/27/2017	5/14/2019	9/16/2019
Benzene	5	0.5	µg/l	< 0.20	< 0.20	< 0.50	< 0.24	< 0.40	< 0.50	< 0.086	< 0.086	< 0.23	< 0.12	< 0.12
Ethylbenzene	700	140	µg/l	< 0.20	< 0.20	< 0.50	< 0.21	< 0.39	< 0.50	< 0.051	< 0.051	< 0.22	< 0.11	< 0.11
Toluene	800	160	µg/l	< 0.40	< 0.40	< 0.50	< 0.22	< 0.39	< 0.50	< 0.080	< 0.080	< 0.22	< 0.078	< 0.078
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.50	< 0.50	< 0.50	< 0.25	< 0.48	< 0.17	< 0.058	< 0.058	< 0.29	< 0.17	< 0.17
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.00	< 1.00	< 0.50	< 0.75	< 0.80	< 1.0	< 0.073	< 0.073	< 0.48	< 0.30	< 0.30
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.20	< 0.20	< 0.50	< 0.25	< 0.42	< 0.50	< 0.083	< 0.083	< 0.22	< 0.15	< 0.15
Naphthalene	100	10	µg/l	< 1.0	< 1.0	NA	< 0.50	< 0.42	< 2.5	< 0.064	< 0.064	< 0.23	< 0.18	< 0.18
Chloroform	6	0.6	µg/l	< 0.20	< 0.20	< 0.50	< 0.50	NA	< 2.5	< 0.10	< 0.10	< 0.25	< 0.31	< 0.31
Chloromethane	30	3	µg/l	< 0.40	< 0.40	< 0.50	< 0.50	NA	< 0.50	< 0.21	< 0.21	< 0.23	< 0.15	< 0.15
1,2-Dichloropropane	5	0.5	µg/l	< 0.40	< 0.40	< 0.50	< 0.20	NA	< 0.23	< 0.084	< 0.084	< 0.23	< 0.19	< 0.19
1,2-Dichloroethane	5	0.5	µg/l	< 0.30	< 0.30	< 0.50	< 0.21	NA	< 0.17	< 0.092	< 0.092	< 0.25	< 0.19	< 0.19
Isopropylbenzene			µg/l	< 0.20	< 0.20	NA	< 0.12	NA	< 0.14	< 0.11	< 0.11	< 0.22	< 0.17	< 0.17

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

** Collected after water softener

Table 2u
Summary of Groundwater Analytical Results
Neighboring Potable Well
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

VOC Parameters	ES	PAL	Units	Off Site Potable (PW2) 2794 E Moose Road													
				10/12/1992	10/29/1992	11/17/2003	4/14/2006	7/27/2006	4/18/2007	5/15/2007	10/3/2007	9/10/2008	12/18/2008	7/13/2010	8/3/2010	11/23/2010	3/4/2011
Benzene	5	0.5	µg/l	< 1.0	< 1.0	< 0.5	4.30	< 0.17	15.8	< 0.20	< 0.05	< 0.20	< 0.20	5.29	4.8	21.6	6.1
Ethylbenzene	700	140	µg/l	< 1.0	< 1.0	2.6	1.41	< 0.20	4.25	0.42*	0.10*	< 0.20	< 0.20	3.25	2.65	7.99	3.4
Toluene	800	160	µg/l	< 1.0	< 1.0	< 0.54	< 0.25	< 0.25	0.53*	< 0.40	0.88	< 0.40	< 0.40	< 0.40	< 0.40	< 0.61*	< 0.50
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 10.0	< 10.0	< 0.69	< 0.34	< 0.34	< 0.20	< 0.20	< 0.05	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 2.0	< 2.0	4.4*	1.39	< 0.33	< 1.0	< 1.0	0.37	< 1.00	< 1.00	3.05	3.12	8.01	2.7
Trimethylbenzenes (mixed isomers)	480	96	µg/l	NA	NA	0.55*	0.59	< 1.20	2.94	< 0.20	0.12*	< 0.20	< 0.20	0.99	2.16	5.88	0.82
Naphthalene	100	10	µg/l	NA	NA		< 2.20	< 2.20	< 1.0	< 1.0	1.4	< 1.00	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	6	0.6	µg/l	< 1.0	< 1.0		< 0.61	< 0.61	< 0.20	< 0.20	< 0.05	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50
Chloromethane	30	3	µg/l	NA	NA		< 0.91	< 0.91	< 0.30	< 0.30	0.16*	< 0.30	< 0.30	< 0.40	< 0.40	< 1.0	< 1.0
1,4-Dichlorobenzene	75	15	µg/l	< 2.0	< 2.0		< 0.45	< 0.45	< 0.80	< 0.80	0.56	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.50
1,1,1-Trichloroethane	200	40	µg/l	< 1.0	< 1.0		< 0.42	< 0.42	< 0.20	< 0.20	0.17	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	5	0.5	µg/l	< 1.0	< 1.0		< 0.72	< 0.72	< 0.20	< 0.20	< 0.05	< 0.30	< 0.30	0.36*	0.34*	< 0.30	< 0.50
Isopropylbenzene			µg/l	NA	< 1.0		< 0.99	< 0.99	0.29	< 0.10	< 0.05	< 0.10	< 0.10	< 0.20	0.48*	< 0.50	< 0.20

VOC Parameters	ES	PAL	Units	Off Site Potable (PW2) 2794 E Moose Road												
				7/22/2011	10/27/2011	1/26/2012	4/27/2012	10/5/2012	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017	11/27/2017	8/2018	
Benzene	5	0.5	µg/l	< 0.20	8.36	12.7	4.95	8.6								
Ethylbenzene	700	140	µg/l	< 0.20	4.62	4.63	2.32	2.6	Not	Not	Not	Not	Not	Not	Well	
Toluene	800	160	µg/l	< 0.40	< 0.40	< 0.40	< 0.40	< 0.50	Sampled	Sampled	Sampled	Sampled	Sampled	Sampled	Abandoned	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.00	4.48	4.05	1.9	3.3							Replaced	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.20	3.53	3.22	1.54	NA							With	
Naphthalene	100	10	µg/l	< 1.0	< 1.00	< 1.0	< 1.0	NA							New	
Chloroform	6	0.6	µg/l	< 0.20	0.39*	< 0.20	< 0.20	< 0.50							Well	
Chloromethane	30	3	µg/l	< 1.0	< 0.40	< 0.40	< 0.40	< 0.50								
1,4-Dichlorobenzene	75	15	µg/l	< 0.80	< 0.40	< 0.80	< 0.80	< 0.50								
1,1,1-Trichloroethane	200	40	µg/l	< 0.50	0.47*	< 0.50	< 0.50	< 0.50								
1,2-Dichloroethane	5	0.5	µg/l	< 0.30	0.24*	< 0.30	< 0.30	< 0.50								
Isopropylbenzene			µg/l	< 0.20	< 0.20	0.30*	< 0.20	NA								

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

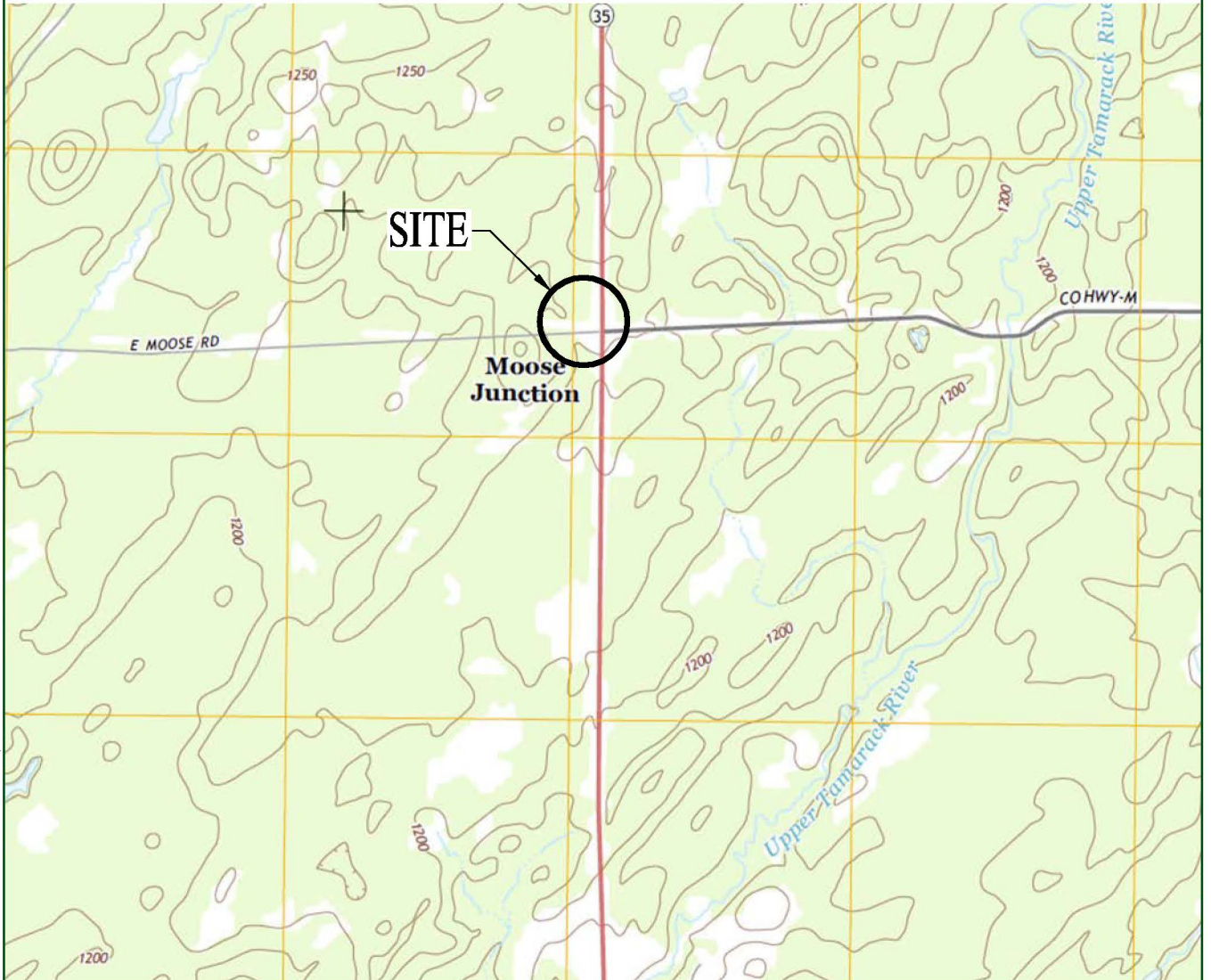
NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

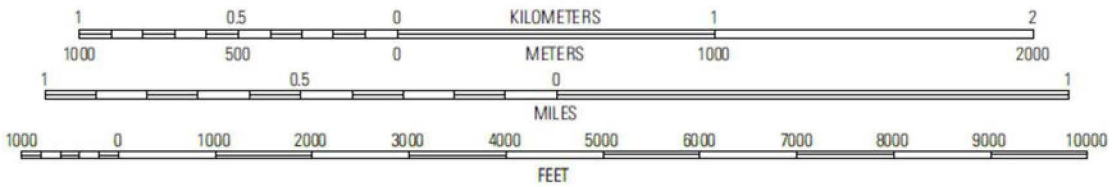
Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded



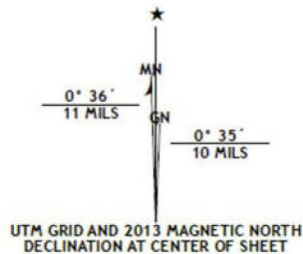
SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
 NORTH AMERICAN VERTICAL DATUM OF 1988



QUADRANGLE LOCATION



MOOSE JUNCTION, WI

2013

REI Engineering, INC.

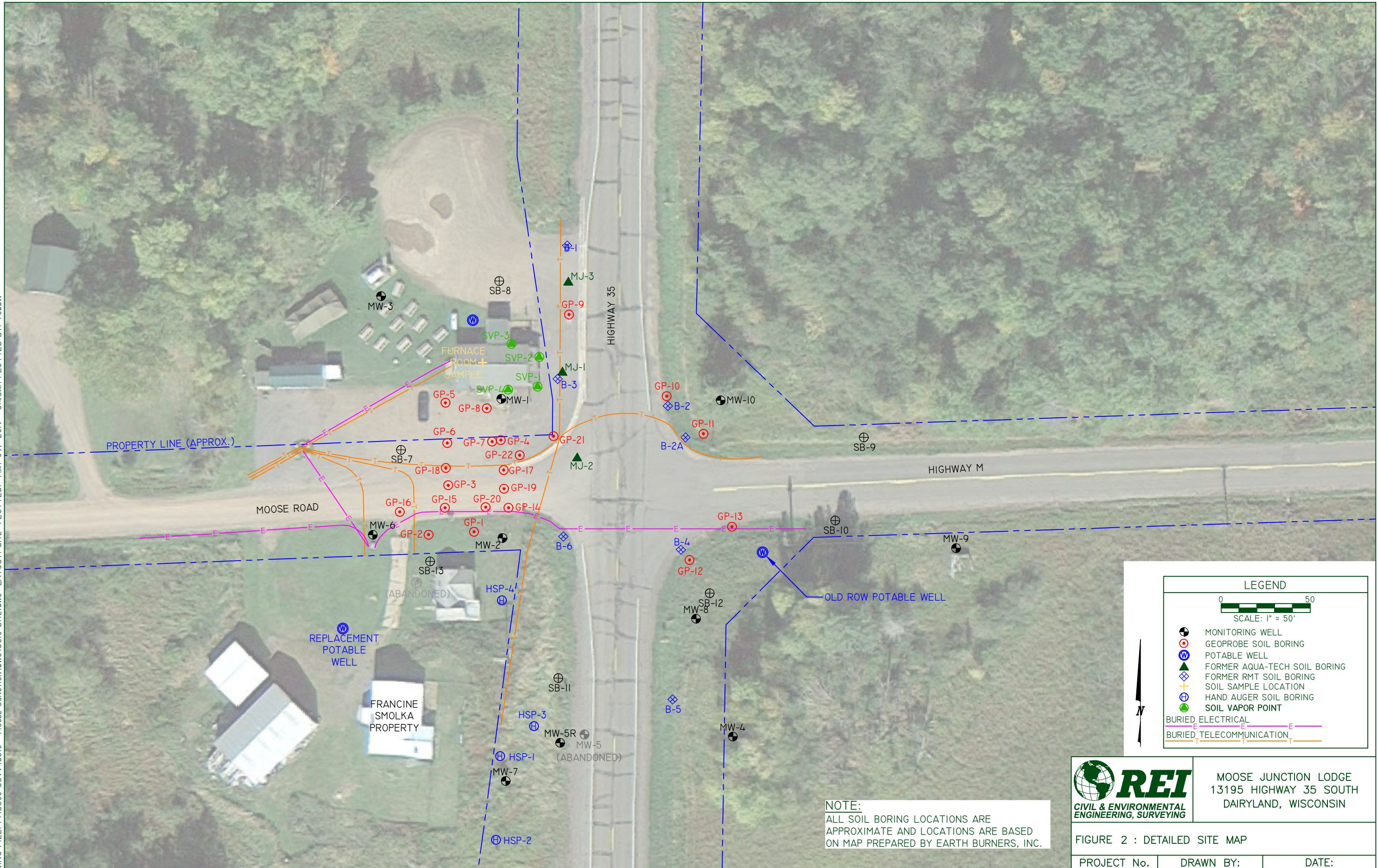
DRAWING FILE: P:\6500-6599\6510 - MOOSE JUNCTION\DWG\6510-VICN.DWG LAYOUT: VICN PLOTTED: JAN 16, 2017 - 5:07PM PLOTTED BY: NATHANP

MOOSE JUNCTION LOUNGE
 13195 HIGHWAY 35 SOUTH
 DAIRYLAND, WISCONSIN

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	6510	DRAWN BY:	TAW	DATE:	3/12/2014
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DRAWING FILE: P:\6500-6599\6510 - Moose Junction\DWG\6510-SITE.DWG LAYOUT: SITE PLOTTED: MAY 09, 2019 - 8:46AM PLOTTED BY: ToddW



NOTE:
 ALL SOIL BORING LOCATIONS ARE APPROXIMATE AND LOCATIONS ARE BASED ON MAP PREPARED BY EARTH BURNERS, INC.

LEGEND

0 50
 SCALE: 1" = 50'

- MONITORING WELL
- GEOPROBE SOIL BORING
- POTABLE WELL
- FORMER AQUA-TECH SOIL BORING
- FORMER RMT SOIL BORING
- SOIL SAMPLE LOCATION
- HAND AUGER SOIL BORING
- SOIL VAPOR POINT
- BURIED ELECTRICAL
- BURIED TELECOMMUNICATION



MOOSE JUNCTION LODGE
 13195 HIGHWAY 35 SOUTH
 DAIRYLAND, WISCONSIN

FIGURE 2 : DETAILED SITE MAP

PROJECT No. 6510	DRAWN BY: MCM	DATE: 5/9/2019
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REI Engineering, INC.

APPENDIX A

LABORATORY ANALYTICAL REPORTS - GROUNDWATER



May 24, 2019

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

RE: Project: 6510 MOOSE JUNCTION
Pace Project No.: 40187902

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2019. 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6510 MOOSE JUNCTION
Pace Project No.: 40187902

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Green Bay Certification IDs

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40187902001	MW1	Water	05/14/19 12:10	05/18/19 08:25
40187902002	MW2	Water	05/14/19 13:35	05/18/19 08:25
40187902003	MW3	Water	05/14/19 12:20	05/18/19 08:25
40187902004	MW4	Water	05/14/19 13:20	05/18/19 08:25
40187902005	MW5R	Water	05/14/19 12:50	05/18/19 08:25
40187902006	MW6	Water	05/14/19 12:30	05/18/19 08:25
40187902007	MW7	Water	05/14/19 12:40	05/18/19 08:25
40187902008	MW8	Water	05/14/19 13:30	05/18/19 08:25
40187902009	MW9	Water	05/14/19 13:00	05/18/19 08:25
40187902010	MW10	Water	05/14/19 13:10	05/18/19 08:25
40187902011	ROW	Water	05/14/19 13:15	05/18/19 08:25
40187902012	TRENT POTABLE	Water	05/14/19 12:51	05/18/19 08:25

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SAMPLE ANALYTE COUNT

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40187902001	MW1	EPA 8260	HNW	12	PASI-G
40187902002	MW2	EPA 8260	HNW	12	PASI-G
40187902003	MW3	EPA 8260	HNW	12	PASI-G
40187902004	MW4	EPA 8260	HNW	12	PASI-G
40187902005	MW5R	EPA 8260	LAP	12	PASI-G
40187902006	MW6	EPA 8260	LAP	12	PASI-G
40187902007	MW7	EPA 8260	LAP	12	PASI-G
40187902008	MW8	EPA 8260	LAP	12	PASI-G
40187902009	MW9	EPA 8260	LAP	12	PASI-G
40187902010	MW10	EPA 8260	HNW	12	PASI-G
40187902011	ROW	EPA 8260	LAP	12	PASI-G
40187902012	TRENT POTABLE	EPA 524.2	DS2	62	PASI-M

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Sample: MW1 Lab ID: 40187902001 Collected: 05/14/19 12:10 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/21/19 23:59	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/21/19 23:59	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/21/19 23:59	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/21/19 23:59	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/21/19 23:59	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/21/19 23:59	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/21/19 23:59	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/21/19 23:59	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/21/19 23:59	95-47-6	
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		1		05/21/19 23:59	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/21/19 23:59	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		05/21/19 23:59	460-00-4	

Sample: MW2 Lab ID: 40187902002 Collected: 05/14/19 13:35 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	1970	ug/L	50.0	12.3	50		05/22/19 09:52	71-43-2	
Ethylbenzene	1380	ug/L	5.0	1.1	5		05/21/19 12:14	100-41-4	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		05/21/19 12:14	1634-04-4	
Naphthalene	142	ug/L	25.0	5.9	5		05/21/19 12:14	91-20-3	
Toluene	4780	ug/L	250	8.6	50		05/22/19 09:52	108-88-3	
1,2,4-Trimethylbenzene	719	ug/L	14.0	4.2	5		05/21/19 12:14	95-63-6	
1,3,5-Trimethylbenzene	209	ug/L	14.6	4.4	5		05/21/19 12:14	108-67-8	
m&p-Xylene	5240	ug/L	100	23.3	50		05/22/19 09:52	179601-23-1	
o-Xylene	1690	ug/L	50.0	13.1	50		05/22/19 09:52	95-47-6	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		5		05/21/19 12:14	1868-53-7	
Toluene-d8 (S)	96	%	70-130		5		05/21/19 12:14	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		5		05/21/19 12:14	460-00-4	

Sample: MW3 Lab ID: 40187902003 Collected: 05/14/19 12:20 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/22/19 00:21	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/22/19 00:21	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/22/19 00:21	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/22/19 00:21	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/22/19 00:21	108-88-3	

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW3 Lab ID: 40187902003 Collected: 05/14/19 12:20 Received: 05/18/19 08:25 Matrix: Water									
Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/22/19 00:21	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/22/19 00:21	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/22/19 00:21	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/22/19 00:21	95-47-6	
Surrogates									
Dibromofluoromethane (S)	111	%	70-130		1		05/22/19 00:21	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/22/19 00:21	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		05/22/19 00:21	460-00-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW4 Lab ID: 40187902004 Collected: 05/14/19 13:20 Received: 05/18/19 08:25 Matrix: Water									
Analytical Method: EPA 8260									
Benzene	68.5	ug/L	1.0	0.25	1		05/22/19 09:08	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/22/19 09:08	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/22/19 09:08	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/22/19 09:08	91-20-3	
Toluene	0.20J	ug/L	5.0	0.17	1		05/22/19 09:08	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/22/19 09:08	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/22/19 09:08	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/22/19 09:08	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/22/19 09:08	95-47-6	
Surrogates									
Dibromofluoromethane (S)	115	%	70-130		1		05/22/19 09:08	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/22/19 09:08	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		05/22/19 09:08	460-00-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW5R Lab ID: 40187902005 Collected: 05/14/19 12:50 Received: 05/18/19 08:25 Matrix: Water									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/22/19 17:14	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/22/19 17:14	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/22/19 17:14	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/22/19 17:14	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/22/19 17:14	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/22/19 17:14	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/22/19 17:14	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/22/19 17:14	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/22/19 17:14	95-47-6	

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Sample: MW5R Lab ID: 40187902005 Collected: 05/14/19 12:50 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	99	%	70-130		1		05/22/19 17:14	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/22/19 17:14	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		05/22/19 17:14	460-00-4	

Sample: MW6 Lab ID: 40187902006 Collected: 05/14/19 12:30 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/22/19 17:37	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/22/19 17:37	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/22/19 17:37	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/22/19 17:37	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/22/19 17:37	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/22/19 17:37	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/22/19 17:37	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/22/19 17:37	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/22/19 17:37	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	97	%	70-130		1		05/22/19 17:37	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/22/19 17:37	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		05/22/19 17:37	460-00-4	

Sample: MW7 Lab ID: 40187902007 Collected: 05/14/19 12:40 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/22/19 20:41	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/22/19 20:41	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/22/19 20:41	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/22/19 20:41	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/22/19 20:41	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/22/19 20:41	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/22/19 20:41	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/22/19 20:41	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/22/19 20:41	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	99	%	70-130		1		05/22/19 20:41	1868-53-7	HS
Toluene-d8 (S)	96	%	70-130		1		05/22/19 20:41	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/22/19 20:41	460-00-4	

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Sample: MW8 **Lab ID: 40187902008** Collected: 05/14/19 13:30 Received: 05/18/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/23/19 14:27	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/23/19 14:27	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/23/19 14:27	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/23/19 14:27	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/23/19 14:27	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/23/19 14:27	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/23/19 14:27	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/23/19 14:27	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/23/19 14:27	95-47-6	
Surrogates									
Dibromofluoromethane (S)	115	%	70-130		1		05/23/19 14:27	1868-53-7	
Toluene-d8 (S)	110	%	70-130		1		05/23/19 14:27	2037-26-5	
4-Bromofluorobenzene (S)	75	%	70-130		1		05/23/19 14:27	460-00-4	

Sample: MW9 **Lab ID: 40187902009** Collected: 05/14/19 13:00 Received: 05/18/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/22/19 21:04	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/22/19 21:04	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/22/19 21:04	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/22/19 21:04	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/22/19 21:04	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/22/19 21:04	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/22/19 21:04	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/22/19 21:04	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/22/19 21:04	95-47-6	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		05/22/19 21:04	1868-53-7	HS
Toluene-d8 (S)	97	%	70-130		1		05/22/19 21:04	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/22/19 21:04	460-00-4	

Sample: MW10 **Lab ID: 40187902010** Collected: 05/14/19 13:10 Received: 05/18/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/21/19 09:44	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/21/19 09:44	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/21/19 09:44	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/21/19 09:44	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/21/19 09:44	108-88-3	

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW10 Lab ID: 40187902010 Collected: 05/14/19 13:10 Received: 05/18/19 08:25 Matrix: Water									
Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/21/19 09:44	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/21/19 09:44	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/21/19 09:44	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/21/19 09:44	95-47-6	
Surrogates									
Dibromofluoromethane (S)	107	%	70-130		1		05/21/19 09:44	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/21/19 09:44	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		05/21/19 09:44	460-00-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: ROW Lab ID: 40187902011 Collected: 05/14/19 13:15 Received: 05/18/19 08:25 Matrix: Water									
Analytical Method: EPA 8260									
Benzene	0.61J	ug/L	1.0	0.25	1		05/21/19 07:01	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/21/19 07:01	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/21/19 07:01	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/21/19 07:01	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/21/19 07:01	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/21/19 07:01	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/21/19 07:01	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/21/19 07:01	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/21/19 07:01	95-47-6	
Surrogates									
Dibromofluoromethane (S)	107	%	70-130		1		05/21/19 07:01	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		05/21/19 07:01	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		05/21/19 07:01	460-00-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: TRENT POTABLE Lab ID: 40187902012 Collected: 05/14/19 12:51 Received: 05/18/19 08:25 Matrix: Water									
Analytical Method: EPA 524.2									
Benzene	<0.12	ug/L	0.41	0.12	1		05/23/19 22:18	71-43-2	
Bromobenzene	<0.23	ug/L	0.76	0.23	1		05/23/19 22:18	108-86-1	
Bromochloromethane	<0.30	ug/L	0.99	0.30	1		05/23/19 22:18	74-97-5	
Bromodichloromethane	<0.15	ug/L	0.50	0.15	1		05/23/19 22:18	75-27-4	
Bromoform	<0.45	ug/L	1.5	0.45	1		05/23/19 22:18	75-25-2	
Bromomethane	<0.62	ug/L	2.1	0.62	1		05/23/19 22:18	74-83-9	
n-Butylbenzene	<0.14	ug/L	0.47	0.14	1		05/23/19 22:18	104-51-8	
sec-Butylbenzene	<0.20	ug/L	0.68	0.20	1		05/23/19 22:18	135-98-8	
tert-Butylbenzene	<0.14	ug/L	0.46	0.14	1		05/23/19 22:18	98-06-6	
Carbon tetrachloride	<0.20	ug/L	0.67	0.20	1		05/23/19 22:18	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Sample: TRENT POTABLE **Lab ID: 40187902012** Collected: 05/14/19 12:51 Received: 05/18/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Chlorobenzene	<0.12	ug/L	0.40	0.12	1		05/23/19 22:18	108-90-7	
Chloroethane	<0.14	ug/L	0.47	0.14	1		05/23/19 22:18	75-00-3	
Chloroform	<0.31	ug/L	1.0	0.31	1		05/23/19 22:18	67-66-3	
Chloromethane	<0.15	ug/L	0.51	0.15	1		05/23/19 22:18	74-87-3	
2-Chlorotoluene	<0.086	ug/L	0.29	0.086	1		05/23/19 22:18	95-49-8	
4-Chlorotoluene	<0.093	ug/L	0.31	0.093	1		05/23/19 22:18	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	6.5	2.0	1		05/23/19 22:18	96-12-8	N2
Dibromochloromethane	<0.24	ug/L	0.81	0.24	1		05/23/19 22:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.17	ug/L	0.57	0.17	1		05/23/19 22:18	106-93-4	N2
Dibromomethane	<0.23	ug/L	0.76	0.23	1		05/23/19 22:18	74-95-3	
1,2-Dichlorobenzene	<0.18	ug/L	0.58	0.18	1		05/23/19 22:18	95-50-1	
1,3-Dichlorobenzene	<0.14	ug/L	0.46	0.14	1		05/23/19 22:18	541-73-1	
1,4-Dichlorobenzene	<0.086	ug/L	0.29	0.086	1		05/23/19 22:18	106-46-7	
Dichlorodifluoromethane	<0.26	ug/L	0.87	0.26	1		05/23/19 22:18	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		05/23/19 22:18	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	0.45	0.13	1		05/23/19 22:18	107-06-2	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		05/23/19 22:18	75-35-4	
cis-1,2-Dichloroethene	<0.14	ug/L	0.46	0.14	1		05/23/19 22:18	156-59-2	
trans-1,2-Dichloroethene	<0.18	ug/L	0.59	0.18	1		05/23/19 22:18	156-60-5	
1,2-Dichloropropane	<0.19	ug/L	0.64	0.19	1		05/23/19 22:18	78-87-5	
1,3-Dichloropropane	<0.11	ug/L	0.35	0.11	1		05/23/19 22:18	142-28-9	N2
2,2-Dichloropropane	<0.16	ug/L	0.53	0.16	1		05/23/19 22:18	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	0.35	0.10	1		05/23/19 22:18	563-58-6	
cis-1,3-Dichloropropene	<0.21	ug/L	0.69	0.21	1		05/23/19 22:18	10061-01-5	
trans-1,3-Dichloropropene	<0.24	ug/L	0.81	0.24	1		05/23/19 22:18	10061-02-6	
Ethylbenzene	<0.11	ug/L	0.36	0.11	1		05/23/19 22:18	100-41-4	
Hexachloro-1,3-butadiene	<0.28	ug/L	0.92	0.28	1		05/23/19 22:18	87-68-3	
Isopropylbenzene (Cumene)	<0.17	ug/L	0.57	0.17	1		05/23/19 22:18	98-82-8	
p-Isopropyltoluene	<0.21	ug/L	0.71	0.21	1		05/23/19 22:18	99-87-6	N2
Methylene Chloride	<0.44	ug/L	1.5	0.44	1		05/23/19 22:18	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	0.56	0.17	1		05/23/19 22:18	1634-04-4	
Naphthalene	<0.18	ug/L	0.60	0.18	1		05/23/19 22:18	91-20-3	
n-Propylbenzene	<0.13	ug/L	0.44	0.13	1		05/23/19 22:18	103-65-1	
Styrene	<0.18	ug/L	0.59	0.18	1		05/23/19 22:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.12	ug/L	0.39	0.12	1		05/23/19 22:18	630-20-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	0.56	0.17	1		05/23/19 22:18	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		05/23/19 22:18	127-18-4	
Toluene	<0.078	ug/L	0.26	0.078	1		05/23/19 22:18	108-88-3	
1,2,3-Trichlorobenzene	<0.25	ug/L	0.83	0.25	1		05/23/19 22:18	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.64	0.19	1		05/23/19 22:18	120-82-1	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		05/23/19 22:18	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.62	0.19	1		05/23/19 22:18	79-00-5	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		05/23/19 22:18	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	0.70	0.21	1		05/23/19 22:18	75-69-4	
1,2,3-Trichloropropane	<0.39	ug/L	1.3	0.39	1		05/23/19 22:18	96-18-4	
1,2,4-Trimethylbenzene	<0.23	ug/L	0.76	0.23	1		05/23/19 22:18	95-63-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Sample: TRENT POTABLE **Lab ID: 40187902012** Collected: 05/14/19 12:51 Received: 05/18/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,3,5-Trimethylbenzene	<0.15	ug/L	0.49	0.15	1		05/23/19 22:18	108-67-8	N2
Vinyl chloride	<0.086	ug/L	0.29	0.086	1		05/23/19 22:18	75-01-4	
Xylene (Total)	<0.30	ug/L	1.0	0.30	1		05/23/19 22:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	75-125		1		05/23/19 22:18	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		05/23/19 22:18	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		05/23/19 22:18	17060-07-0	

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

QC Batch: 607957

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Analysis Description: 524.2 MSV

Associated Lab Samples: 40187902012

METHOD BLANK: 3286397

Matrix: Water

Associated Lab Samples: 40187902012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.12	0.39	05/23/19 16:24	
1,1,1-Trichloroethane	ug/L	<0.19	0.62	05/23/19 16:24	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	0.56	05/23/19 16:24	
1,1,2-Trichloroethane	ug/L	<0.19	0.62	05/23/19 16:24	
1,1-Dichloroethane	ug/L	<0.16	0.55	05/23/19 16:24	
1,1-Dichloroethene	ug/L	<0.19	0.62	05/23/19 16:24	
1,1-Dichloropropene	ug/L	<0.10	0.35	05/23/19 16:24	
1,2,3-Trichlorobenzene	ug/L	<0.25	0.83	05/23/19 16:24	
1,2,3-Trichloropropane	ug/L	<0.39	1.3	05/23/19 16:24	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.64	05/23/19 16:24	
1,2,4-Trimethylbenzene	ug/L	<0.23	0.76	05/23/19 16:24	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	6.5	05/23/19 16:24	N2
1,2-Dibromoethane (EDB)	ug/L	<0.17	0.57	05/23/19 16:24	N2
1,2-Dichlorobenzene	ug/L	<0.18	0.58	05/23/19 16:24	
1,2-Dichloroethane	ug/L	<0.13	0.45	05/23/19 16:24	
1,2-Dichloropropane	ug/L	<0.19	0.64	05/23/19 16:24	
1,3,5-Trimethylbenzene	ug/L	<0.15	0.49	05/23/19 16:24	N2
1,3-Dichlorobenzene	ug/L	<0.14	0.46	05/23/19 16:24	
1,3-Dichloropropane	ug/L	<0.11	0.35	05/23/19 16:24	N2
1,4-Dichlorobenzene	ug/L	<0.086	0.29	05/23/19 16:24	
2,2-Dichloropropane	ug/L	<0.16	0.53	05/23/19 16:24	
2-Chlorotoluene	ug/L	<0.086	0.29	05/23/19 16:24	
4-Chlorotoluene	ug/L	<0.093	0.31	05/23/19 16:24	
Benzene	ug/L	<0.12	0.41	05/23/19 16:24	
Bromobenzene	ug/L	<0.23	0.76	05/23/19 16:24	
Bromochloromethane	ug/L	<0.30	0.99	05/23/19 16:24	
Bromodichloromethane	ug/L	<0.15	0.50	05/23/19 16:24	
Bromoform	ug/L	<0.45	1.5	05/23/19 16:24	
Bromomethane	ug/L	<0.62	2.1	05/23/19 16:24	
Carbon tetrachloride	ug/L	<0.20	0.67	05/23/19 16:24	
Chlorobenzene	ug/L	<0.12	0.40	05/23/19 16:24	
Chloroethane	ug/L	<0.14	0.47	05/23/19 16:24	
Chloroform	ug/L	<0.31	1.0	05/23/19 16:24	
Chloromethane	ug/L	<0.15	0.51	05/23/19 16:24	
cis-1,2-Dichloroethene	ug/L	<0.14	0.46	05/23/19 16:24	
cis-1,3-Dichloropropene	ug/L	<0.21	0.69	05/23/19 16:24	
Dibromochloromethane	ug/L	<0.24	0.81	05/23/19 16:24	
Dibromomethane	ug/L	<0.23	0.76	05/23/19 16:24	
Dichlorodifluoromethane	ug/L	<0.26	0.87	05/23/19 16:24	
Ethylbenzene	ug/L	<0.11	0.36	05/23/19 16:24	
Hexachloro-1,3-butadiene	ug/L	<0.28	0.92	05/23/19 16:24	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

METHOD BLANK: 3286397

Matrix: Water

Associated Lab Samples: 40187902012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.17	0.57	05/23/19 16:24	
Methyl-tert-butyl ether	ug/L	<0.17	0.56	05/23/19 16:24	
Methylene Chloride	ug/L	0.55J	1.5	05/23/19 16:24	
n-Butylbenzene	ug/L	<0.14	0.47	05/23/19 16:24	
n-Propylbenzene	ug/L	<0.13	0.44	05/23/19 16:24	
Naphthalene	ug/L	<0.18	0.60	05/23/19 16:24	
p-Isopropyltoluene	ug/L	<0.21	0.71	05/23/19 16:24	N2
sec-Butylbenzene	ug/L	<0.20	0.68	05/23/19 16:24	
Styrene	ug/L	<0.18	0.59	05/23/19 16:24	
tert-Butylbenzene	ug/L	<0.14	0.46	05/23/19 16:24	
Tetrachloroethene	ug/L	<0.17	0.56	05/23/19 16:24	
Toluene	ug/L	<0.078	0.26	05/23/19 16:24	
trans-1,2-Dichloroethene	ug/L	<0.18	0.59	05/23/19 16:24	
trans-1,3-Dichloropropene	ug/L	<0.24	0.81	05/23/19 16:24	
Trichloroethene	ug/L	<0.12	0.39	05/23/19 16:24	
Trichlorofluoromethane	ug/L	<0.21	0.70	05/23/19 16:24	
Vinyl chloride	ug/L	<0.086	0.29	05/23/19 16:24	
Xylene (Total)	ug/L	<0.30	1.0	05/23/19 16:24	
1,2-Dichloroethane-d4 (S)	%	103	75-125	05/23/19 16:24	
4-Bromofluorobenzene (S)	%	98	75-125	05/23/19 16:24	
Toluene-d8 (S)	%	101	75-125	05/23/19 16:24	

LABORATORY CONTROL SAMPLE: 3286398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.6	86	70-130	
1,1,1-Trichloroethane	ug/L	10	8.3	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	8.8	88	70-130	
1,1,2-Trichloroethane	ug/L	10	9.6	96	70-130	
1,1-Dichloroethane	ug/L	10	8.6	86	70-130	
1,1-Dichloroethene	ug/L	10	8.7	87	70-130	
1,1-Dichloropropene	ug/L	10	8.5	85	70-130	
1,2,3-Trichlorobenzene	ug/L	10	8.8	88	70-130	
1,2,3-Trichloropropane	ug/L	10	8.7	87	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.6	86	70-130	
1,2,4-Trimethylbenzene	ug/L	10	8.8	88	70-130	
1,2-Dibromo-3-chloropropane	ug/L	25	21.6	86	70-130	N2
1,2-Dibromoethane (EDB)	ug/L	10	8.9	89	70-130	N2
1,2-Dichlorobenzene	ug/L	10	8.6	86	70-130	
1,2-Dichloroethane	ug/L	10	9.1	91	70-130	
1,2-Dichloropropane	ug/L	10	9.3	93	70-130	
1,3,5-Trimethylbenzene	ug/L	10	8.6	86	70-130	N2
1,3-Dichlorobenzene	ug/L	10	8.6	86	70-130	
1,3-Dichloropropane	ug/L	10	8.9	89	70-130	N2

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

LABORATORY CONTROL SAMPLE: 3286398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	8.7	87	70-130	
2,2-Dichloropropane	ug/L	10	8.8	88	70-130	
2-Chlorotoluene	ug/L	10	8.7	87	70-130	
4-Chlorotoluene	ug/L	10	8.7	87	70-130	
Benzene	ug/L	10	8.8	88	70-130	
Bromobenzene	ug/L	10	8.8	88	70-130	
Bromochloromethane	ug/L	10	9.3	93	70-130	
Bromodichloromethane	ug/L	10	8.3	83	70-130	
Bromoform	ug/L	10	8.0	80	70-130	
Bromomethane	ug/L	10	14.8	148	70-130	L3,SS
Carbon tetrachloride	ug/L	10	8.2	82	70-130	
Chlorobenzene	ug/L	10	8.6	86	70-130	
Chloroethane	ug/L	10	12.1	121	70-130	
Chloroform	ug/L	10	8.5	85	70-130	
Chloromethane	ug/L	10	9.1	91	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.3	93	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.5	95	70-130	
Dibromochloromethane	ug/L	10	9.2	92	70-130	
Dibromomethane	ug/L	10	9.3	93	70-130	
Dichlorodifluoromethane	ug/L	10	8.9	89	70-130	
Ethylbenzene	ug/L	10	8.8	88	70-130	
Hexachloro-1,3-butadiene	ug/L	10	8.8	88	70-130	
Isopropylbenzene (Cumene)	ug/L	10	8.8	88	70-130	
Methyl-tert-butyl ether	ug/L	10	9.0	90	70-130	
Methylene Chloride	ug/L	10	9.6	96	70-130	
n-Butylbenzene	ug/L	10	8.0	80	70-130	
n-Propylbenzene	ug/L	10	8.5	85	70-130	
Naphthalene	ug/L	10	8.3	83	70-130	
p-Isopropyltoluene	ug/L	10	8.9	89	70-130	N2
sec-Butylbenzene	ug/L	10	8.8	88	70-130	
Styrene	ug/L	10	8.9	89	70-130	
tert-Butylbenzene	ug/L	10	8.5	85	70-130	
Tetrachloroethene	ug/L	10	8.7	87	70-130	
Toluene	ug/L	10	8.7	87	70-130	
trans-1,2-Dichloroethene	ug/L	10	8.4	84	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.8	98	70-130	
Trichloroethene	ug/L	10	8.8	88	70-130	
Trichlorofluoromethane	ug/L	10	9.2	92	70-130	
Vinyl chloride	ug/L	10	10.4	104	70-130	
Xylene (Total)	ug/L	30	26.4	88	70-130	
1,2-Dichloroethane-d4 (S)	%			104	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			100	75-125	

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3286399		3286400									
Parameter	Units	40187608001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
1,1,1,2-Tetrachloroethane	ug/L	<0.12	10	10	8.5	8.3	85	83	70-130	2	20		
1,1,1-Trichloroethane	ug/L	<0.00019 mg/L	10	10	8.4	8.7	84	87	70-130	3	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.17	10	10	8.3	8.5	83	85	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.00019 mg/L	10	10	8.6	8.9	86	89	70-130	3	20		
1,1-Dichloroethane	ug/L	0.17J	10	10	8.6	8.7	85	86	70-130	1	20		
1,1-Dichloroethene	ug/L	0.00090 mg/L	10	10	10.2	9.8	93	89	70-130	4	20		
1,1-Dichloropropene	ug/L	<0.10	10	10	8.8	8.9	88	89	70-130	1	20		
1,2,3-Trichlorobenzene	ug/L	<0.25	10	10	8.7	9.2	87	92	70-130	5	20		
1,2,3-Trichloropropane	ug/L	<0.39	10	10	8.5	8.3	85	83	70-130	3	20		
1,2,4-Trichlorobenzene	ug/L	<0.00019 mg/L	10	10	8.2	8.6	82	86	70-130	5	20		
1,2,4-Trimethylbenzene	ug/L	<0.23	10	10	8.6	9.5	86	95	70-130	10	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.0	25	25	20.9	20.2	84	81	70-130	3	20	N2	
1,2-Dibromoethane (EDB)	ug/L	<0.17	10	10	7.9	8.2	79	82	70-130	4	20	N2	
1,2-Dichlorobenzene	ug/L	<0.00018 mg/L	10	10	8.2	9.1	82	91	70-130	10	20		
1,2-Dichloroethane	ug/L	<0.00013 mg/L	10	10	8.4	8.5	84	85	70-130	2	20		
1,2-Dichloropropane	ug/L	<0.00019 mg/L	10	10	8.9	9.0	89	90	70-130	1	20		
1,3,5-Trimethylbenzene	ug/L	<0.15	10	10	8.7	9.6	87	96	70-130	10	20	N2	
1,3-Dichlorobenzene	ug/L	<0.14	10	10	8.4	8.9	84	89	70-130	6	20		
1,3-Dichloropropane	ug/L	<0.11	10	10	8.1	8.6	81	86	70-130	5	20	N2	
1,4-Dichlorobenzene	ug/L	<0.000086 mg/L	10	10	8.4	8.8	84	88	70-130	5	20		
2,2-Dichloropropane	ug/L	<0.16	10	10	8.9	8.4	89	84	70-130	6	20		
2-Chlorotoluene	ug/L	<0.086	10	10	8.5	9.4	85	94	70-130	10	20		
4-Chlorotoluene	ug/L	<0.093	10	10	8.2	9.2	82	92	70-130	11	20		
Benzene	ug/L	<0.00012 mg/L	10	10	8.5	8.7	85	87	70-130	2	20		
Bromobenzene	ug/L	<0.23	10	10	8.2	8.8	82	88	70-130	7	20		
Bromochloromethane	ug/L	<0.30	10	10	8.0	8.5	80	85	70-130	5	20		
Bromodichloromethane	ug/L	<0.00015 mg/L	10	10	8.1	8.0	81	80	70-130	1	20		
Bromoform	ug/L	<0.45	10	10	7.9	7.8	79	78	70-130	2	20		
Bromomethane	ug/L	<0.00062 mg/L	10	10	14.3	14.1	143	141	70-130	1	20	M0,SS	
Carbon tetrachloride	ug/L	<0.00020 mg/L	10	10	8.6	8.9	86	89	70-130	3	20		
Chlorobenzene	ug/L	<0.12	10	10	8.5	8.8	85	88	70-130	3	20		
Chloroethane	ug/L	<0.14	10	10	11.8	14.8	118	148	70-130	22	20	M1,R1	
Chloroform	ug/L	<0.00031 mg/L	10	10	8.0	7.9	80	79	70-130	1	20		
Chloromethane	ug/L	<0.15	10	10	9.7	9.6	97	96	70-130	1	20		
cis-1,2-Dichloroethene	ug/L	0.00072 mg/L	10	10	9.7	9.6	90	89	70-130	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Parameter	Units	3286399		3286400		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40187608001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
cis-1,3-Dichloropropene	ug/L	<0.21	10	10	8.4	8.6	84	86	70-130	2	20		
Dibromochloromethane	ug/L	<0.24	10	10	8.3	8.8	83	88	70-130	6	20		
Dibromomethane	ug/L	<0.23	10	10	8.5	9.3	85	93	70-130	9	20		
Dichlorodifluoromethane	ug/L	<0.26	10	10	11.0	10.8	110	108	70-130	1	20		
Ethylbenzene	ug/L	<0.00011	10	10	8.8	9.4	88	94	70-130	6	20		
Hexachloro-1,3-butadiene	ug/L	<0.28	10	10	9.5	9.1	95	91	70-130	4	20		
Isopropylbenzene (Cumene)	ug/L	<0.17	10	10	8.8	9.8	88	98	70-130	11	20		
Methyl-tert-butyl ether	ug/L	<0.00017	10	10	8.6	8.4	86	84	70-130	2	20		
Methylene Chloride	ug/L	<0.00044	10	10	8.3	8.4	83	84	70-130	1	20		
n-Butylbenzene	ug/L	<0.14	10	10	8.8	8.9	88	89	70-130	1	20		
n-Propylbenzene	ug/L	<0.13	10	10	8.6	9.6	86	96	70-130	11	20		
Naphthalene	ug/L	<0.18	10	10	7.9	8.6	79	86	70-130	8	20		
p-Isopropyltoluene	ug/L	<0.21	10	10	9.3	9.7	93	97	70-130	5	20	N2	
sec-Butylbenzene	ug/L	<0.20	10	10	9.1	9.5	91	95	70-130	4	20		
Styrene	ug/L	<0.00018	10	10	8.7	9.4	87	94	70-130	8	20		
tert-Butylbenzene	ug/L	<0.14	10	10	8.8	9.6	88	96	70-130	9	20		
Tetrachloroethene	ug/L	<0.00017	10	10	9.3	9.9	93	99	70-130	7	20		
Toluene	ug/L	<0.000078	10	10	8.4	8.8	84	88	70-130	5	20		
trans-1,2-Dichloroethene	ug/L	<0.00018	10	10	8.9	8.8	89	88	70-130	0	20		
trans-1,3-Dichloropropene	ug/L	<0.24	10	10	8.8	8.9	88	89	70-130	1	20		
Trichloroethene	ug/L	0.00048	10	10	9.3	9.5	89	90	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.21	10	10	11.0	11.1	110	111	70-130	1	20		
Vinyl chloride	ug/L	<0.000086	10	10	12.2	12.4	122	124	70-130	2	20		
Xylene (Total)	ug/L	<0.00030	30	30	26.8	28.5	89	95	70-130	6	20		
1,2-Dichloroethane-d4 (S)	%						99	102	75-125				
4-Bromofluorobenzene (S)	%						101	102	75-125				
Toluene-d8 (S)	%						99	98	75-125				

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

QC Batch: 321760 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40187902001, 40187902002, 40187902003, 40187902004, 40187902010

METHOD BLANK: 1869009 Matrix: Water
Associated Lab Samples: 40187902001, 40187902002, 40187902003, 40187902004, 40187902010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/21/19 06:53	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/21/19 06:53	
Benzene	ug/L	<0.25	1.0	05/21/19 06:53	
Ethylbenzene	ug/L	<0.22	1.0	05/21/19 06:53	
m&p-Xylene	ug/L	<0.47	2.0	05/21/19 06:53	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/21/19 06:53	
Naphthalene	ug/L	<1.2	5.0	05/21/19 06:53	
o-Xylene	ug/L	<0.26	1.0	05/21/19 06:53	
Toluene	ug/L	<0.17	5.0	05/21/19 06:53	
4-Bromofluorobenzene (S)	%	93	70-130	05/21/19 06:53	
Dibromofluoromethane (S)	%	108	70-130	05/21/19 06:53	
Toluene-d8 (S)	%	97	70-130	05/21/19 06:53	

LABORATORY CONTROL SAMPLE: 1869010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	54.3	109	70-130	
Ethylbenzene	ug/L	50	54.3	109	80-124	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	41.7	83	54-137	
o-Xylene	ug/L	50	55.2	110	70-130	
Toluene	ug/L	50	53.2	106	80-126	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1869340 1869341

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40187902010 Result	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	<0.25	50	50	53.3	54.1	107	108	70-130	2	20
Ethylbenzene	ug/L	<0.22	50	50	53.5	54.3	107	109	80-125	2	20
m&p-Xylene	ug/L	<0.47	100	100	110	109	110	109	70-130	0	20
Methyl-tert-butyl ether	ug/L	<1.2	50	50	40.7	42.2	81	84	51-145	4	20
o-Xylene	ug/L	<0.26	50	50	53.8	55.1	108	110	70-130	2	20
Toluene	ug/L	<0.17	50	50	52.5	53.2	105	106	80-131	1	20
4-Bromofluorobenzene (S)	%						101	99	70-130		
Dibromofluoromethane (S)	%						107	109	70-130		

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1869340 1869341												
Parameter	Units	40187902010 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%							96	96	70-130		

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION
Pace Project No.: 40187902

QC Batch: 321761 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40187902011

METHOD BLANK: 1869011 Matrix: Water
Associated Lab Samples: 40187902011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/20/19 15:17	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/20/19 15:17	
Benzene	ug/L	<0.25	1.0	05/20/19 15:17	
Ethylbenzene	ug/L	<0.22	1.0	05/20/19 15:17	
m&p-Xylene	ug/L	<0.47	2.0	05/20/19 15:17	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/20/19 15:17	
Naphthalene	ug/L	<1.2	5.0	05/20/19 15:17	
o-Xylene	ug/L	<0.26	1.0	05/20/19 15:17	
Toluene	ug/L	<0.17	5.0	05/20/19 15:17	
4-Bromofluorobenzene (S)	%	89	70-130	05/20/19 15:17	
Dibromofluoromethane (S)	%	109	70-130	05/20/19 15:17	
Toluene-d8 (S)	%	102	70-130	05/20/19 15:17	

LABORATORY CONTROL SAMPLE: 1869012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	56.2	112	70-130	
Ethylbenzene	ug/L	50	56.3	113	80-124	
m&p-Xylene	ug/L	100	116	116	70-130	
Methyl-tert-butyl ether	ug/L	50	52.0	104	54-137	
o-Xylene	ug/L	50	56.6	113	70-130	
Toluene	ug/L	50	55.5	111	80-126	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			110	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1869013 1869014

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40187826006 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Benzene	ug/L	<1.0	50	50	57.1	58.1	114	116	70-130	2	20	
Ethylbenzene	ug/L	<1.0	50	50	53.2	54.3	106	109	80-125	2	20	
m&p-Xylene	ug/L	<2.0	100	100	103	110	103	110	70-130	7	20	
Methyl-tert-butyl ether	ug/L	<4.2	50	50	52.8	53.6	106	107	51-145	1	20	
o-Xylene	ug/L	<1.0	50	50	52.0	53.7	104	107	70-130	3	20	
Toluene	ug/L	<5.0	50	50	53.3	53.9	107	108	80-131	1	20	
4-Bromofluorobenzene (S)	%						95	94	70-130			
Dibromofluoromethane (S)	%						109	109	70-130			

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1869013 1869014												
Parameter	Units	40187826006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

QC Batch: 322044 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40187902005, 40187902006, 40187902007, 40187902009

METHOD BLANK: 1870090 Matrix: Water
Associated Lab Samples: 40187902005, 40187902006, 40187902007, 40187902009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/22/19 13:01	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/22/19 13:01	
Benzene	ug/L	<0.25	1.0	05/22/19 13:01	
Ethylbenzene	ug/L	<0.22	1.0	05/22/19 13:01	
m&p-Xylene	ug/L	<0.47	2.0	05/22/19 13:01	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/22/19 13:01	
Naphthalene	ug/L	<1.2	5.0	05/22/19 13:01	
o-Xylene	ug/L	<0.26	1.0	05/22/19 13:01	
Toluene	ug/L	<0.17	5.0	05/22/19 13:01	
4-Bromofluorobenzene (S)	%	97	70-130	05/22/19 13:01	
Dibromofluoromethane (S)	%	94	70-130	05/22/19 13:01	
Toluene-d8 (S)	%	98	70-130	05/22/19 13:01	

LABORATORY CONTROL SAMPLE: 1870091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.6	99	70-130	
Ethylbenzene	ug/L	50	50.8	102	80-124	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	48.9	98	54-137	
o-Xylene	ug/L	50	47.0	94	70-130	
Toluene	ug/L	50	51.2	102	80-126	
4-Bromofluorobenzene (S)	%			86	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1870257 1870258

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40187995001 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<0.25	50	50	50.7	49.2	101	98	70-130	3	20
Ethylbenzene	ug/L	<0.22	50	50	51.9	52.0	104	104	80-125	0	20
m&p-Xylene	ug/L	<0.47	100	100	103	108	103	108	70-130	5	20
Methyl-tert-butyl ether	ug/L	<1.2	50	50	48.1	48.6	96	97	51-145	1	20
o-Xylene	ug/L	<0.26	50	50	50.0	51.2	100	102	70-130	2	20
Toluene	ug/L	<0.17	50	50	52.6	51.0	105	102	80-131	3	20
4-Bromofluorobenzene (S)	%						88	94	70-130		
Dibromofluoromethane (S)	%						101	99	70-130		

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1870257												1870258	
Parameter	Units	40187995001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Toluene-d8 (S)	%						99	99	70-130				

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION
Pace Project No.: 40187902

QC Batch: 322156 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40187902008

METHOD BLANK: 1870694 Matrix: Water
Associated Lab Samples: 40187902008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/23/19 06:20	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/23/19 06:20	
Benzene	ug/L	<0.25	1.0	05/23/19 06:20	
Ethylbenzene	ug/L	<0.22	1.0	05/23/19 06:20	
m&p-Xylene	ug/L	<0.47	2.0	05/23/19 06:20	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/23/19 06:20	
Naphthalene	ug/L	<1.2	5.0	05/23/19 06:20	
o-Xylene	ug/L	<0.26	1.0	05/23/19 06:20	
Toluene	ug/L	<0.17	5.0	05/23/19 06:20	
4-Bromofluorobenzene (S)	%	88	70-130	05/23/19 06:20	
Dibromofluoromethane (S)	%	110	70-130	05/23/19 06:20	
Toluene-d8 (S)	%	103	70-130	05/23/19 06:20	

LABORATORY CONTROL SAMPLE: 1870695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	54.5	109	70-130	
Ethylbenzene	ug/L	50	54.0	108	80-124	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	55.7	111	54-137	
o-Xylene	ug/L	50	54.3	109	70-130	
Toluene	ug/L	50	52.5	105	80-126	
4-Bromofluorobenzene (S)	%			93	70-130	
Dibromofluoromethane (S)	%			109	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1871132 1871133

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40188010006 Result	Spike Conc.	Spike Conc.	MS Result								
Benzene	ug/L	<0.25	50	50	57.9	59.4	116	119	70-130	3	20		
Ethylbenzene	ug/L	<0.22	50	50	57.8	59.7	116	119	80-125	3	20		
m&p-Xylene	ug/L	<0.47	100	100	117	122	117	122	70-130	5	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	57.7	57.8	115	116	51-145	0	20		
o-Xylene	ug/L	<0.26	50	50	58.4	59.4	117	119	70-130	2	20		
Toluene	ug/L	<0.17	50	50	56.6	58.8	113	118	80-131	4	20		
4-Bromofluorobenzene (S)	%						97	100	70-130				
Dibromofluoromethane (S)	%						108	110	70-130				

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1871132 1871133												
Parameter	Units	40188010006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%							101	102	70-130		

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QUALIFIERS

Project: 6510 MOOSE JUNCTION
Pace Project No.: 40187902

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above LOD.
J - Estimated concentration at or above the LOD and below the LOQ.
LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.
LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay
PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1 RPD value was outside control limits.
SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40187902

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40187902012	TRENT POTABLE	EPA 524.2	607957		
40187902001	MW1	EPA 8260	321760		
40187902002	MW2	EPA 8260	321760		
40187902003	MW3	EPA 8260	321760		
40187902004	MW4	EPA 8260	321760		
40187902005	MW5R	EPA 8260	322044		
40187902006	MW6	EPA 8260	322044		
40187902007	MW7	EPA 8260	322044		
40187902008	MW8	EPA 8260	322156		
40187902009	MW9	EPA 8260	322044		
40187902010	MW10	EPA 8260	321760		
40187902011	ROW	EPA 8260	321761		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 902
Green Bay, WI 54302

Client Name: REL

Project # 60187902

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

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

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

Pace Lab #	Glass							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN		
001																	3																		2.5 / 5 / 10
002																	3																		2.5 / 5 / 10
003																	3																		2.5 / 5 / 10
004																	3																		2.5 / 5 / 10
005																	3																		2.5 / 5 / 10
006																	3																		2.5 / 5 / 10
007																	3																		2.5 / 5 / 10
008																	3																		2.5 / 5 / 10
009																	3																		2.5 / 5 / 10
010																	3																		2.5 / 5 / 10
011																	3																		2.5 / 5 / 10
012																	3																		2.5 / 5 / 10
013																																			2.5 / 5 / 10
014																																			2.5 / 5 / 10
015																																			2.5 / 5 / 10
016																																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

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

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:



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)

Project #:

WO#: 40187902



Client Name: REL

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

Tracking #: 2060822-1

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

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

Packing Material: Bubble Wrap Bubble Bags None Other paper

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

Cooler Temperature Uncorr: 601 /Corr: _____

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

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

Person examining contents:
Date: 5/18/19
Initials: RL

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. old time 100
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>5/18/19</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Project Manager Review: [Signature]

Date: 5-20-19

September 30, 2019

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

RE: Project: 6510 MOOSE JUNCTION
Pace Project No.: 40195701

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2019. 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40195701001	MW1	Water	09/16/19 13:14	09/21/19 10:00
40195701002	MW2	Water	09/16/19 14:10	09/21/19 10:00
40195701003	MW3	Water	09/16/19 12:50	09/21/19 10:00
40195701004	MW4	Water	09/16/19 14:00	09/21/19 10:00
40195701005	MW5R	Water	09/16/19 13:30	09/21/19 10:00
40195701006	MW6	Water	09/16/19 13:15	09/21/19 10:00
40195701007	MW7	Water	09/16/19 13:45	09/21/19 10:00
40195701008	MW8	Water	09/16/19 13:52	09/21/19 10:00
40195701009	MW9	Water	09/16/19 13:29	09/21/19 10:00
40195701010	MW10	Water	09/16/19 13:44	09/21/19 10:00
40195701011	MOOSE JCT POTABLE	Water	09/16/19 13:02	09/21/19 10:00

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SAMPLE ANALYTE COUNT

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40195701001	MW1	EPA 8260	LAP	12	PASI-G
40195701002	MW2	EPA 8260	LAP	12	PASI-G
40195701003	MW3	EPA 8260	HNW	12	PASI-G
40195701004	MW4	EPA 8260	HNW	12	PASI-G
40195701005	MW5R	EPA 8260	HNW	12	PASI-G
40195701006	MW6	EPA 8260	HNW	12	PASI-G
40195701007	MW7	EPA 8260	HNW	12	PASI-G
40195701008	MW8	EPA 8260	HNW	12	PASI-G
40195701009	MW9	EPA 8260	HNW	12	PASI-G
40195701010	MW10	EPA 8260	HNW	12	PASI-G
40195701011	MOOSE JCT POTABLE	EPA 524.2	DS2	62	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Sample: MW1 **Lab ID: 40195701001** Collected: 09/16/19 13:14 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/25/19 11:41	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/25/19 11:41	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/25/19 11:41	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/25/19 11:41	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/25/19 11:41	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/25/19 11:41	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/25/19 11:41	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/25/19 11:41	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/25/19 11:41	95-47-6	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		09/25/19 11:41	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		09/25/19 11:41	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		09/25/19 11:41	460-00-4	

Sample: MW2 **Lab ID: 40195701002** Collected: 09/16/19 14:10 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	310	ug/L	10.0	2.5	10		09/26/19 10:50	71-43-2	
Ethylbenzene	396	ug/L	10.0	2.2	10		09/26/19 10:50	100-41-4	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		09/26/19 10:50	1634-04-4	
Naphthalene	54.2	ug/L	50.0	11.8	10		09/26/19 10:50	91-20-3	
Toluene	175	ug/L	50.0	1.7	10		09/26/19 10:50	108-88-3	
1,2,4-Trimethylbenzene	460	ug/L	28.0	8.4	10		09/26/19 10:50	95-63-6	
1,3,5-Trimethylbenzene	132	ug/L	29.1	8.7	10		09/26/19 10:50	108-67-8	
m&p-Xylene	1910	ug/L	20.0	4.7	10		09/26/19 10:50	179601-23-1	
o-Xylene	630	ug/L	10.0	2.6	10		09/26/19 10:50	95-47-6	
Surrogates									
Dibromofluoromethane (S)	88	%	70-130		10		09/26/19 10:50	1868-53-7	
Toluene-d8 (S)	104	%	70-130		10		09/26/19 10:50	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		10		09/26/19 10:50	460-00-4	

Sample: MW3 **Lab ID: 40195701003** Collected: 09/16/19 12:50 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/26/19 07:09	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/26/19 07:09	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/26/19 07:09	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/26/19 07:09	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/26/19 07:09	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW3 Lab ID: 40195701003 Collected: 09/16/19 12:50 Received: 09/21/19 10:00 Matrix: Water									
Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/26/19 07:09	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/26/19 07:09	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/26/19 07:09	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/26/19 07:09	95-47-6	
Surrogates									
Dibromofluoromethane (S)	107	%	70-130		1		09/26/19 07:09	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		09/26/19 07:09	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		09/26/19 07:09	460-00-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW4 Lab ID: 40195701004 Collected: 09/16/19 14:00 Received: 09/21/19 10:00 Matrix: Water									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/26/19 07:32	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/26/19 07:32	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/26/19 07:32	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/26/19 07:32	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/26/19 07:32	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/26/19 07:32	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/26/19 07:32	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/26/19 07:32	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/26/19 07:32	95-47-6	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		1		09/26/19 07:32	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		09/26/19 07:32	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		09/26/19 07:32	460-00-4	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW5R Lab ID: 40195701005 Collected: 09/16/19 13:30 Received: 09/21/19 10:00 Matrix: Water									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/26/19 07:54	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/26/19 07:54	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/26/19 07:54	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/26/19 07:54	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/26/19 07:54	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/26/19 07:54	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/26/19 07:54	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/26/19 07:54	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/26/19 07:54	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Sample: MW5R **Lab ID: 40195701005** Collected: 09/16/19 13:30 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	107	%	70-130		1		09/26/19 07:54	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		09/26/19 07:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		09/26/19 07:54	460-00-4	

Sample: MW6 **Lab ID: 40195701006** Collected: 09/16/19 13:15 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/26/19 08:17	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/26/19 08:17	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/26/19 08:17	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/26/19 08:17	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/26/19 08:17	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/26/19 08:17	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/26/19 08:17	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/26/19 08:17	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/26/19 08:17	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	107	%	70-130		1		09/26/19 08:17	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		09/26/19 08:17	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		09/26/19 08:17	460-00-4	

Sample: MW7 **Lab ID: 40195701007** Collected: 09/16/19 13:45 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/26/19 08:39	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/26/19 08:39	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/26/19 08:39	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/26/19 08:39	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/26/19 08:39	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/26/19 08:39	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/26/19 08:39	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/26/19 08:39	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/26/19 08:39	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	108	%	70-130		1		09/26/19 08:39	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		09/26/19 08:39	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		09/26/19 08:39	460-00-4	

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Sample: MW8 **Lab ID: 40195701008** Collected: 09/16/19 13:52 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/26/19 09:02	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/26/19 09:02	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/26/19 09:02	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/26/19 09:02	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/26/19 09:02	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/26/19 09:02	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/26/19 09:02	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/26/19 09:02	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/26/19 09:02	95-47-6	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		1		09/26/19 09:02	1868-53-7	HS,pH
Toluene-d8 (S)	99	%	70-130		1		09/26/19 09:02	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		09/26/19 09:02	460-00-4	

Sample: MW9 **Lab ID: 40195701009** Collected: 09/16/19 13:29 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/26/19 09:24	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/26/19 09:24	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/26/19 09:24	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/26/19 09:24	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/26/19 09:24	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/26/19 09:24	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/26/19 09:24	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/26/19 09:24	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/26/19 09:24	95-47-6	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		1		09/26/19 09:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		09/26/19 09:24	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		09/26/19 09:24	460-00-4	

Sample: MW10 **Lab ID: 40195701010** Collected: 09/16/19 13:44 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/26/19 09:47	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/26/19 09:47	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/26/19 09:47	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/26/19 09:47	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/26/19 09:47	108-88-3	

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Sample: MW10 **Lab ID: 40195701010** Collected: 09/16/19 13:44 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/26/19 09:47	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/26/19 09:47	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/26/19 09:47	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/26/19 09:47	95-47-6	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		1		09/26/19 09:47	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		09/26/19 09:47	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		09/26/19 09:47	460-00-4	

Sample: MOOSE JCT POTABLE **Lab ID: 40195701011** Collected: 09/16/19 13:02 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV Analytical Method: EPA 524.2									
Benzene	<0.12	ug/L	0.41	0.12	1		09/27/19 18:49	71-43-2	
Bromobenzene	<0.23	ug/L	0.76	0.23	1		09/27/19 18:49	108-86-1	
Bromochloromethane	<0.30	ug/L	0.99	0.30	1		09/27/19 18:49	74-97-5	
Bromodichloromethane	<0.15	ug/L	0.50	0.15	1		09/27/19 18:49	75-27-4	
Bromoform	<0.45	ug/L	1.5	0.45	1		09/27/19 18:49	75-25-2	
Bromomethane	<0.62	ug/L	2.1	0.62	1		09/27/19 18:49	74-83-9	
n-Butylbenzene	<0.14	ug/L	0.47	0.14	1		09/27/19 18:49	104-51-8	
sec-Butylbenzene	<0.20	ug/L	0.68	0.20	1		09/27/19 18:49	135-98-8	
tert-Butylbenzene	<0.14	ug/L	0.46	0.14	1		09/27/19 18:49	98-06-6	
Carbon tetrachloride	<0.20	ug/L	0.67	0.20	1		09/27/19 18:49	56-23-5	
Chlorobenzene	<0.12	ug/L	0.40	0.12	1		09/27/19 18:49	108-90-7	
Chloroethane	<0.14	ug/L	0.47	0.14	1		09/27/19 18:49	75-00-3	
Chloroform	<0.31	ug/L	1.0	0.31	1		09/27/19 18:49	67-66-3	
Chloromethane	<0.15	ug/L	0.51	0.15	1		09/27/19 18:49	74-87-3	
2-Chlorotoluene	<0.086	ug/L	0.29	0.086	1		09/27/19 18:49	95-49-8	
4-Chlorotoluene	<0.093	ug/L	0.31	0.093	1		09/27/19 18:49	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	6.5	2.0	1		09/27/19 18:49	96-12-8	N2
Dibromochloromethane	<0.24	ug/L	0.81	0.24	1		09/27/19 18:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.17	ug/L	0.57	0.17	1		09/27/19 18:49	106-93-4	N2
Dibromomethane	<0.23	ug/L	0.76	0.23	1		09/27/19 18:49	74-95-3	
1,2-Dichlorobenzene	<0.18	ug/L	0.58	0.18	1		09/27/19 18:49	95-50-1	
1,3-Dichlorobenzene	<0.14	ug/L	0.46	0.14	1		09/27/19 18:49	541-73-1	
1,4-Dichlorobenzene	<0.086	ug/L	0.29	0.086	1		09/27/19 18:49	106-46-7	
Dichlorodifluoromethane	<0.26	ug/L	0.87	0.26	1		09/27/19 18:49	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		09/27/19 18:49	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	0.45	0.13	1		09/27/19 18:49	107-06-2	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		09/27/19 18:49	75-35-4	
cis-1,2-Dichloroethene	<0.14	ug/L	0.46	0.14	1		09/27/19 18:49	156-59-2	
trans-1,2-Dichloroethene	<0.18	ug/L	0.59	0.18	1		09/27/19 18:49	156-60-5	
1,2-Dichloropropane	<0.19	ug/L	0.64	0.19	1		09/27/19 18:49	78-87-5	

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ANALYTICAL RESULTS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Sample: MOOSE JCT POTABLE **Lab ID: 40195701011** Collected: 09/16/19 13:02 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV Analytical Method: EPA 524.2									
1,3-Dichloropropane	<0.11	ug/L	0.35	0.11	1		09/27/19 18:49	142-28-9	N2
2,2-Dichloropropane	<0.16	ug/L	0.53	0.16	1		09/27/19 18:49	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	0.35	0.10	1		09/27/19 18:49	563-58-6	
cis-1,3-Dichloropropene	<0.21	ug/L	0.69	0.21	1		09/27/19 18:49	10061-01-5	
trans-1,3-Dichloropropene	<0.24	ug/L	0.81	0.24	1		09/27/19 18:49	10061-02-6	
Ethylbenzene	<0.11	ug/L	0.36	0.11	1		09/27/19 18:49	100-41-4	
Hexachloro-1,3-butadiene	<0.28	ug/L	0.92	0.28	1		09/27/19 18:49	87-68-3	
Isopropylbenzene (Cumene)	<0.17	ug/L	0.57	0.17	1		09/27/19 18:49	98-82-8	
p-Isopropyltoluene	<0.21	ug/L	0.71	0.21	1		09/27/19 18:49	99-87-6	N2
Methylene Chloride	<0.44	ug/L	1.5	0.44	1		09/27/19 18:49	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	0.56	0.17	1		09/27/19 18:49	1634-04-4	
Naphthalene	<0.18	ug/L	0.60	0.18	1		09/27/19 18:49	91-20-3	
n-Propylbenzene	<0.13	ug/L	0.44	0.13	1		09/27/19 18:49	103-65-1	
Styrene	<0.18	ug/L	0.59	0.18	1		09/27/19 18:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.12	ug/L	0.39	0.12	1		09/27/19 18:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	0.56	0.17	1		09/27/19 18:49	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		09/27/19 18:49	127-18-4	
Toluene	<0.078	ug/L	0.26	0.078	1		09/27/19 18:49	108-88-3	
1,2,3-Trichlorobenzene	<0.25	ug/L	0.83	0.25	1		09/27/19 18:49	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.64	0.19	1		09/27/19 18:49	120-82-1	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		09/27/19 18:49	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.62	0.19	1		09/27/19 18:49	79-00-5	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		09/27/19 18:49	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	0.70	0.21	1		09/27/19 18:49	75-69-4	
1,2,3-Trichloropropane	<0.39	ug/L	1.3	0.39	1		09/27/19 18:49	96-18-4	
1,2,4-Trimethylbenzene	<0.23	ug/L	0.76	0.23	1		09/27/19 18:49	95-63-6	
1,3,5-Trimethylbenzene	<0.15	ug/L	0.49	0.15	1		09/27/19 18:49	108-67-8	N2
Vinyl chloride	<0.086	ug/L	0.29	0.086	1		09/27/19 18:49	75-01-4	
Xylene (Total)	<0.30	ug/L	1.0	0.30	1		09/27/19 18:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	75-125		1		09/27/19 18:49	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		09/27/19 18:49	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		09/27/19 18:49	17060-07-0	

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION
Pace Project No.: 40195701

QC Batch: 635041 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40195701011

METHOD BLANK: 3422603 Matrix: Water
Associated Lab Samples: 40195701011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.12	0.39	09/27/19 17:14	
1,1,1-Trichloroethane	ug/L	<0.19	0.62	09/27/19 17:14	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	0.56	09/27/19 17:14	
1,1,2-Trichloroethane	ug/L	<0.19	0.62	09/27/19 17:14	
1,1-Dichloroethane	ug/L	<0.16	0.55	09/27/19 17:14	
1,1-Dichloroethene	ug/L	<0.19	0.62	09/27/19 17:14	
1,1-Dichloropropene	ug/L	<0.10	0.35	09/27/19 17:14	
1,2,3-Trichlorobenzene	ug/L	<0.25	0.83	09/27/19 17:14	
1,2,3-Trichloropropane	ug/L	<0.39	1.3	09/27/19 17:14	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.64	09/27/19 17:14	
1,2,4-Trimethylbenzene	ug/L	<0.23	0.76	09/27/19 17:14	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	6.5	09/27/19 17:14	N2
1,2-Dibromoethane (EDB)	ug/L	<0.17	0.57	09/27/19 17:14	N2
1,2-Dichlorobenzene	ug/L	<0.18	0.58	09/27/19 17:14	
1,2-Dichloroethane	ug/L	<0.13	0.45	09/27/19 17:14	MN
1,2-Dichloropropane	ug/L	<0.19	0.64	09/27/19 17:14	
1,3,5-Trimethylbenzene	ug/L	<0.15	0.49	09/27/19 17:14	N2
1,3-Dichlorobenzene	ug/L	<0.14	0.46	09/27/19 17:14	
1,3-Dichloropropane	ug/L	<0.11	0.35	09/27/19 17:14	N2
1,4-Dichlorobenzene	ug/L	<0.086	0.29	09/27/19 17:14	
2,2-Dichloropropane	ug/L	<0.16	0.53	09/27/19 17:14	
2-Chlorotoluene	ug/L	<0.086	0.29	09/27/19 17:14	
4-Chlorotoluene	ug/L	<0.093	0.31	09/27/19 17:14	
Benzene	ug/L	<0.12	0.41	09/27/19 17:14	
Bromobenzene	ug/L	<0.23	0.76	09/27/19 17:14	
Bromochloromethane	ug/L	<0.30	0.99	09/27/19 17:14	
Bromodichloromethane	ug/L	<0.15	0.50	09/27/19 17:14	
Bromoform	ug/L	<0.45	1.5	09/27/19 17:14	
Bromomethane	ug/L	<0.62	2.1	09/27/19 17:14	
Carbon tetrachloride	ug/L	<0.20	0.67	09/27/19 17:14	
Chlorobenzene	ug/L	<0.12	0.40	09/27/19 17:14	
Chloroethane	ug/L	<0.14	0.47	09/27/19 17:14	
Chloroform	ug/L	<0.31	1.0	09/27/19 17:14	MN
Chloromethane	ug/L	<0.15	0.51	09/27/19 17:14	
cis-1,2-Dichloroethene	ug/L	<0.14	0.46	09/27/19 17:14	
cis-1,3-Dichloropropene	ug/L	<0.21	0.69	09/27/19 17:14	
Dibromochloromethane	ug/L	<0.24	0.81	09/27/19 17:14	
Dibromomethane	ug/L	<0.23	0.76	09/27/19 17:14	
Dichlorodifluoromethane	ug/L	<0.26	0.87	09/27/19 17:14	
Ethylbenzene	ug/L	<0.11	0.36	09/27/19 17:14	
Hexachloro-1,3-butadiene	ug/L	<0.28	0.92	09/27/19 17:14	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

METHOD BLANK: 3422603

Matrix: Water

Associated Lab Samples: 40195701011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.17	0.57	09/27/19 17:14	
Methyl-tert-butyl ether	ug/L	<0.17	0.56	09/27/19 17:14	
Methylene Chloride	ug/L	<0.44	1.5	09/27/19 17:14	
n-Butylbenzene	ug/L	<0.14	0.47	09/27/19 17:14	
n-Propylbenzene	ug/L	<0.13	0.44	09/27/19 17:14	
Naphthalene	ug/L	<0.18	0.60	09/27/19 17:14	
p-Isopropyltoluene	ug/L	<0.21	0.71	09/27/19 17:14	N2
sec-Butylbenzene	ug/L	<0.20	0.68	09/27/19 17:14	
Styrene	ug/L	<0.18	0.59	09/27/19 17:14	
tert-Butylbenzene	ug/L	<0.14	0.46	09/27/19 17:14	
Tetrachloroethene	ug/L	<0.17	0.56	09/27/19 17:14	
Toluene	ug/L	<0.078	0.26	09/27/19 17:14	
trans-1,2-Dichloroethene	ug/L	<0.18	0.59	09/27/19 17:14	
trans-1,3-Dichloropropene	ug/L	<0.24	0.81	09/27/19 17:14	
Trichloroethene	ug/L	<0.12	0.39	09/27/19 17:14	
Trichlorofluoromethane	ug/L	<0.21	0.70	09/27/19 17:14	
Vinyl chloride	ug/L	<0.086	0.29	09/27/19 17:14	
Xylene (Total)	ug/L	<0.30	1.0	09/27/19 17:14	
1,2-Dichloroethane-d4 (S)	%	98	75-125	09/27/19 17:14	
4-Bromofluorobenzene (S)	%	97	75-125	09/27/19 17:14	
Toluene-d8 (S)	%	100	75-125	09/27/19 17:14	

LABORATORY CONTROL SAMPLE: 3422604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	101	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	96	70-130	
1,1,2-Trichloroethane	ug/L	20	19.5	97	70-130	
1,1-Dichloroethane	ug/L	20	17.9	89	70-130	
1,1-Dichloroethene	ug/L	20	19.2	96	70-130	
1,1-Dichloropropene	ug/L	20	19.7	99	70-130	
1,2,3-Trichlorobenzene	ug/L	20	20.1	101	70-130	
1,2,3-Trichloropropane	ug/L	20	20.3	102	70-130	
1,2,4-Trichlorobenzene	ug/L	20	19.5	98	70-130	
1,2,4-Trimethylbenzene	ug/L	20	20.1	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.9	98	70-130	N2
1,2-Dibromoethane (EDB)	ug/L	20	19.9	100	70-130	N2
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	18.2	91	70-130	
1,2-Dichloropropane	ug/L	20	16.6	83	70-130	
1,3,5-Trimethylbenzene	ug/L	20	19.9	99	70-130	N2
1,3-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,3-Dichloropropane	ug/L	20	19.8	99	70-130	N2

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

LABORATORY CONTROL SAMPLE: 3422604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	20	19.5	98	70-130	
2,2-Dichloropropane	ug/L	20	18.4	92	70-130	
2-Chlorotoluene	ug/L	20	18.7	93	70-130	
4-Chlorotoluene	ug/L	20	18.9	94	70-130	
Benzene	ug/L	20	18.2	91	70-130	
Bromobenzene	ug/L	20	20.3	101	70-130	
Bromochloromethane	ug/L	20	19.6	98	70-130	
Bromodichloromethane	ug/L	20	19.2	96	70-130	
Bromoform	ug/L	20	22.0	110	70-130	
Bromomethane	ug/L	20	22.2	111	70-130	
Carbon tetrachloride	ug/L	20	19.5	97	70-130	
Chlorobenzene	ug/L	20	19.3	96	70-130	
Chloroethane	ug/L	20	19.4	97	70-130	
Chloroform	ug/L	20	18.8	94	70-130	
Chloromethane	ug/L	20	20.5	103	70-130	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	21.6	108	70-130	
Dibromomethane	ug/L	20	19.3	96	70-130	
Dichlorodifluoromethane	ug/L	20	19.1	96	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Hexachloro-1,3-butadiene	ug/L	20	20.5	103	70-130	
Isopropylbenzene (Cumene)	ug/L	20	19.4	97	70-130	
Methyl-tert-butyl ether	ug/L	20	18.4	92	70-130	
Methylene Chloride	ug/L	20	18.7	94	70-130	
n-Butylbenzene	ug/L	20	20.1	100	70-130	
n-Propylbenzene	ug/L	20	19.9	99	70-130	
Naphthalene	ug/L	20	20.3	101	70-130	
p-Isopropyltoluene	ug/L	20	19.6	98	70-130	N2
sec-Butylbenzene	ug/L	20	19.9	99	70-130	
Styrene	ug/L	20	20.2	101	70-130	
tert-Butylbenzene	ug/L	20	19.9	99	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	70-130	
Trichloroethene	ug/L	20	19.1	95	70-130	
Trichlorofluoromethane	ug/L	20	19.3	96	70-130	
Vinyl chloride	ug/L	20	18.0	90	70-130	
Xylene (Total)	ug/L	60	57.0	95	70-130	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			100	75-125	

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3422605 3422606												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40195702007 Result	Spike Conc.	Spike Conc.	MS Conc.							
1,1,1,2-Tetrachloroethane	ug/L	<0.12	20	20	20.4	21.4	102	107	70-130	5	20	
1,1,1-Trichloroethane	ug/L	<0.19	20	20	21.1	20.7	105	104	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	20	20	19.3	19.8	96	99	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.19	20	20	18.8	19.3	94	96	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.16	20	20	19.2	18.7	96	94	70-130	2	20	
1,1-Dichloroethene	ug/L	<0.19	20	20	20.9	20.1	105	100	70-130	4	20	
1,1-Dichloropropene	ug/L	<0.10	20	20	20.8	20.8	104	104	70-130	0	20	
1,2,3-Trichlorobenzene	ug/L	<0.25	20	20	20.9	21.8	105	109	70-130	4	20	
1,2,3-Trichloropropane	ug/L	<0.39	20	20	18.8	20.3	94	102	70-130	8	20	
1,2,4-Trichlorobenzene	ug/L	<0.19	20	20	20.6	21.3	103	107	70-130	3	20	
1,2,4-Trimethylbenzene	ug/L	<0.23	20	20	20.6	22.0	103	110	70-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	50	50	46.0	49.3	92	99	70-130	7	20	N2
1,2-Dibromoethane (EDB)	ug/L	<0.17	20	20	20.2	20.3	101	101	70-130	0	20	N2
1,2-Dichlorobenzene	ug/L	<0.18	20	20	20.1	21.4	101	107	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.13	20	20	18.5	18.5	93	93	70-130	0	20	
1,2-Dichloropropane	ug/L	<0.19	20	20	16.6	16.5	83	83	70-130	0	20	
1,3,5-Trimethylbenzene	ug/L	<0.15	20	20	20.1	21.5	101	108	70-130	7	20	N2
1,3-Dichlorobenzene	ug/L	<0.14	20	20	20.2	21.6	101	108	70-130	7	20	
1,3-Dichloropropane	ug/L	<0.11	20	20	20.1	20.2	101	101	70-130	0	20	N2
1,4-Dichlorobenzene	ug/L	<0.086	20	20	19.9	21.0	99	105	70-130	6	20	
2,2-Dichloropropane	ug/L	<0.16	20	20	19.3	19.4	97	97	70-130	1	20	
2-Chlorotoluene	ug/L	<0.086	20	20	19.0	20.2	95	101	70-130	6	20	
4-Chlorotoluene	ug/L	<0.093	20	20	19.1	20.3	96	101	70-130	6	20	
Benzene	ug/L	<0.12	20	20	19.3	18.7	96	94	70-130	3	20	
Bromobenzene	ug/L	<0.23	20	20	20.0	20.6	100	103	70-130	3	20	
Bromochloromethane	ug/L	<0.30	20	20	19.6	20.1	98	100	70-130	2	20	
Bromodichloromethane	ug/L	<0.15	20	20	19.3	19.3	96	97	70-130	0	20	
Bromoform	ug/L	<0.45	20	20	21.9	22.3	109	112	70-130	2	20	
Bromomethane	ug/L	<0.62	20	20	22.2	21.5	111	108	70-130	3	20	
Carbon tetrachloride	ug/L	<0.20	20	20	20.9	21.0	104	105	70-130	1	20	
Chlorobenzene	ug/L	<0.12	20	20	19.9	20.3	100	102	70-130	2	20	
Chloroethane	ug/L	<0.14	20	20	20.7	20.7	103	104	70-130	0	20	
Chloroform	ug/L	<0.31	20	20	19.5	19.2	97	96	70-130	2	20	
Chloromethane	ug/L	<0.15	20	20	20.6	19.3	103	97	70-130	6	20	
cis-1,2-Dichloroethene	ug/L	<0.14	20	20	19.3	18.5	96	93	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	<0.21	20	20	18.9	19.1	95	96	70-130	1	20	
Dibromochloromethane	ug/L	<0.24	20	20	21.3	22.2	106	111	70-130	4	20	
Dibromomethane	ug/L	<0.23	20	20	19.4	19.5	97	97	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.26	20	20	20.3	19.4	102	97	70-130	5	20	
Ethylbenzene	ug/L	<0.11	20	20	19.2	20.3	96	101	70-130	5	20	
Hexachloro-1,3-butadiene	ug/L	<0.28	20	20	23.1	21.8	116	109	70-130	6	20	
Isopropylbenzene (Cumene)	ug/L	<0.17	20	20	19.9	21.7	99	109	70-130	9	20	
Methyl-tert-butyl ether	ug/L	<0.17	20	20	18.8	19.3	94	96	70-130	2	20	
Methylene Chloride	ug/L	<0.44	20	20	18.9	19.0	95	95	70-130	0	20	

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Parameter	Units	40195702007		3422605		3422606		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
n-Butylbenzene	ug/L	<0.14	20	20	21.2	21.5	106	107	70-130	1	20			
n-Propylbenzene	ug/L	<0.13	20	20	20.2	21.9	101	109	70-130	8	20			
Naphthalene	ug/L	<0.18	20	20	19.9	22.2	100	111	70-130	11	20			
p-Isopropyltoluene	ug/L	<0.21	20	20	21.0	21.4	105	107	70-130	2	20	N2		
sec-Butylbenzene	ug/L	<0.20	20	20	21.0	21.6	105	108	70-130	3	20			
Styrene	ug/L	<0.18	20	20	20.5	21.3	102	107	70-130	4	20			
tert-Butylbenzene	ug/L	<0.14	20	20	20.5	21.8	103	109	70-130	6	20			
Tetrachloroethene	ug/L	<0.17	20	20	20.9	22.1	105	110	70-130	5	20			
Toluene	ug/L	<0.078	20	20	20.0	20.4	100	102	70-130	2	20			
trans-1,2-Dichloroethene	ug/L	<0.18	20	20	20.1	19.3	101	96	70-130	4	20			
trans-1,3-Dichloropropene	ug/L	<0.24	20	20	19.2	19.3	96	96	70-130	1	20			
Trichloroethene	ug/L	<0.12	20	20	20.3	19.9	102	99	70-130	2	20			
Trichlorofluoromethane	ug/L	<0.21	20	20	20.1	19.5	100	98	70-130	3	20			
Vinyl chloride	ug/L	<0.086	20	20	19.4	18.4	97	92	70-130	5	20			
Xylene (Total)	ug/L	<0.30	60	60	58.9	61.9	98	103	70-130	5	20			
1,2-Dichloroethane-d4 (S)	%						97	98	75-125					
4-Bromofluorobenzene (S)	%						101	99	75-125					
Toluene-d8 (S)	%						98	100	75-125					

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION
Pace Project No.: 40195701

QC Batch: 334845 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40195701001, 40195701002

METHOD BLANK: 1944758 Matrix: Water
Associated Lab Samples: 40195701001, 40195701002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/25/19 06:56	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/25/19 06:56	
Benzene	ug/L	<0.25	1.0	09/25/19 06:56	
Ethylbenzene	ug/L	<0.22	1.0	09/25/19 06:56	
m&p-Xylene	ug/L	<0.47	2.0	09/25/19 06:56	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/25/19 06:56	
Naphthalene	ug/L	<1.2	5.0	09/25/19 06:56	
o-Xylene	ug/L	<0.26	1.0	09/25/19 06:56	
Toluene	ug/L	<0.17	5.0	09/25/19 06:56	
4-Bromofluorobenzene (S)	%	87	70-130	09/25/19 06:56	
Dibromofluoromethane (S)	%	100	70-130	09/25/19 06:56	
Toluene-d8 (S)	%	96	70-130	09/25/19 06:56	

LABORATORY CONTROL SAMPLE: 1944759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	53.0	106	70-130	
1,3,5-Trimethylbenzene	ug/L	50	52.9	106	70-130	
Benzene	ug/L	50	45.9	92	70-130	
Ethylbenzene	ug/L	50	58.9	118	80-124	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	52.2	104	54-137	
Naphthalene	ug/L	50	53.4	107	70-130	
o-Xylene	ug/L	50	57.7	115	70-130	
Toluene	ug/L	50	56.5	113	80-126	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			89	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1945373 1945374

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40195701001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trimethylbenzene	ug/L	<0.84	50	50	48.5	47.0	97	94	70-130	3	20	
1,3,5-Trimethylbenzene	ug/L	<0.87	50	50	49.8	49.1	100	98	70-130	2	20	
Benzene	ug/L	<0.25	50	50	42.3	39.9	85	80	70-130	6	20	
Ethylbenzene	ug/L	<0.22	50	50	55.0	53.2	110	106	80-125	3	20	
m&p-Xylene	ug/L	<0.47	100	100	104	102	104	102	70-130	2	20	

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Parameter	Units	1945373			1945374			% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		40195701001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Methyl-tert-butyl ether	ug/L	<1.2	50	50	50.5	48.5	101	97	51-145	4	20			
Naphthalene	ug/L	<1.2	50	50	49.2	48.2	98	96	70-130	2	20			
o-Xylene	ug/L	<0.26	50	50	53.2	52.8	106	106	70-130	1	20			
Toluene	ug/L	<0.17	50	50	55.3	51.2	111	102	80-131	8	20			
4-Bromofluorobenzene (S)	%						105	98	70-130					
Dibromofluoromethane (S)	%						90	86	70-130					
Toluene-d8 (S)	%						109	105	70-130					

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

QC Batch: 334846 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
 Associated Lab Samples: 40195701003, 40195701004, 40195701005, 40195701006, 40195701007, 40195701008, 40195701009, 40195701010

METHOD BLANK: 1944760 Matrix: Water
 Associated Lab Samples: 40195701003, 40195701004, 40195701005, 40195701006, 40195701007, 40195701008, 40195701009, 40195701010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/25/19 17:23	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/25/19 17:23	
Benzene	ug/L	<0.25	1.0	09/25/19 17:23	
Ethylbenzene	ug/L	<0.22	1.0	09/25/19 17:23	
m&p-Xylene	ug/L	<0.47	2.0	09/25/19 17:23	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/25/19 17:23	
Naphthalene	ug/L	<1.2	5.0	09/25/19 17:23	
o-Xylene	ug/L	<0.26	1.0	09/25/19 17:23	
Toluene	ug/L	<0.17	5.0	09/25/19 17:23	
4-Bromofluorobenzene (S)	%	98	70-130	09/25/19 17:23	
Dibromofluoromethane (S)	%	107	70-130	09/25/19 17:23	
Toluene-d8 (S)	%	99	70-130	09/25/19 17:23	

LABORATORY CONTROL SAMPLE: 1944761

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	52.6	105	70-130	
Ethylbenzene	ug/L	50	53.3	107	80-124	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	46.1	92	54-137	
o-Xylene	ug/L	50	54.5	109	70-130	
Toluene	ug/L	50	52.3	105	80-126	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1945369 1945370

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40195703010 Result	Spike Conc.	Spike Conc.	Result							Result
Benzene	ug/L	<0.25	50	50	52.3	52.1	105	104	70-130	0	20	
Ethylbenzene	ug/L	<0.22	50	50	54.2	52.9	108	106	80-125	2	20	
m&p-Xylene	ug/L	<0.47	100	100	111	109	111	109	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.0	46.5	94	93	51-145	1	20	
o-Xylene	ug/L	<0.26	50	50	54.8	54.0	110	108	70-130	1	20	
Toluene	ug/L	<0.17	50	50	53.0	52.3	106	105	80-131	1	20	
4-Bromofluorobenzene (S)	%						100	101	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1945369 1945370												
Parameter	Units	40195703010 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Dibromofluoromethane (S)	%							105	106	70-130		
Toluene-d8 (S)	%							99	98	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6510 MOOSE JUNCTION

Pace Project No.: 40195701

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40195701011	MOOSE JCT POTABLE	EPA 524.2	635041		
40195701001	MW1	EPA 8260	334845		
40195701002	MW2	EPA 8260	334845		
40195701003	MW3	EPA 8260	334846		
40195701004	MW4	EPA 8260	334846		
40195701005	MW5R	EPA 8260	334846		
40195701006	MW6	EPA 8260	334846		
40195701007	MW7	EPA 8260	334846		
40195701008	MW8	EPA 8260	334846		
40195701009	MW9	EPA 8260	334846		
40195701010	MW10	EPA 8260	334846		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

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

Client Name: REI

Project # 40195701

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

Lab Lot# of pH paper:

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

Initial when completed:


Date/Time:

Pace Lab #	Glass							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN				
001																																					2.5 / 5 / 10
002																																					2.5 / 5 / 10
003																																					2.5 / 5 / 10
004																																					2.5 / 5 / 10
005																																					2.5 / 5 / 10
006																																					2.5 / 5 / 10
007																																					2.5 / 5 / 10
008																																					2.5 / 5 / 10
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014																																					2.5 / 5 / 10
015																																					2.5 / 5 / 10
016																																					2.5 / 5 / 10
017																																					2.5 / 5 / 10
018																																					2.5 / 5 / 10
019																																					2.5 / 5 / 10
020																																					2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____

Headspace in VOA Vials (>6mm) Yes No N/A *If yes look in headspace column


AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	SP5T 120 mL plastic Na Thiosulfate
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		ZPLC ziploc bag
			GN:

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: REI Project #: **WO#: 40195701**
 Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____
 Tracking #: 21830391-2
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used SR - NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 20 /Corr: _____
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C.

WO#: 40195701




40195701

Person examining contents:
 Date: 9/21/19
 Initials: PR

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

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

Project Manager Review:  Date: 9-23-19
 Page 2 of 24